MINIPACK

Model No.	GTCP331-200ER
Part No.	3800298-1
Serial No.	P-2697

CONDITION	Tested	TSN	19,975
TAGGED BY	Unique Airmotive	CSN	26,224
TAG DATE	18/May/2020	TSR	1,890
TRACE TO	Royal Air Maroc	CSR	2,261
LOCATION	South Carolina		

LLPs

T1 LLP	4,556	CR
T2 LLP	2,043	CR
T3 LLP	10,590	CR

Additional Information:

INCLUDED
☑ BOX/STAND

GENERATOR
☐ YES ☑ NO

PRESERVATION
☐ 6 MO ☐ 12 MO ☑ 24 MO

APPLICATION
757/767

AVAILABILITY
In-Stock

TRANSACTION TYPE
☑ LEASE ☑ EXCHANGE
☑ OUTRIGHT

More about your APU

9100 S. Dadeland Blvd., Suite 1500, Miami, FL 33156 +1-305-271-6650
info@longreach.com www.longreach.com

Non Incident Statement

9100 S. Dadeland Blvd., Suite 1500, Miami, FL 33156 +1-305-271-6650
info@longreach.com www.longreach.com

1. ATA SPEC 106 MATERIAL CERTIFICATION FORM

2. Seller's Name:	3. Reference No.
الخطوط الملكية المغربية royal air maroc ROYAL AIR MAROC	**147-04335951**

4. Organisation: ROYAL AIR MAROC Address: **DIRECTION TECHNIQUE** **DEPARTEMENT LOGISTIQUE INDUSTRIEL** **GESTION DES EQUIPEMENTS** **AEROPORT MOHAMED V** **CASABLANCA MAROC**	Phone #: (212) (522) 499 247 FAX #: (212) (522) 499 695 SITA / Wire Code: CMNUVAT Email : rgadrouz@royalairmaroc.com Status: Spares, Repair, Lease & Exchange
5A. Contract No. (Seller) RAM PO # *L0005215*	5B. Contract No. (Buyer) **MIAMI**

6. Item	7. Description	8a. Manufacturer	8b. Part No.	9. Eligibility	10. Qty.	11. Serial/ Batch No.	12. Status/ Work
1	*APU*		*3800298-1*		*01*	*P-2697*	*A/R*

13A. Remarks
TSN 59689
CSN 13098
REMOVED FROM A/C : CN-RNS
On the basis of information obtained from the supplier in block 13B. The above referenced part(s) or material was/were not obtained from any US Government or Military Source and was/were not subjected to severe stress or heat or immersed in salt water.

13B. Obtained From	13C. Last Cert. Agency
STOCK	
14. **New Parts/Material Verification:** The following signature attests that the part(s) or material(s) identified above was (were) manufactured by a FAA Production Approval Holder (PAH), or to an industry or commercial standard.	18. **Used, Repaired or Overhauled Parts Verification:** The following signature attests that the documentation specified above or attached is accurate with regard to the item(s) described.
15. Signature	19. Signature Gadrouz Rachid
16. Name / 17. Date	20. Name GADROUZ / 21. Date 12-Apr-16

NOTICE: The above signature binds the seller and SIGNER to the accuracy of the information provided in the Form. Should the information provided in this form contain inaccuracies or misrepresentations, the signer and SELLER may be liable for damages and are subject to criminal prosecution under state and federal law.

LLP Summary

9100 S. Dadeland Blvd., Suite 1500, Miami, FL 33156 +1-305-271-6650
info@longreach.com www.longreach.com

الخطوط الملكية المغربية
royal air maroc

LIFE LIMITED PARTS STATUS

TT:	19915,00
TC:	26224,00
TT at last SV:	UNK
TC at last SV:	UNK
TSLSV :	UNK
CSLSV :	UNK

Customer : RAM
APU P/N: 3800298-1
APU Serial No.: P-2697

As of :

NOMENCLATURE	PART NUMBER	PSN		PCSN	LMIT VALUE	REMAINING VALUE
T3 WEEL ASSY	3840022-4	734502190		14410,00	25000	10590
DISK T2 TURBINE	3840007-1	350101589		17957,00	20000	2043
DISK T1 TURBINE	3840019-1	135703907		15444,00	20000	4556

SHOP VISIT
Unique Airmotive
May 2020

9100 S. Dadeland Blvd., Suite 1500, Miami, FL 33156 +1-305-271-6650
info@longreach.com www.longreach.com

1. Approving Civil Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	2020145

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
Unique Airmotive Services, L.L.C., 175 Bonum Road, Lake Wylie, S.C. 29710 (3UAR147C) Phone: (803) 831-9390, Fax: (803) 831-2573	202431 / 9316

6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status / Work:
001	Engine, Gas Turbine	3800298-1	1	P-2697	INSPECTED

12. Remarks:

This component has been inspected in accordance with Honeywell publications manual ATA 49-22-13 revision 26, dated May 28, 2019. All flammable liquids have been purged and unit was preserved with MIL-PRF-6081 grade 10/10 lubricant for shipping and preservation purposes. This unit complies with Boeing 767 CMP document for ETOPS, D6T11605 and Boeing 757 CMP document for ETOPS, D011N006.

Time Since New: 19,915 / Cycles Since New: 26,224

Airworthiness Directive 85-14-02 is not applicable due to Cooling Fan P/N 3616959-6 installed.

Certifies that the work specified in block 11 /12 was carried out in accordance with EASA Part 145 and in respect to that work the component is considered ready for release to service under EASA Part 145 approval number EASA.145.6499.

13a. Certifies the items identified above were manufactured in conformity to:	14a. ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 12.
☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 12.	Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

13b. Authorized Signature:	13c. Approval / Authorization No.:	14b. Authorized Signature:	14c. Approval / Certificate No.:
		Jesse K Russo	3UAR147C
13d. Name (Typed or Printed):	**13e. Date (dd/mmm/yyyy):**	**14d. Name (Typed or Printed):**	**14e. Date (dd/mmm/yyyy):**
		Jesse K. Russo	**18 MAY 2020**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.

Where the user / installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user / installer ensures that his / her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.

Statement in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user / installer before the aircraft may be flown.

UNIQUE AIRMOTIVE SERVICES LLC
175 BONUM ROAD LAKE WYLIE, SC 29710
PHONE: 803-831-9390 FAX: 803-831-2573
WWW.UNIQUEAIRMOTIVE.COM
FAA APPROVED REPAIR STATION# 3UAR147C
EASA APPROVAL CERTIFICATE# EASA.145.6499

WORK ORDER INSPECTION REPORT

WORKSCOPE	: INSPECTED
T.S.N.	: 19,915
C.S.N.	: 26,224
T.S.O.	: N/A
C.S.O.	: N/A
For Customer	: TAG AERO

W/O No. 202431

P/N 3800298-1

Cust P.O.	: RO: 9316	P/N	: 3800298-1	S/N	: P-2697
Our Ref	: WO: 202431	Des	: AUXILIARY POWER UNIT	W/O	: 202431
Your Ref	: RO: 9316	S/	:	P/O	: RO: 9316
	:	MF	:	Manual	:
	:	Qty	: 1 Cond As: SV	Revision	:
Completed	: 3800298-1	S/N	:	Into Bin L	: [w/h]

Company	: 1	Divisio	:	Departm	:		
Order Date	: May-12-2020	Received	: May-12-2020	Due Date	:	Print Date	:

Repair/Service WORK ORDER No. 202431

Reported By Customer
VERIFY P/N AND S/N AS RECEIVED. WORKSCOPE: EVALUATE FOR RETURN TO SERVICE.
Preliminary Insp.
VERIFIED P/N 3800298-1 S/N P-2697 MODEL GTCP331-200ER. UNIT RECEIVED IN GOOD GENERAL CONDITION WITH NO VISUAL TRANSIT DAMAGE NOTED. PRELIMINARY BORESCOPE AND RECEIVING INSPECTIONS WERE PERFORMED WITH THE FOLLOWING RESULTS: 1) COMPRESSOR SECTION, CLEAN NO VISUAL DAMAGE, 2) LOAD COMPRESSOR, CLEAN NO VISUAL DAMAGE, 3) FIRST STAGE STATOR AND TURBINE BLADES CLEAN NO VISUAL DAMAGE, 4) THIRD STAGE TURBINE BLADES, CLEAN NO VISUAL DAMAGE, 5) MAGNETIC CHIP DETECTORS AND FILTERS, CLEAN NO CONTAMINATION NOTED, 6) OIL PUMP, FCU AND GENERATOR DELTA "P" INDICATORS NOT EXTENDED. APU WAS FITTED FOR FULL PERFORMANCE CHECK WITH ALL PARAMETERS WITHIN ACCEPTABLE LIMITS.
Corrective Action
THIS COMPONENT HAS BEEN INSPECTED AND FUNCTIONALLY TESTED IN ACCORDANCE WITH HONEYWELL PUBLICATIONS MANUAL ATA 49-22-13 REVISION 26, DATED MAY 28, 2019. DETAILS OF WORK PERFORMED AT THIS SHOP VISIT ARE AS FOLLOWS:

APU WAS FITTED FOR FULL PERFORMANCE AND OPERATIONAL CHECK WITH ALL PARAMETERS FOR BLEED PRESSURE AND AIR FLOW WITH IN ACCEPTABLE LIMITS. ALL FLAMMABLE LIQUIDS HAVE BEEN PURGED AND

Continued on next p

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User #:[2012.91233] Ver 2019.01.01 Build 9

UNIQUE AIRMOTIVE SERVICES LLC
175 BONUM ROAD LAKE WYLIE, SC 29710
PHONE: 803-831-9390 FAX: 803-831-2573
WWW.UNIQUEAIRMOTIVE.COM
FAA APPROVED REPAIR STATION# 3UAR147C
EASA APPROVAL CERTIFICATE# EASA.145.6499

WORK ORDER INSPECTION REPORT

Repair/Service WORK ORDER No. 202431

UNIT WAS PRESERVED WITH MIL-PRF-6081 GRADE 10/10 LUBRICANT FOR SHIPPING AND PRESERVATION PURPOSES.

1ST STAGE TURBINE DISK P/N 3840019-1 S/N 135703907 CYCLES SINCE NEW: 15,444 / CYCLES REMAINING: 4,556

2ND STAGE TURBINE DISK P/N 3840007-1 S/N 350101589 CYCLES SINCE NEW: 17,957 / CYCLES REMAINING: 2,043

3RD STAGE TURBINE DISK P/N 3840022-4 S/N 734502190 CYCLES SINCE NEW: 14,410 / CYCLES REMAINING: 10,590

A/D's and S/B's

AIRWORTHINESS DIRECTIVE 85-14-02 IS NOT APPLICABLE DUE TO COOLING FAN P/N 3616959-6 INSTALLED.

Authorized Signat Jesse K Russo Nam Jesse K Russo Date 18 MAY 2020

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Ser #:[2012.91233] Ver 2019.01.01 Build 9

Unique Airmotive Services, L.L.C.

Preliminary Receiving and Inspection Form

FAA CRS# 3UAR147C / EASA.145.6499

Customer:	TAG AERO	**Part No.:**	3800298-1	**W.O. No.:**	202431
P.O. No.:	9316	**Serial No.:**	P-2697	**Model No.:**	GTCP331-200ER

1.0 Receiving Inspection:

Log Book Received:	☒ NO	☐ YES		
Customer Supplied:	☒ NO	☐ YES		
Shipping Container is a:	Wooden box			
Shipping Container damage:	☒ NO	☐ YES		
A.P.U. external damage:	☒ NO	☐ YES		
A.P.U. Missing parts:	☒ NO	☐ YES		
Missing Q.E.C. Items:	☐ NO	☒ YES	Generator	
Engine Rotation:	☒ Smooth	☐ Rough	☐ Seized	
Oil Condition:	☒ Normal	☐ Burnt	☐ No-Oil	☐ Contaminated
I.G.V. Pull Test:	☒ Smooth	☐ Rough	☐ Seized	8 Pounds of pull
Fan Gears:	☒ Normal Light wear		☐ Worn	☐ Damaged

Delta "P" Indicators

Oil Pump Delta "P" extended:	☒ NO	☐ YES
Fuel Control Delta "P" extended:	☒ NO	☐ YES
Gen. Scavenge Filter Delta "P" extended:	☒ NO	☐ YES

Filters

Oil Pump Contamination:	☒ None	☐ Light	☐ Moderate	☐ Heavy
Fuel Control Contamination:	☒ None	☐ Light	☐ Moderate	☐ Heavy
Gen. Scavenge Contamination:	☒ None	☐ Light	☐ Moderate	☐ Heavy

Magnetic Chip Detectors

Gearbox Chip Detector:	☒ None	☐ Light	☐ Moderate	☐ Heavy	
Mid Frame Chip Detector:	☒ None	☐ Light	☐ Moderate	☐ Heavy	☐ N/A -250H
Aft Scav. Pump Chip Detector:	☒ None	☐ Light	☐ Moderate	☐ Heavy	☐ N/A -250H
Generator Chip Detector:	☒ None	☐ Light	☐ Moderate	☐ Heavy	☐ N/A -250H

Initials: CWB

Work Order No.:	202431	Serial No.:	P-2697

2.0 Borescope Findings:

A.P.U. Borescoped	☐ NO	☒ YES
1st Stage Turbine Stator:	☒ Acceptable	☐ Damaged
1st Stage Turbine Wheel Blades:	☒ Acceptable	☐ Damaged
1st Stage Compressor Impeller:	☒ Acceptable	☐ Damaged
2nd Stage Compressor Impeller:	☒ Acceptable	☐ Damaged
Load Compressor Impeller:	☒ Acceptable	☐ Damaged
3rd Stage Turbine Wheel:	☒ Acceptable	☐ Damaged
Combustion Chamber:	☒ Acceptable	☐ Damaged
Load Compressor & Power Section Ball Bearings:	☒ Acceptable	☐ Damaged

Remarks:

Data Plate Information:

Gearbox Assembly Data plate:	P/N: 3862180-13	S/N: P-1536
Load Compressor Data Plate:	P/N: 3804002-11	S/N: P-1985
Power Section Data Plate:	P/N: 3801003-8	S/N: P1392

3.0 Incoming Functional Test Results

☐ A.P.U. was not pre-tested. See remarks below.
☐ A.P.U. was not pre-tested due to major internal damage.
☐ A.P.U. was not pre-tested due to major external damage.
☐ A.P.U. was not pre-tested due to metal contamination in oil.
☒ A.P.U. was pre-tested. Results are within acceptable manual specifications.
☐ A.P.U. was pre-tested. The following results exceed allowable specifications:

Remarks: All parameters within acceptable limits

Initials: CWB

Work Order No.:	202431	Serial No.:	P-2697

4.0 Evaluation

Gearbox Condition

- ☐ Metal Contamination
- ☐ Bearing Failure
- ☐ Gear Failure
- ☐ Oil Leak
- ☐ Liners Worn/Scored
- ☐ High Hours/Cycles
- ☐ Requires Modification
- ☐ Customer Request
- ☐ Other

Gearbox Recommended Workscope:

☐ Repair ☐ Overhaul ☒ Visually Accept ☒ Not Disassembled

Load Compressor Condition

- ☐ Strike Damage
- ☐ Bearing Failure
- ☐ IGV Wear/Failure
- ☐ Rub Damage
- ☐ Low Performance
- ☐ Surge Margin
- ☐ Oil Leak
- ☐ Other

Load Compressor Recommended Workscope:

☐ Repair ☐ Overhaul ☒ Visually Accept ☒ Not Disassembled

Power Section Condition

- ☐ Strike Damage
- ☐ Bearing Failure
- ☐ Blade Shift
- ☐ Rub Damage
- ☐ High Hours/Cycles
- ☐ Hot Section Deteriorated
- ☐ High EGT
- ☐ Oil Leak
- ☐ Other

Power Section Recommended Workscope:

☐ Repair ☐ Overhaul ☐ HSI ☒ Visually Accept ☒ Not Disassembled

Line Replaceable Units:

☐ Route for Test and Repair as Necessary
☒ Functional test on engine

Initials: CWB

Work Order No.:	202431	Serial No.:	P-2697

Component / Subassembly Receiving Inspection

FAA CRS# 3UAR147C / EASA.145.6499

	Removed			Installed	
Description	Part Number	Serial No.	N/C*	Part Number	Serial No.
Fuel Control Unit	3882500-17	A2072	☒		
Cooling fan	3616959-6	P-2098	☒		
Surge Control Valve	979806-12	744C	☒		
Load Control Valve	N/A		☒		
Starter	519858-8	11-2379	☒		
Oil Pump	3880190-10	A-4133	☒		
Shuttle Valve	3616848-2	0951	☒		
LOP Switch	21C1-6-18	C010090	☒		
Wiring Harness	3888123-5	NSN	☒		
Oil Cooler	160176-1	28-1007	☒		
IGV Actuator	3885167-1	0097	☒		
Fuel Flow Divider	3882550-3	A2246	☒		
Ignition Exciter	3888058-7	130679	☒		
Variable Volume Chamber	3290594-1	341	☒		
Compressor Inlet Pressure Sensor	3876035-5	6119-1A-93	☒		
Flow Sensor Module	3614400-8	2039	☒		
Delta P Switch	3876084-1	NSN	☒		
Oil Temperature Valve	158935-3	19-1806	☒		
Gearbox Oil Level Transmitter	3876059-2	UCN128580	☒		
Gearbox Regulating Valve	3289504-3	46458R	☒		
Primary Fuel Manifold	3882491-3	N/A	☒		
Secondary Fuel Manifold	3882492-5	N/A	☒		

N/C*= Checking this box certifies no change in part number or serial number shipped.

Initials: CWB

UNIQUE AIRMOTIVE SERVICES LLC

May 18, 2020

Subject: **APU P/N 3800298-1 GTCP331-200ER S/N P-2697**
Ref: Work Order 202431

To whom it may concern,

This letter is to confirm that a post-test borescope has been performed to the subject APU with no visual defects noted. The Compressor and Turbine Sections have been inspected with no visible damage present.

Please feel free to contact me should you have any additional questions or concerns.

Jesse K Russo

Jesse K. Russo
Quality Manager, Unique Airmotive Services, L.L.C.

175 BONUM ROAD
LAKE WYLIE, S.C. 29710
PH: 803-831-9390 / FX: 803-831-2573

UAS UNIQUE AIRMOTIVE SERVICES LLC

May 18, 2020

APU P/N 3800298-1 GTCP331-200ER S/N P-2697 Ref: Work Order 202431

To Whom It May Concern:

This letter is to confirm that the above mentioned APU serial number P-2697 fuel system was purged on May 18, 2020 and contains no hazardous liquids or chemicals.

This unit contains only the following fluids:

Lubricant MIL-PRF-6081 Royal MSDS #750.004-2 and/ or Turbo Oil 2380 / Exxon #217556-02380.

Thank you,

Jesse K. Russo
Quality Manger, Unique Airmotive Services, LLC

175 Bonum Road
Lake Wylie, South Carolina 29710
Ph: 803-831-9390 / Fx: 803-831-2573

UNIQUE AIRMOTIVE SERVICES LLC
175 BONUM ROAD LAKE WYLIE, SC 29710
PHONE: 803-831-9390 FAX: 803-831-2573
WWW.UNIQUEAIRMOTIVE.COM
FAA APPROVED REPAIR STATION# 3UAR147C
EASA APPROVAL CERTIFICATE# EASA.145.6499

WORK ORDER INSPECTION REPORT

WORKSCOPE	: INSPECTED
T.S.N.	: 19,915
C.S.N.	: 26,224
T.S.O.	: N/A
C.S.O.	: N/A
For Customer	: TAG AERO

W/O No. 202431

P/N 3800298-1

Cust P.O.	: RO: 9316	P/N	: 3800298-1	S/N	: P-2697
Our Ref	: WO: 202431	Des	: AUXILIARY POWER UNIT	W/O	: 202431
Your Ref	: RO: 9316	S/	:	P/O	: RO: 9316
	:	MF	:	Manual	:
	:	Qty	: 1 Cond As: SV	Revision	:
Completed	: 3800298-1	S/N	:	Into Bin L	: [w/h]

Company	: 1	Divisio	:	Departm	:		
Order Date	: May-12-2020	Received	: May-12-2020	Due Date	:	Print Date	:

Repair/Service WORK ORDER No. 202431

Reported By Customer
VERIFY P/N AND S/N AS RECEIVED. WORKSCOPE: EVALUATE FOR RETURN TO SERVICE.
Preliminary Insp.
VERIFIED P/N 3800298-1 S/N P-2697 MODEL GTCP331-200ER. UNIT RECEIVED IN GOOD GENERAL CONDITION WITH NO VISUAL TRANSIT DAMAGE NOTED. PRELIMINARY BORESCOPE AND RECEIVING INSPECTIONS WERE PERFORMED WITH THE FOLLOWING RESULTS: 1) COMPRESSOR SECTION, CLEAN NO VISUAL DAMAGE, 2) LOAD COMPRESSOR, CLEAN NO VISUAL DAMAGE, 3) FIRST STAGE STATOR AND TURBINE BLADES CLEAN NO VISUAL DAMAGE, 4) THIRD STAGE TURBINE BLADES, CLEAN NO VISUAL DAMAGE, 5) MAGNETIC CHIP DETECTORS AND FILTERS, CLEAN NO CONTAMINATION NOTED, 6) OIL PUMP, FCU AND GENERATOR DELTA "P" INDICATORS NOT EXTENDED. APU WAS FITTED FOR FULL PERFORMANCE CHECK WITH ALL PARAMETERS WITHIN ACCEPTABLE LIMITS.
Corrective Action
THIS COMPONENT HAS BEEN INSPECTED AND FUNCTIONALLY TESTED IN ACCORDANCE WITH HONEYWELL PUBLICATIONS MANUAL ATA 49-22-13 REVISION 26, DATED MAY 28, 2019. DETAILS OF WORK PERFORMED AT THIS SHOP VISIT ARE AS FOLLOWS:

APU WAS FITTED FOR FULL PERFORMANCE AND OPERATIONAL CHECK WITH ALL PARAMETERS FOR BLEED PRESSURE AND AIR FLOW WITH IN ACCEPTABLE LIMITS. ALL FLAMMABLE LIQUIDS HAVE BEEN PURGED AND

Continued on next p

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User #:[2012.91233] Ver 2019.01.01 Build 9

Shop Visit
Unique Airmotive Services – July 2019

9100 S. Dadeland Blvd., Suite 1500, Miami, FL 33156 +1-305-271-6650
info@longreach.com www.longreach.com

1. Approving Civil Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	2019319

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
Unique Airmotive Services, L.L.C., 175 Bonum Road, Lake Wylie, S.C. 29710 (3UAR147C) Phone: (803) 831-9390, Fax: (803) 831-2573	200917 / 50727

6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status / Work:
001	Engine, Gas Turbine	3800298-1	1	P-2697	Inspected

12. Remarks:

This component has been repaired in accordance with Honeywell publications manual ATA 49-22-13 revision 26, dated May 28, 2019. All flammable liquids have been purged and unit was preserved with MIL-PRF-6081 grade 10/10 lubricant for shipping and preservation purposes.

Time Since New: 19915 / Cycles Since New: 26224

Airworthiness Directive 85-14-02 is not applicable due to Cooling Fan P/N 3616959-6 installed.

Certifies that the work specified in block 11 /12 was carried out in accordance with EASA Part 145 and in respect to that work the component is considered ready for release to service under EASA Part 145 approval number EASA.145.6499.

13a. Certifies the items identified above were manufactured in conformity to:	14a. ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 12.
☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 12.	Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

13b. Authorized Signature:	13c. Approval / Authorization No.:	14b. Authorized Signature:	14c. Approval / Certificate No.:
			3UAR147C
13d. Name (Typed or Printed):	**13e. Date (dd/mmm/yyyy):**	**14d. Name (Typed or Printed):**	**14e. Date (dd/mmm/yyyy):**
		Roger J. Brochu	29 Jul 2019

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.

Where the user / installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user / installer ensures that his / her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.

Statement in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user / installer before the aircraft may be flown.

UNIQUE AIRMOTIVE SERVICES LLC
175 BONUM ROAD LAKE WYLIE, SC 29710
PHONE: 803-831-9390 FAX: 803-831-2573
WWW.UNIQUEAIRMOTIVE.COM
FAA APPROVED REPAIR STATION# 3UAR147C
EASA APPROVAL CERTIFICATE# EASA.145.6499

WORK ORDER INSPECTION REPORT

WORKSCOPE	: INSPECTED
T.S.N.	: 19915
C.S.N.	: 26224
T.S.O.	: N/A
C.S.O.	: N/A

W/O No. 200917

P/N 3800298-1

For Customer	: MIAMI INTER AIR, INC.
S.O. No.	: 201383 Line No. : 1

Cust P.O.	: 50727	P/N	: 3800298-1	S/N	: P-2697
Our Ref	: WO 200917	Desc	: AUXILIARY POWER UNIT	W/O	:
Your Ref	: 50727	S/N	:	P/O	: 50727
	:	MFG	:	Manual	:
	:	Qty	: 1 Cond As: SV	Revision	:
Completed P/N	: 3800298-1	S/N As	:	Into Bin Loc	:

Company	: 1	Division	:	Department	:		
Order Date	: May-01-2019	Received Date	: May-01-2019	Due Date	:	Print Date	: Jul-29-2019

Repair WORK ORDER No. 200917

Reported By Customer
VERIFY P/N AND S/N AS RECEIVED. WORKSCOPE: EVALUATE FOR RETURN TO SERVICE.
Preliminary Insp.
VERIFIED P/N 3800298-1 S/N P-2697 MODEL GTCP331-200ER. UNIT RECEIVED IN GOOD GENERAL CONDITION WITH NO VISUAL TRANSIT DAMAGE NOTED. PRELIMINARY BORESCOPE AND RECEIPT INSPECTIONS WERE PERFORMED WITH THE FOLLOWING RESULTS: 1) COMPRESSOR SECTION, CLEAN NO VISUAL DAMAGE, 2) LOAD COMPRESSOR, CLEAN NO VISUAL DAMAGE, 3) FIRST STAGE STATOR AND TURBINE BLADES CLEAN NO VISUAL DAMAGE, 4) THIRD STAGE TURBINE BLADES, CLEAN NO VISUAL DAMAGE, 5) MAGNETIC CHIP DETECTORS AND FILTERS, CLEAN NO CONTAMINATION NOTED, 6) OIL PUMP, FCU AND GENERATOR DELTA "P" INDICATORS NOT EXTENDED. APU WAS FITTED FOR FULL PERFORMANCE CHECK WITH ALL PARAMETERS WITHIN ACCEPTABLE LIMITS.
Corrective Action
THIS COMPONENT HAS BEEN INSPECTED AND FUNCTIONALLY TESTED IN ACCORDANCE WITH HONEYWELL PUBLICATIONS MANUAL ATA 49-22-13 REVISION 21, DATED JANUARY 15, 2015. DETAILS OF WORK PERFORMED AT THIS SHOP VISIT ARE AS FOLLOWS:

APU WAS FITTED FOR FULL PERFORMANCE AND OPERATIONAL CHECK WITH ALL PARAMETERS FOR BLEED PRESSURE AND AIR FLOW WIHTIN ACCEPTABLE LIMITS. ALL FLAMMABLE LIQUIDS HAVE BEEN PURGED AND UNIT WAS PRESERVED WITH MIL-PRF-6081 GRADE 10/10 LUBRICANT FOR SHIPPING AND PRESERAVTION PURPOSES.

DISK-APU 1ST STAGE TURBINE P/N 3840019-1 S/N 135703907CYCLES SINCE NEW: 15444 / CYCLES REMAINING: 4556

Continued on next page...

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UNIQUE AIRMOTIVE SERVICES LLC
175 BONUM ROAD LAKE WYLIE, SC 29710
PHONE: 803-831-9390 FAX: 803-831-2573
WWW.UNIQUEAIRMOTIVE.COM
FAA APPROVED REPAIR STATION# 3UAR147C
EASA APPROVAL CERTIFICATE# EASA.145.6499

WORK ORDER INSPECTION REPORT

Repair WORK ORDER No. 200917

DISK-APU 2ND STAGE TURBINE P/N 3840007-1 S/N 350101589 CYCLES SINCE NEW: 17957 / CYCLES REMAINING: 2043

DISK-APU 3RD STAGE TURBINE P/N 3840022-4 S/N 734502190 CYCLES SINCE NEW: 14410 / CYCLES REMAINING: 10590

A/D's and S/B's

AIRWORTHINESS DIRECTIVE 85-14-02 IS NOT APPLICABLE DUE TO COOLING FAN P/N 3616959-6 INSTALLED.

Authorized Signature : _____ Name : R. Brochu Date : 29JUL2019

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Unique Airmotive Services, L.L.C.

Preliminary Receiving and Inspection Form

FAA CRS# 3UAR147C / EASA.145.6499

Customer:	Miami Inter Air	**Part No.:**	3800298-1	**W.O. No.:**	200917
P.O. No.:	50727	**Serial No.:**	P-2697	**Model No.:**	GTCP331-200ER

1.0 Receiving Inspection:

Log Book Received:	☒ NO	☐ YES		
Customer Supplied:	☒ NO	☐ YES		
Shipping Container is a:	Wooden box			
Shipping Container damage:	☐ NO	☒ YES		
A.P.U. external damage:	☒ NO	☐ YES		
A.P.U. Missing parts:	☒ NO	☐ YES		
Missing Q.E.C. Items:	☒ NO	☐ YES		
Engine Rotation:	☒ Smooth	☐ Rough	☐ Seized	
Oil Condition:	☒ Normal	☐ Burnt	☐ No-Oil	☐ Contaminated
I.G.V. Pull Test:	☒ Smooth	☐ Rough	☐ Seized	8 Pounds of pull
Fan Gears:	☒ Normal Light wear		☐ Worn	☐ Damaged

Delta "P" Indicators

Oil Pump Delta "P" extended:	☒ NO	☐ YES
Fuel Control Delta "P" extended:	☒ NO	☐ YES
Gen. Scavenge Filter Delta "P" extended:	☒ NO	☐ YES

Filters

Oil Pump Contamination:	☒ None	☐ Light	☐ Moderate	☐ Heavy
Fuel Control Contamination:	☒ None	☐ Light	☐ Moderate	☐ Heavy
Gen. Scavenge Contamination:	☒ None	☐ Light	☐ Moderate	☐ Heavy

Magnetic Chip Detectors

Gearbox Chip Detector:	☒ None	☐ Light	☐ Moderate	☐ Heavy	
Mid Frame Chip Detector:	☒ None	☐ Light	☐ Moderate	☐ Heavy	☐ N/A -250H
Aft Scav. Pump Chip Detector:	☒ None	☐ Light	☐ Moderate	☐ Heavy	☐ N/A -250H
Generator Chip Detector:	☒ None	☐ Light	☐ Moderate	☐ Heavy	☐ N/A -250H

Initials: CWB

Work Order No.:	200917	Serial No.:	P-2697

2.0 Borescope Findings:

A.P.U. Borescoped	☐ NO	☒ YES
1st Stage Turbine Stator:	☒ Acceptable	☐ Damaged
1st Stage Turbine Wheel Blades:	☒ Acceptable	☐ Damaged
1st Stage Compressor Impeller:	☒ Acceptable	☐ Damaged
2nd Stage Compressor Impeller:	☒ Acceptable	☐ Damaged
Load Compressor Impeller:	☒ Acceptable	☐ Damaged
3rd Stage Turbine Wheel:	☒ Acceptable	☐ Damaged
Combustion Chamber:	☒ Acceptable	☐ Damaged
Load Compressor & Power Section Ball Bearings:	☒ Acceptable	☐ Damaged

Remarks:

Data Plate Information:

Gearbox Assembly Data plate:	P/N: 3862180-21	S/N: P-1858
Load Compressor Data Plate:	P/N: 3804002-11	S/N: P-2370
Power Section Data Plate:	P/N: 3801003-8	S/N: P-2354

3.0 Incoming Functional Test Results

☐ A.P.U. was not pre-tested. See remarks below.
☐ A.P.U. was not pre-tested due to major internal damage.
☐ A.P.U. was not pre-tested due to major external damage.
☐ A.P.U. was not pre-tested due to metal contamination in oil.
☒ A.P.U. was pre-tested. Results are within acceptable manual specifications.
☐ A.P.U. was pre-tested. The following results exceed allowable specifications:

Remarks: All parameters within acceptable limits

Initials: CWB

Work Order No.:	200917	Serial No.:	P-2697

4.0 Evaluation

Gearbox Condition

- ☐ Metal Contamination
- ☐ Bearing Failure
- ☐ Gear Failure
- ☐ Oil Leak
- ☐ Liners Worn/Scored
- ☐ High Hours/Cycles
- ☐ Requires Modification
- ☐ Customer Request
- ☐ Other

Gearbox Recommended Workscope:

☐ Repair ☐ Overhaul ☒ Visually Accept ☒ Not Disassembled

Load Compressor Condition

- ☐ Strike Damage
- ☐ Bearing Failure
- ☐ IGV Wear/Failure
- ☐ Rub Damage
- ☐ Low Performance
- ☐ Surge Margin
- ☐ Oil Leak
- ☐ Other

Load Compressor Recommended Workscope:

☐ Repair ☐ Overhaul ☒ Visually Accept ☒ Not Disassembled

Power Section Condition

- ☐ Strike Damage
- ☐ Bearing Failure
- ☐ Blade Shift
- ☐ Rub Damage
- ☐ High Hours/Cycles
- ☐ Hot Section Deteriorated
- ☐ High EGT
- ☐ Oil Leak
- ☐ Other

Power Section Recommended Workscope:

☐ Repair ☐ Overhaul ☐ HSI ☒ Visually Accept ☒ Not Disassembled

Line Replaceable Units:

☐ Route for Test and Repair as Necessary
☒ Functional test on engine

Initials: CWB

Work Order No.:	200917	Serial No.:	P-2697

Component / Subassembly Receiving Inspection

FAA CRS# 3UAR147C / EASA.145.6499

	Removed			Installed	
Description	Part Number	Serial No.	N/C*	Part Number	Serial No.
Fuel Control Unit	3882500-17	A2672	☒		
Cooling fan	3616959-6	P-2098	☒		
Surge Control Valve	979806-11	P-3094C	☒		
Load Control Valve	N/A		☒		
Starter	519858-8	11-2379	☒		
Oil Pump	3880190-10	A-4133	☒		
Shuttle Valve	3616848-2	NSN	☒		
LOP Switch	6876024-5	1173T0337-01	☒		
Wiring Harness	3888123-5	NSN	☒		
Oil Cooler	160176-1	28-1007	☒		
IGV Actuator	3885167-1	0097	☒		
Fuel Flow Divider	3882550-3	A2246	☒		
Ignition Exciter	3888058-7	130679	☒		
Variable Volume Chamber	3290594-1	NSN	☒		
Compressor Inlet Pressure Sensor	3876035-5	6119-2A-93	☒		
Flow Sensor Module	3614400-7	UCN125138	☒		
Delta P Switch	3876084-1	NSN	☒		
Oil Temperature Valve	158935-3	NSN	☒		
Gearbox Oil Level Transmitter	3876059-2	UCN128580	☒		
Gearbox Regulating Valve	3289504-3	7231	☒		
Primary Fuel Manifold	3882491-3	N/A	☒		
Secondary Fuel Manifold	3882492-5	N/A	☒		

N/C*= Checking this box certifies no change in part number or serial number shipped.

Initials: CWB

HONEYWELL GTCP331- 200

Repair Type: Light

Unit Part Number:	**Model:**	**Serial No.:**	**Date:**
3800298-1	GTCP331-200ER	P-2697	29-Jul-2019

PARAMETER		UNITS	CONDITION		
			NO LOAD	ECS	MES
BAROMETRIC PRESSURE		PSIA	14.68		14.68
AVERAGE INLET TEMPERATURE		°F	71.3		72.7
OIL PRESSURE		PSIG	66.0		64.3
OIL TEMPERATURE AT PUMP DISCHARGE		°F	166.0		153.7
TURBINE DISCHARGE TEMP (UNIT RAKES)	UPPER #1	°F	657		821
	LOWER #2		649		890
EXHAUST GAS TOTAL TEMP (LAB)	EGT MEASURED	°F	652		860
	EGT CORRECTED				874
	REQUIRED*				942
ORIFICE INLET PRESSURE		PSIA			48.0
ORIFICE INLET TEMPERATURE		°F			337.1
ORIFICE DELTA P		IN. H_20			43.1
BLEED AIRFLOW	WB MEASURED	LB/MIN			259.0
	WB CORRECTED				259.3
	REQUIRED*				258.6
BLEED AIR TOTAL PRESSURE	PB MEASURED	PSIA			52.9
	PB CORRECTED				52.8
	REQUIRED*				52.5
BLEED AIR TOTAL TEMPERATURE	MEASURED	°F			367
DISCHARGE CORRECTED BLEED FLOW	CALCULATED	LB/MIN			93.9
	REQUIRED				95 ± 2.0
GEARBOX PRESSURE	MEASURED	IN. H_20	-38.0		
	REQUIRED		-25 MAX		
UNIT VIBRATION	ACCESSORY	IN/SEC	0.15	0.18	0.18
	REQUIRED		1.00	1.00	1.00
	TURBINE		0.31	0.36	0.37
	REQUIRED		1.00	1.00	1.00
	FAN		0.54	0.56	0.56
	REQUIRED		0.60	0.60	0.60
APU SPEED (ECS)	MEASURED	RPM		39,841	
	REQUIRED RANGE			39641-40063	
APU SPEED (MES)	MEASURED	RPM			40,368
	REQUIRED RANGE				40158-40640

TECHNICIAN: SIGNATURE CWB CWB DATE 29 Jul 2019

UAS UNIQUE AIRMOTIVE SERVICES LLC

July 29, 2019

APU P/N 3800298-1 GTCP331-200ER S/N P-2697 Ref: Work Order 200917

To Whom It May Concern:

This letter is to confirm that the above mentioned APU serial number P-2697 fuel system was purged on July 29, 2019 and contains no hazardous liquids or chemicals.

This unit contains only the following fluids:

Lubricant MIL-PRF-6081 Royal MSDS #750.004-2 and/ or Turbo Oil 2380 / Exxon #217556-02380.

Thank you,

Roger J. Brochu
Unique Airmotive Services, LLC

175 Bonum Road
Lake Wylie, South Carolina 29710
Ph: 803-831-9390 / Fx: 803-831-2573

UAS UNIQUE AIRMOTIVE SERVICES LLC

July 29, 2019

Subject: **APU P/N 3800298-1 GTCP331-200ER S/N P-2697**
Ref: Work Order 200917

To whom it may concern,

This letter is to confirm that a post-test borescope has been performed to the subject APU with no visual defects noted. The Compressor and Turbine Sections have been inspected with no visible damage present.

Please feel free to contact me should you have any additional questions or concerns.

Roger J. Brochu
Unique Airmotive Services, L.L.C.

175 BONUM ROAD
LAKE WYLIE, S.C. 29710
PH: 803-831-9390 / FX: 803-831-2573

Shop Visit
Unique Airmotive Services - May 2016

9100 S. Dadeland Blvd., Suite 1500, Miami, FL 33156 +1-305-271-6650
info@longreach.com www.longreach.com

1. Approving Civil Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	2016167

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
Unique Airmotive Services, L.L.C., 175 Bonum Road, Lake Wylie, S.C. 29710 (3UAR147C) Phone: (803) 831-9390, Fax: (803) 831-2573	200917 / 50727

6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status / Work:
001	Engine, Gas Turbine	3800298-1	1	P-2697	Inspected

12. Remarks:

This component has been inspected in accordance with Honeywell publications manual ATA 49-22-13 revision 21, dated January 15, 2015. All flammable liquids have been purged and unit was preserved with MIL-PRF-6081 grade 10/10 lubricant for shipping and preservation purposes.

Time Since New: 19915 / Cycles Since New: 26224

Certifies that the work specified in block 11 /12 was carried out in accordance with EASA Part 145 and in respect to that work the component is considered ready for release to service under EASA Part 145 approval number EASA.145.6499.

13a. Certifies the items identified above were manufactured in conformity to:		14a. ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 12.	
☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 12.		Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.	
13b. Authorized Signature:	13c. Approval / Authorization No.:	14b. Authorized Signature:	14c. Approval / Certificate No.: 3UAR147C
13d. Name (Typed or Printed):	13e. Date (dd/mmm/yyyy):	14d. Name (Typed or Printed): **Roger J. Brochu**	14e. Date (dd/mmm/yyyy): **26 May 2016**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.

Where the user / installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user / installer ensures that his / her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.

Statement in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user / installer before the aircraft may be flown.

UAS UNIQUE AIRMOTIVE SERVICES LLC
175 BONUM ROAD LAKE WYLIE, SC 29710
PHONE: 803-831-9390 FAX: 803-831-2573
WWW.UNIQUEAIRMOTIVE.COM
FAA APPROVED REPAIR STATION# 3UAR147C
EASA APPROVAL CERTIFICATE# EASA.145.6499

WORK ORDER INSPECTION REPORT

WORKSCOPE	: INSPECTED
T.S.N.	: 19915
C.S.N.	: 26224
T.S.O.	: N/A
C.S.O.	: N/A

W/O No. 200917

P/N 3800298-1

For Customer	: MIAMI INTER AIR, INC.
S.O. No.	: 201383 Line No. : 1

Cust P.O.	: 50727	P/N	: 3800298-1	S/N	: P-2697
Our Ref	: WO 200917	Desc	: AUXILIARY POWER UNIT	W/O	:
Your Ref	: 50727	S/N	:	P/O	: 50727
	:	MFG	:	Manual	:
	:	Qty	: 1 Cond As: AR	Revision	:
Completed P/N	: 3800298-1	S/N As	:	Into Bin Loc	:

Company	: 1	Division	:	Department	:		
Order Date	: Apr-21-2016	Received Date	: Apr-21-2016	Due Date	:	Print Date	: May-26-2016

Repair WORK ORDER No. 200917

Reported By Customer
VERIFY P/N AND S/N AS RECEIVED. WORKSCOPE: EVALUATE FOR RETURN TO SERVICE.
Preliminary Insp.
VERIFIED P/N 3800298-1 S/N P-2697 MODEL GTCP331-200ER. UNIT RECEIVED IN GOOD GENERAL CONDITION WITH NO VISUAL TRANSIT DAMAGE NOTED. PRELIMINARY BORESCOPE AND RECEIPT INSPECTIONS WERE PERFORMED WITH THE FOLLOWING RESULTS: 1) COMPRESSOR SECTION, CLEAN NO VISUAL DAMAGE, 2) LOAD COMPRESSOR, CLEAN NO VISUAL DAMAGE, 3) FIRST STAGE STATOR AND TURBINE BLADES CLEAN NO VISUAL DAMAGE, 4) THIRD STAGE TURBINE BLADES, CLEAN NO VISUAL DAMAGE, 5) MAGNETIC CHIP DETECTORS AND FILTERS, CLEAN NO CONTAMINATION NOTED, 6) OIL PUMP, FCU AND GENERATOR DELTA "P" INDICATORS NOT EXTENDED. APU WAS FITTED FOR FULL PERFORMANCE CHECK WITH ALL PARAMETERS WITHIN ACCEPTABLE LIMITS.
Corrective Action
THIS COMPONENT HAS BEEN INSPECTED AND FUNCTIONALLY TESTED IN ACCORDANCE WITH HONEYWELL PUBLICATIONS MANUAL ATA 49-22-13 REVISION 21, DATED JANUARY 15, 2015. DETAILS OF WORK PERFORMED AT THIS SHOP VISIT ARE AS FOLLOWS:

APU WAS FITTED FOR FULL PERFORMANCE AND OPERATIONAL CHECK WITH ALL PARAMETERS FOR BLEED PRESSURE AND AIR FLOW WIHTIN ACCEPTABLE LIMITS. ALL FLAMMABLE LIQUIDS HAVE BEEN PURGED AND UNIT WAS PRESERVED WITH MIL-PRF-6081 GRADE 10/10 LUBRICANT FOR SHIPPING AND PRESERAVTION PURPOSES.

DISK-APU 1ST STAGE TURBINE P/N 3840019-1 S/N 135703907CYCLES SINCE NEW: 15444 / CYCLES REMAINING: 4556

Continued on next page...

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FAA APPROVED REPAIR STATION# 3UAR147C
EASA APPROVAL CERTIFICATE# EASA.145.6499

WORK ORDER INSPECTION REPORT

Repair WORK ORDER No. 200917

DISK-APU 2ND STAGE TURBINE P/N 3840007-1 S/N 350101589 CYCLES SINCE NEW: 17957 / CYCLES REMAINING: 2043

DISK-APU 3RD STAGE TURBINE P/N 3840022-4 S/N 734502190 CYCLES SINCE NEW: 14410 / CYCLES REMAINING: 10590

A/D's and S/B's

AIRWORTHINESS DIRECTIVE 85-14-02 IS NOT APPLICABLE DUE TO COOLING FAN P/N 3616959-6 INSTALLED.

Authorized Signature : _____ Name : R. Brochu Date : 26 MAY 2016

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UAS401A
February 2015
Rev: Original

Unique Airmotive Services, L.L.C.

Preliminary Receiving and Inspection Form

FAA CRS# 3UAR147C / EASA.145.6499

Customer:	Miami Inter Air	**Part No.:**	3800298-1	**W.O. No.:**	200917
P.O. No.:	50727	**Serial No.:**	P-2697	**Model No.:**	GTCP331-200ER

1.0 Receiving Inspection:

Log Book Received:	☒ NO	☐ YES		
Customer Supplied:	☒ NO	☐ YES		
Shipping Container is a:	Wooden box			
Shipping Container damage:	☐ NO	☒ YES		
A.P.U. external damage:	☒ NO	☐ YES		
A.P.U. Missing parts:	☒ NO	☐ YES		
Missing Q.E.C. Items:	☒ NO	☐ YES		
Engine Rotation:	☒ Smooth	☐ Rough	☐ Seized	
Oil Condition:	☒ Normal	☐ Burnt	☐ No-Oil	☐ Contaminated
I.G.V. Pull Test:	☒ Smooth	☐ Rough	☐ Seized	8 Pounds of pull
Fan Gears:	☒ Normal Light wear		☐ Worn	☐ Damaged

Delta "P" Indicators

Oil Pump Delta "P" extended:	☒ NO	☐ YES
Fuel Control Delta "P" extended:	☒ NO	☐ YES
Gen. Scavenge Filter Delta "P" extended:	☒ NO	☐ YES

Filters

Oil Pump Contamination:	☒ None	☐ Light	☐ Moderate	☐ Heavy
Fuel Control Contamination:	☒ None	☐ Light	☐ Moderate	☐ Heavy
Gen. Scavenge Contamination:	☒ None	☐ Light	☐ Moderate	☐ Heavy

Magnetic Chip Detectors

Gearbox Chip Detector:	☒ None	☐ Light	☐ Moderate	☐ Heavy	
Mid Frame Chip Detector:	☒ None	☐ Light	☐ Moderate	☐ Heavy	☐ N/A -250H
Aft Scav. Pump Chip Detector:	☒ None	☐ Light	☐ Moderate	☐ Heavy	☐ N/A -250H
Generator Chip Detector:	☒ None	☐ Light	☐ Moderate	☐ Heavy	☐ N/A -250H

Initials: CWB

Work Order No.:	200917	Serial No.:	P-2697

2.0 Borescope Findings:

A.P.U. Borescoped	☐ NO	☒ YES
1st Stage Turbine Stator:	☒ Acceptable	☐ Damaged
1st Stage Turbine Wheel Blades:	☒ Acceptable	☐ Damaged
1st Stage Compressor Impeller:	☒ Acceptable	☐ Damaged
2nd Stage Compressor Impeller:	☒ Acceptable	☐ Damaged
Load Compressor Impeller:	☒ Acceptable	☐ Damaged
3rd Stage Turbine Wheel:	☒ Acceptable	☐ Damaged
Combustion Chamber:	☒ Acceptable	☐ Damaged
Load Compressor & Power Section Ball Bearings:	☒ Acceptable	☐ Damaged

Remarks:

Data Plate Information:

Gearbox Assembly Data plate:	P/N: 3862180-21	S/N: P-1858
Load Compressor Data Plate:	P/N: 3804002-11	S/N: P-2370
Power Section Data Plate:	P/N: 3810224-11	S/N: P-2354

3.0 Incoming Functional Test Results

☐ A.P.U. was not pre-tested. See remarks below.
☐ A.P.U. was not pre-tested due to major internal damage.
☐ A.P.U. was not pre-tested due to major external damage.
☐ A.P.U. was not pre-tested due to metal contamination in oil.
☒ A.P.U. was pre-tested. Results are within acceptable manual specifications.
☐ A.P.U. was pre-tested. The following results exceed allowable specifications:

Remarks: All parameters within acceptable limits

Initials: CWB

Work Order No.:	200917	Serial No.:	P-2697

4.0 Evaluation

Gearbox Condition

- ☐ Metal Contamination
- ☐ Bearing Failure
- ☐ Gear Failure
- ☐ Oil Leak
- ☐ Liners Worn/Scored
- ☐ High Hours/Cycles
- ☐ Requires Modification
- ☐ Customer Request
- ☐ Other

Gearbox Recommended Workscope:

☐ Repair ☐ Overhaul ☒ Visually Accept ☒ Not Disassembled

Load Compressor Condition

- ☐ Strike Damage
- ☐ Bearing Failure
- ☐ IGV Wear/Failure
- ☐ Rub Damage
- ☐ Low Performance
- ☐ Surge Margin
- ☐ Oil Leak
- ☒ Other

Load Compressor Recommended Workscope:

☐ Repair ☐ Overhaul ☒ Visually Accept ☒ Not Disassembled

Power Section Condition

- ☐ Strike Damage
- ☐ Bearing Failure
- ☐ Blade Shift
- ☐ Rub Damage
- ☐ High Hours/Cycles
- ☐ Hot Section Deteriorated
- ☐ High EGT
- ☐ Oil Leak
- ☐ Other

Power Section Recommended Workscope:

☐ Repair ☐ Overhaul ☐ HSI ☒ Visually Accept ☒ Not Disassembled

Line Replaceable Units:

☐ Route for Test and Repair as Necessary
☒ Functional test on engine

Initials: CWB

Work Order No.:	200917	Serial No.:	P-2697

Component / Subassembly Receiving Inspection

FAA CRS# 3UAR147C / EASA.145.6499

	Removed			Installed	
Description	Part Number	Serial No.	N/C*	Part Number	Serial No.
Fuel Control Unit	3882500-17	A2672	☒		
Cooling fan	3616959-6	P-2098	☒		
Surge Control Valve	979806-11	P-3094C	☒		
Load Control Valve	N/A		☒		
Starter	519858-8	11-2379	☒		
Oil Pump	3880190-10	A-4133	☒		
Shuttle Valve	3616848-2	NSN	☒		
LOP Switch	6876024-5	1173T0337-01	☒		
Wiring Harness	3888123-5	NSN	☒		
Oil Cooler	160176-1	28-1007	☒		
IGV Actuator	3885167-1	0097	☒		
Fuel Flow Divider	3882550-3	A2246	☒		
Ignition Exciter	3888058-7	130679	☒		
Variable Volume Chamber	3290594-1	NSN	☒		
Compressor Inlet Pressure Sensor	3876035-5	6119-2A-93	☒		
Flow Sensor Module	3614400-7	UCN125138	☒		
Delta P Switch	3876084-1	NSN	☒		
Oil Temperature Valve	158935-	NSN	☒		
Gearbox Oil Level Transmitter	3876059-2	UCN128580	☒		
Gearbox Regulating Valve	3289504-3	7231	☒		
Primary Fuel Manifold	3882491-3	N/A	☒		
Secondary Fuel Manifold	3882492-5	N/A	☒		

N/C*= Checking this box certifies no change in part number or serial number shipped.

Initials: CWB

Shop Visit
United Airlines - August 2013

9100 S. Dadeland Blvd., Suite 1500, Miami, FL 33156 +1-305-271-6650
info@longreach.com www.longreach.com

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	016-A00529721

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
UNITED United Air Lines, Inc San Francisco International Airport, San Francisco, CA 94128 (UALR011A)	V539

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Qty	11 Serial/Batch #	12. Status/Work
(1)	APU-GTCP331-200ER CO A-6-9	MFG P/N 3800298-1	N/A	1	MFG S/N 62697	REPAIRED

13 Remarks

APU WAS MADE SERVICEABLE PER SFOPB SHOP VISIT MAINTENANCE PROGRAM 49-00-00 ETT 18025 ETC 23603 APU TEST RUN REQUIREMENTS ARE RECORDED IN AMIS ENGWRK DISPLAY
END

SPEC 2000 ID SPL 81979- UCN 331-200ER-62697

[redacted]

19 ☑ 14 CFR 43 9 Return to Service ☑ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13 the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14 Code of Federal Regulations part 43 and in respect to that work the items are approved for return to service

20 Authorized Signature	21 Approval/Certificate No
[signature]	UALR011A
22. Name (Typed or Printed)	**23 Date (m/d/y)**
JACK HUNTINGTON U018617	AUG/22/2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulation of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross-check eligibility with applicable technical data

[FAA form 8130-3 (6-01)-NSN 0052-00-012-9005]

HAZMAT HAZMAT HAZMAT HAZMAT

24 Stock Control Information		
	RCS CONTROLLED ? YES	PCN 265-9101
	HOME SHOP WRONG - 551	FINAL ROUTING 265
	SHELF LIFE(IN MONTHS) 99	BATCHABLE? NO
	SHIP & STORE IN CONTAINER EW*	

25 **UNITED**

26 **Part Removed Tag**	27 ROUTED BY (PRINT LAST NAME & P/N)	28. STATION	29. DATE:

	30 ON UNIT	31 OFF UNIT
PCN	265-9101	
PART NUMBER	3800298-1	
DESCRIPTION	APU-GTCP331-200ER COA-6-9	
DASH NO ON	1	
DASH NO OFF		
MFG S/N	62697	
UTSO		

32 **REMOVAL & INSTALLATION DATA**

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED		COMPLETE AS REQUIRED	
PLANE NO	PLANE TT	NHA PCN	NHA DASH #	NHA** CODE	POSITION

REASON FOR REMOVAL OR REPORTED TROUBLE(INCLUDE LINE CENTERWIU):

☐ TIME (SCHEDULED MAINT.) ☐ TROUBLE (SUSPECTED FAILURE OR TROUBLE SHOOTING) ☐ OTHER (COA, DAMAGE, WEAR OR CONVENIENCE)

[redacted]

** NHA (NEXT HIGHER ASSEMBLY) CODES A OR BLANK = AIRPLANE, G = LANDING GEAR, P = APU, 1, 2, 3 OR 4 = ENGINE

GMM 07-65-40

HAZMAT HAZMAT HAZMAT HAZMAT

E4/23/15
3:06 47 PM

Index Form

Doc. Type:	CD
Tracking Number:	NP0982306
Activity Date:	08/22/13
Doc Number:	EON: V539
Ref Doc:	
Aircraft Number:	
MFG P/N:	
M&E :	
S/N:	2697
OP Step:	
Station:	
ATA Code:	
Fleet:	
Vendor Code:	
Package Type:	ESV
Package Date:	08/22/13
Comments:	APU-200
PREPPED BY :	RITA PAZ — YOUR NAME HERE
PREPPED DATE:	4/3/2015 — TODAY'S DATE

UAL ENGINE / APU ROM Index
Vendor Imaging Systems Control Sheet Version

Section	Item		Description
1	01	☑	Certification form for Scan
2	01	☐	Serviceable Engine & Module Tag
	02	☐	Engine I & R Tags
	03	☐	Module I & R Tags
	04	☐	Non Routine's
	05	☐	Engine Customer Maintenance Tags
	06	☐	Module Customer Maintenance Tags
3	01	☑	Engine Job Instruction Cards
4	01	☑	Module Job Instruction Cards

A	B	C	D	E	F	G
H	I	J	K	L	M	N
P	Q	R	S	T	U	V
W	X	Y				

5	01	☐	COA'S
6	01	☑	Engine Inspection & Condition Sheet, Miscellaneous Documents
	02	☐	Fulfillment Center ICS
7	01	☑	Module Inspection & Condition Sheet

A	B	C	D	E	F	G
H	I	J	K	L	M	N
P	Q	R	S	T	U	V
W	X	Y				

8	01	☑	AD Verification - Checklist
	02	☑	Unit Hard Limit Report
9	01	☑	Final Accountability and Test Cell JIC's
10	01	☑	D-199 (Records Certification)
	02	☑	8130 or ENGVST meter (Engine Certification)
11	01	☐	Customer Documents
12	01	☑	Removal Composition Report
	02	☑	Limit Planning Report
	03	☑	Installation Composition Report

UNITED

RECORDS OF MAINTENANCE

CERTIFICATION FORM

SFOMR/PA Certifies that the *Records of Maintenance* for:

Engine S/N 62697 Order NBR V539

Fleet APU Customer UA Vendor _____

Visit Type ESV Complete or Found As Is (*)and ready for storage and/or scanning (circle which one applies).

Signed Rita Paz
(SFOMR - Maintenance Records Specialist)

*Signed _____
(SFOMR - Maintenance Records Supervisor)

*Dual countersignature by supervisor is needed on this form when "found as is" is circled above.

Date 04-03-15

BOX #

MAYRA FLAHERTY

AUG 2 3 2013

Checklist for 331-200 (V)

EON V539 **S/N** 62697 **DATE** 8/16/13

JOB NUMBERS		COVER PAGE	CHECK
V0100 0	V539	BASE CHECK	
V0103 0	V539	*** ENGINE TEST ***	FINAL
V1000 0	V539	ENGINE DISASSY/ASSY	
V2000 0	NV532	POWER SECTION	
V2005 0	SV	TURBINE SCAVENGE PUMP ASSY JIC or 8130	
V3000 0	AV534	ACCY GEARBOX	
V5000 0	PV	OIL PUMP JIC or 8130	
V6000 0	FV535	LOAD COMPRESSOR	
V6005 0	IV535	IGV ASSY	
V8000 0	NV532	ENGINE BALANCE (Optional)	
V7000 0	LV	STARTER CLUTCH ASSY (Use if different from AV)	

COA	V539	☒ Scheduling Report / ☐ Job Card
COA	NV532	☒ Scheduling Report / ☐ Job Card
COA	AV534	☒ Scheduling Report / ☐ Job Card
COA	FV535	☒ Scheduling Report / ☐ Job Card

BAL ☐ 8130 / ☒ I&R / ☐ LIFE CARD	T1	3840019-1/265-0224 WHEEL ONLY 0135703907
BAL ☐ 8130 / ☒ I&R / ☐ LIFE CARD	T2	3840007-1/265-0222 WHEEL ONLY 0350101589
☒ 8130 / ☒ I&R / ☒ LIFE CARD	T3	3840022-4/265-0223 WHEEL ONLY 0734502190
BAL ☐ 8130 / ☒ I&R / ☐ LIFE CARD	IMPLR-C1	3822067-2/265-0457 0365101491
☒ 8130 / ☒ I&R / ☒ LIFE CARD	IMPLR-C2	3822068-1/265-0210 0322900940
☐ 8130 / ☒ I&R / ☐ LIFE CARD	IMPLR	3822080-3/265-0059 0650109938

V1522 0 Give to Inspection to make serviceable (S)
To show in ENGMOD/ENGRVW

NOTE TO MR AT 9 30AM

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, BASE CHECK

REV. 4/26/07

V539	62697	V0100.0
ORDER NO.	ENGINE NO.	JOB NO

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

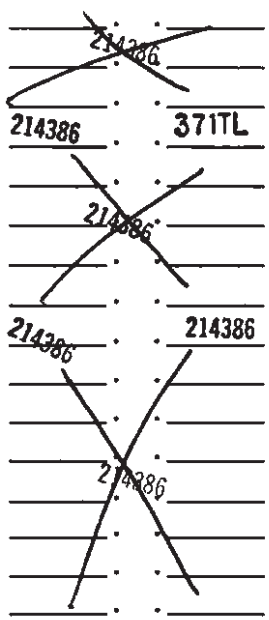
NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT



V0002.0	- NON-ROUTINE ACCOUNTABILITY
V0005.0	PARTS AS-RECVD INVENTORY- CUST/LEASE
V0010.0	MR UNIT/TAG ACCOUNTABILITY LIST
V0101.0	BASE CHECK - PRELIMINARY SERVICE
V0101.1	BASE CHECK - FINAL SERVICE
V0101.2	CSV - C CHECK
V0101.5	BASE CHECK - PRELIM. SERVICE-CUSTOMER
V0101.6	BASE CHECK - FINAL SERVICE-CUSTOMER
V0102.0	BASE CHECK INSPECTION
V0102.1	M.I.S. CLEAN UP

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, BASE CHECK

REV. 4/26/07

V539	62697	V0100.0
ORDER NO	ENGINE NO	JOB NO

214386

214386

2 NO COA'S 214386

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

SIGNATURE: 214386 DATE: 2/15/13

END JOB V0100.0 REVISED 4/26/07

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK - PRELIMINARY SERVICE

REV. 3/5/13

V539	62697	V0101.0
ORDER NO.	ENGINE NO	JOB NO

NOTE - SET TORQUE WRENCH TO THE TORQUE VALUE SPECIFIED. IF NO TORQUE VALUE IS SPECIFIED, USE STANDARD TORQUE PER GN-8-0-2-14.

CAUTION - SCRAP ANY SELF LOCKING NUT WHICH CAN BE TURNED PAST ITS LOCKING FEATURE BY HAND.

WARNING - REMOVAL OF CHIP DETECTOR HOUSING WILL CAUSE OIL TO DRAIN FROM APU. HOT OIL CAN CAUSE BURNS. TAKE NECESSARY PRECAUTIONS.

M 5474 1. -----C CHECK REQUIRED ITEM----- REMOVE THE FOLLOWING AND CHECK FOR METAL. IF METAL FOUND NOTIFY INSPECTION AND REQUEST JIC V0102.1 FROM SCHEDULE CENTER. REMOVE INLET SCREEN, T-DUCT AND SURGE VALVE ELBOW FOR BOROSCOPE ACCESS. IF METAL NOT FOUND, PROCEED TO NEXT SIGNOFF.

A. GEARBOX MAGNETIC CHIP DETECTOR AND CHIP DETECTOR HOUSING.
METAL FOUND YES _____ NO 5474

B. GENERATOR MAGNETIC CHIP DETECTOR AND CHIP DETECTOR HOUSING.
METAL FOUND YES _____ NO 5474

EMAC 60 4927 004AA 1AC
EMAC 50 4927 004JA 1A
MRB 49-016 - 757
MRB 49-014 - 767

M 5474 2. -----C CHECK REQUIRED ITEM----- REMOVE THE FOLLOWING IF INSTALLED, AND CHECK FOR METAL. IF METAL FOUND, NOTIFY INSPECTION AND REQUEST JIC V0102.1 FROM SCHEDULE CENTER. IF METAL NOT FOUND, PROCEED TO NEXT SIGNOFF.

371TL
_____L

ALL ITEMS ARE PROPERLY SIGNED OFF.

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK - PRELIMINARY SERVICE

REV. 3/5/13

V539	62697	V0101.0
ORDER NO	ENGINE NO	JOB NO

A. TURBINE MAGNETIC CHIP DETECTOR AND CHIP DETECTOR HOUSING.
METAL FOUND YES _____ NO 5474

B. COMPRESSOR MAGNETIC CHIP DETECTOR AND CHIP DETECTOR HOUSING.
METAL FOUND YES _____ NO 5474

EMAC 60 4927 004AE 1A
EMAC 50 4927 004JB 1A
MRB 49-063 - 757

MRB 49-059 - 767

M 5474 3. -----ENGINE SHOP VISIT REQUIRED ITEM-----
REMOVE MONOPOLE AND CHECK FOR METAL AND STRIKE. IF METAL OR STRIKE FOUND, NOTIFY INSPECTION AND REQUEST JIC V0102.1 FROM SCHEDULE CENTER.
IF NEITHER FOUND, PROCEED TO NEXT SIGN-OFF.

METAL FOUND YES _____ NO 5474
STRIKE YES _____ NO 5474

M 5474 4. -----C CHECK REQUIRED ITEM----- VISUALLY CHECK MAIN OIL FILTER DIFFERENTIAL PRESSURE INDICATOR AND RECORD FINDINGS. EXTENDED - YES_____ NO 5474

EMAC 60 4927 007AB 1AC
EMAC 50 4927 007JA 1A
MRB 49-023 - 757
MRB 49-022 - 767

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK - PRELIMINARY SERVICE

REV. 3/5/13

V539	62697	V0101.0
ORDER NO	ENGINE NO	JOB NO

M 5474 5. -----C CHECK REQUIRED ITEM----- REMOVE OIL FILTER ELEMENT AND CHECK FOR CONTAMINATION OR DAMAGE. IF EITHER CONTAMINATION OR DAMAGE FOUND, NOTIFY INSPECTION. IF OIL FILTER ELEMENT OK, REINSTALL.

NOTE - O-RING MUST BE REPLACED REGARDLESS OF OIL FILTER ELEMENT CONDITION.

METAL FOUND YES _____ NO 5474

EMAC 60 4927 003AC 4A
EMAC 50 4927 003GA 3A
MRB 49-024 - 757
MRB 49-023 - 767
MRB 49-025 - 767

M 5474 6. -----C CHECK REQUIRED ITEM----- VISUALLY CHECK GENERATOR FILTER DIFFERENTIAL PRESSURE INDICATOR AND RECORD FINDINGS. EXTENDED - YES_____ NO 5474

EMAC 60 4927 015JF 1AC
EMAC 50 4927 003JB 1A
MRB 49-025 - 757
MRB 49-024 - 767

M 5474 7. -----ALL SHOP VISIT REQUIRED ITEM-----REMOVE GENERATOR OIL SCAVENGE FILTER AND CHECK FOR METAL. IF METAL FOUND NOTIFY INSPECTION AND REQUEST JIC V0102.1 FROM SCHEDULE CENTER. IF METAL NOT FOUND, REINSTALL OLD FILTER AND PROCEED TO NEXT SIGN-OFF.

OCT2013

METAL FOUND YES _____ NO 5474

EMAC 60 4927 003AI 4A
EMAC 50 4927 003GA 3A
MRB 49-024 - 757
MRB 49-0F 26 767

37177L

ALL ITEMS ARE PROPERLY SIGNED OFF.

214386

8. BEFORE CONTINUING WITH BASE CHECK SERVICE, CONTACT PLANNING CONTROL CENTER FOR SCHEDULING OF BASE CHECK INSPECTION JIC V0102.0.

I

9. IF ENGINE TO BE COMPLETELY DISASSEMBLED, AND ALL MODULES TO BE ROUTED FOR DISASSEMBLY, NO FURTHER INSPECTION SIGN-OFFS REQUIRED, THEN PROCEED TO STEP 11.

I

10. VISUALLY INSPECT ALL DRIVEN COMPRESSOR IMPELLER BLADES FOR DAMAGE AND/OR IRREGULARITIES, INCLUDING LEADING AND TRAILING EDGE WITH BOROSCOPE. ALSO VISUALLY INSPECT POWER SECTION C1 IMPELLER BLADES FOR DAMAGE AND IRREGULARITIES.

NOTE - NOTIFY SFOEP APU ENGINEERING IF DAMAGE FOUND.

DAMAGE FOUND YES_____ NO_____

M 5474

11. -----C CHECK REQUIRED ITEM----- VISUALLY CHECK FUEL FILTER DIFFERENTIAL PRESSURE INDICATOR AND RECORD FINDINGS.

EXTENDED - YES _____ NO 5474

IF INDICATOR EXTENDED, CHANGE FILTER AND RESET INDICATOR.

EMAC 60 4931 010AB 1AC
EMAC 50 4931 004JA 1A
MRB 49-033 - 757
MRB 49-032 - 767

M 5474

12. DISCONNECT PNEUMATIC LINES FROM ALL COMPONENTS THEN BLOW OUT LINES USING SHOP AIR.

371TL L

ALL ITEMS ARE PROPERLY SIGNED OFF.

M 6474 13. -----ALL SHOP VISIT REQUIRED ITEM-----
REMOVE PNEUMATIC LINE AND ELBOW FITTING FROM COMPRESSOR INLET PRESSURE SENSOR. BLOW OUT LINE AND FITTING WITH SHOP AIR OR ULTRASONIC CLEAN. MAKE SURE PORT IN INLET PLENUM IS CLEAN WITHOUT DESTRUCTION.

TUBE CLEARED: YES 6474 NO_____

371TL LM 6474 14. -----ALL SHOP VISIT REQUIRED ITEM-----CHECK INLET GUIDE VANE LINKAGE WEAR AS FOLLOWS.

A. REMOVE IGVA COVER. VISUALLY CHECK FOR WEAR ON TRUNNION BUSHING. VISABLE WEAR IS CAUSE FOR TRUNNION BUSHING REPLACEMENT.

TRUNNION BUSHING REPLACED YES_____ NO 6474

B. REMOVE BOLT ATTACHING BELLCRANK TO LINKAGE ROD END. CHECK FOR WEAR IN BELLCRANK AND FOR DAMAGE OR WEAR TO FORKS. SIDE PLAY AT BELLCRANK PIVOT POINT IS CAUSE FOR BELLCRANK REPLACEMENT. IF BELLCRANK IS REPLACED, REPLACE TRUNNION BUSHING REGARDLESS OF CONDITION.

BELLCRANK REPLACED YES_____ NO 6474

NOTE - BELLCRANK PIVOT POINT WEAR HAS BEEN NOTED. ANY PLAY IN BELLCRANK INDICATES PIVOT POINT BEARING WEAR.

C. CHECK TRUNNION BLOCK FOR LOOSENESS WHERE TRUNNION ATTACHES TO BELLCRANK. AXIAL FREEPLAY OF BELLCRANK TO TRUNNION IN EXCESS OF 0.020 INCH IS CAUSE FOR TRUNNION BUSHING REPLACEMENT. IF BELLCRANK IS REPLACED, REPLACE BUSHING REGARDLESS OF CONDITION.
CHECK TRUNNION BLOCK FOR DAMAGE AND REPLACE IF DAMAGED.

TRUNNION BLOCK REPLACED YES_____ NO 5474

D. CHECK FOR FREEPLAY IN IGV LINKAGE AND FOR AXIAL PLAY IN ROD ENDS BY MOVING ROD IN AND OUT. AXIAL PLAY UP TO 0.080 INCH WITH NO VISUAL MOVEMENT IN VANES IS ACCEPTABLE.

NOTE - EXCESS FORCE SHOULD NOT BE APPLIED TO OPEN AND CLOSE INLET GUIDE VANES. SIDE PLAY CAUSED BY ROD END BEARING IS NORMAL.

E. REPLACE WORN EXTERNAL PARTS AND REINSTALL IN ACCORDANCE WITH SHOP PROCEDURE 49-25-01/SP AND/OR 49-10-01/SP.

EMAC 60 4952 099AA 2A1C

M 5474 15. CHECK LRU CLUTCH FOR FREE ROTATION IN CLOCKWISE DIRECTION AND FOR SLIPPAGE OR BINDING IN COUNTER CLOCKWISE DIRECTION. REPLACE IF ANY SLIPPAGE OR BINDING FOUND.

REPLACED: YES_____ NO 5474

M 5474 16. REMOVE THE IGNITION LEAD AND PLACE ON CART FOR INSPECTION (EID/REPAIR).

M 6474 17. -----ALL SHOP VISIT REQUIRED ITEM----- REMOVE IGNITOR PLUG AND ADAPTER AND DISCARD PLUG AND GASKETS REGARDLESS OF CONDITION. NOTE CONDITION OF REMOVED PLUG BY STAMPING A OR BELOW BELOW:

6474 A THE DISTANCE BETWEEN EDGE OF ELECTRODE AND INSIDE OF UNERODED EDGE OF GROUND SHELL TIP IS LESS THAN 0.090 INCH. UNIFORM EROSIION OF ELECTRODE AND OUTER SHELL IS ACCEPTABLE. NO CRACKS OR CHIPPED AREA ON CERAMIC INSULATOR.

B. DISTANCE BETWEEN EDGE OF ELECTRODE AND INSIDE OF UNERODED EDGE OF GROUND SHELL TIP IS GREATER THAN 0.090 INCH. ANY CRACK OR CHIPS ON INSULATION AREA.
ELECTRICAL CONNECTOR PIN BURNED OR BENT.
ANY BROKEN OR MISSING PARTS.
SCRAP PLUG LOCALLY.

EMAC 60 4941 002AA 3A1C

M 6474 18. -----ESV REQUIRED ITEM----- PERFORM HEAT CHECK OF THERMOCOUPLE HARNESS AND RECORD FINDINGS.

LEFT SIDE OPERATIVE - YES 6474 NO_____
RIGHT SIDE OPERATIVE - YES 6474 NO_____

CONNECT EGT GAGE TO THERMOCOUPLE HARNESS, P2 PLUG, PINS 10 AND 24 FOR #1 PAIR AND PINS 11 AND 25 FOR #2 PAIR. USING PORTABLE BOTTLE GAS APPLY LOCALIZED HEAT, 1200 F (650 C) MAXIMUM TO EACH PROBE ONE AT A TIME. EGT GAGE SHOULD RESPOND FOR EACH PROBE. IF ANY PROBE DOES NOT RESPOND TO HEAT CHECK, REPLACE PROBE.

M 6474 19. -----ESV C CHECK REQUIRED ITEM------
CIRCLE AND ACCOMPLISH A OR B BELOW:

A. IF TIME SINCE HARNESS INSTALLATION IS GREATER THAN 4 YEARS OR NO DATE TAG, ROUTE HARNESS TO HOME SHOP.

EMAC 60 4914 000AA

6474 B. IF TIME SINCE HARNESS INSTALLATION IS LESS THAN 4 YEARS, CHECK WIRING INSULATION FOR BREAKS OR ABRASIONS AND REPAIR AS NEEDED. VISUALLY CHECK ALL MAIN HARNESS CONNECTOR SOCKETS FOR EVIDENCE OF ARCING. REPLACE SOCKETS AS NEEDED. (THIS CHECK IS NOT REQUIRED FOR EGT HARNESSES). IF SBV OR LCV CONNECTORS ARE OLD STYLE WITH CERAMIC INSULATOR, CUT OFF AND DISCARD. IF ELECTRICAL SYSTEM FAILS FUNCTIONAL CHECK, ROUTE HARNESS TO HOME SHOP.

EMAC 60 4910 002FC ESV
EMAC 50 4914 000AB ESV

M 6474 20. IF COOLING AIR SHUTOFF VALVE IS PRESENT, NOTIFY SFOEP APU ENGINEERING. REMOVE COOLING AIR SHUTOFF VALVE AND ROUTE TO HOME SHOP. INDICATE BELOW IF VALVE IS INSTALLED:

_____ A. COOLING AIR SHUTOFF VALVE INSTALLED.

6474 B. COOLING AIR SHUTOFF VALVE NOT INSTALLED.

NOTE - IF COA Y91710 OR M94260 HAS BEEN ACCOMPLISHED, COOLING FAN SHUT-OFF VALVE HAS BEEN DELETED AND NO ACTION IS REQUIRED.

371TL LM 6474 21. -----ALL SHOP VISIT REQUIRED ITEM-----
ACCOMPLISH THE FOLLOWING AND CIRCLE A OR B BELOW:

6474 A. COOLING FAN IS NOT LEAKING OIL. DO NOT ROUTE.

371TL L ALL ITEMS ARE PROPERLY SIGNED OFF.

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

ITem 21B: Stamped in error 5474

5474

~~5474~~ B. COOLING FAN IS LEAKING OIL.
ROUTE COOLING FAN FOR REPAIR.

FAN ROUTED: YES____ NO 5474

M 5474 22. APUSAM1: IF APUSAM1 EVENT IS UNKNOWN, EQUAL OR GREATER THAN 1000 HOURS, ACCOMPLISH THE FOLLOWING FOR ESV ONLY:

A. CHECK PRESSURE RELIEF VALVE COMBUSTOR DRAIN.

REMOVE DRAIN TUBE AND PRESSURE VALVE. CHECK TO SEE IF VALVE CLOSES BETWEEN 10 - 15 PSIG. REPLACE VALVE IF OUT OF LIMIT ON CLOSING PRESSURE.

CAP VALVE IF NOT RE-INSTALLED

ACTUAL PSI: 11

VALVE REPLACED: YES____ NO 5474

B. GEARBOX PRESSURE REGULATING VALVE AND ROUTE.

REMOVE GEARBOX REGULATING VALVE ADAPTER AND ROUTE ON ENGINE CART FOR INSPECTION OR CLEANING PER GN 4-0-3-20.

C. ROUTE OIL COOLER TO HOME SHOP.

M 5474 23. APUSAM2: IF APUSAM2 EVENT IS UNKNOWN, EQUAL TO OR GREATER THAN 2000 HOURS, ACCOMPLISH THE FOLLOWING FOR ESV ONLY:

A. REMOVE STARTER MOTOR AND ROUTE TO HOME SHOP.

NOTE - IF STARTER MOTOR IS P/N 519858-6. ROUTE TO HOME SHOP REGARDLESS OF TIME.

B. REMOVE SURGE CONTROL VALVE AND ROUTE TO HOME SHOP.

C. REMOVE STARTER CLUTCH AND ROUTE TO HOME SHOP.

M 5474 24. APUSAM3: IF APUSAM3 EVENT IS UNKNOWN, EQUAL OR GREATER THAN 3000 HOURS, ACCOMPLISH THE FOLLOWING FOR ESV ONLY:

A. REMOVE GENERATOR DIFFERENTIAL PRESSURE SWITCH AND ROUTE TO HOME SHOP.

B. REMOVE FLOW SENSING MODULE AND ROUTE TO HOME SHOP.

C. REMOVE EXCITER UNIT AND ROUTE TO HOME SHOP.

D. REMOVE THE LOW OIL TEMPERATURE SWITCH AND ROUTE TO HOME SHOP.

E. ROUTE GEARBOX SHUTOFF VALVE TO HOME SHOP.

F. REMOVE SHUTTLE VALVE. DISASSEMBLY VALVE, CLEAN, REPLACE SEALS, AND REASSEMBLE.

G. REMOVE FLOW DIVIDER VALVE ASSEMBLY AND ROUTE FOR BENCH TEST OR REPAIR.

H. REMOVE LOW OIL PRESSURE SWITCH AND ROUTE TO HOME SHOP.

I. REMOVE THE FUEL CONTROL FOR BENCH TEST.

J. REMOVE THE COMPRESSOR INLET PRESSURE SENSOR (P2) AND ROUTE TO HOME SHOP.

K. REMOVE DE-OILER SOLENOID AND ROUTE TO HOME SHOP.

L. REMOVE COOLING FAN AND ROUTE TO HOME SHOP.

M. REMOVE LUBE PUMP ASSY AND ROUTE TO HOME SHOP.

N. REMOVE INLET GUIDE VANE ACTUATOR AND ROUTE TO HOME SHOP.

O. REMOVE AND TAG TURBINE SCAVENGE PUMP FOR ROUTING ON NV MODULE.

M 5474 25. CONTACT INSPECTION TO PERFORM EMOEVT TRANSACTION.

I 037564 26. PERFORM EMOEVT TRANSACTION FOR APU EVENTS ACCOMPLISHED.

_____L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK - PRELIMINARY SERVICE

REV. 3/5/13

V539	62697	V0101.0
ORDER NO	ENGINE NO	JOB NO

END JOB V0101.0 REVISED 3/5/13

551

_____L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK INSPECTION

REV. 1/7/09

V539	62697	V0102.0
ORDER NO	ENGINE NO	JOB NO

THE FOLLOWING ARE INSPECTED TO SATISFY "C" CHECKS AND BASE ENGINE CHECK REQUIREMENTS PER GTCP331 EID 49-10-01/I00 AND INTRODUCTION/POLICY SECTION IN BOOK "0". INITIATE NON-ROUTINE (SFR4129) AS REQUIRED AND/OR RE-REVIEW ENGINE TO ACCOMPLISH CORRECTIVE ACTION.

QC75564 I 1. REVIEW OPEN ELR ITEMS USING "ENGWRK" IN AMIS. STAMP A, B, OR C.

_____ I A. CUSTOMER ENGINE. NOT APPLICABLE. PROCEED TO NEXT ITEM.

QC75564 I B. ELR ITEMS NOT PRESENT. PROCEED TO NEXT ITEM.

_____ I C. TRANSFER "ELR" ITEMS TO NON ROUTINES AND LIST BELOW. ACCOMPLISH "ENDATA" TRANSACTION TO CLEAR ELR ITEMS.

ELR	NON ROUTINE	ELR	NON ROUTINE

QC75564 I 2. STAMP A OR B BELOW.

_____ I A. ENGINE TO REMAIN IN STALL. PROCEED TO NEXT ITEM.

QC75564 I B. POWER SECTION TO BE COMPLETELY DISASSEMBLED. ALL MODULES TO BE ROUTED FOR DISASSEMBLY OR ROUTED WITH ENGINE EXTERNALS FOR MODULE INSPECTION. NO FURTHER SIGN-OFFS REQUIRED.

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK INSPECTION

REV. 1/7/09

V539	62697	V0102.0
ORDER NO	ENGINE NO	JOB NO

_____I	3. VISUALLY INSPECT DRIVEN COMPRESSOR IMPELLER BLADES INCLUDING LEADING AND TRAILING EDGES FOR DAMAGE WITH BORESCOPE.
_____I	4. VISUALLY INSPECT POWER SECTION C1 IMPELLER BLADES FOR DAMAGE AND IRREGULARITIES.
_____I	5. VISUALLY CHECK INLET OF DRIVEN COMPRESSOR AND POWER SECTION FOR DAMAGE.
_____I	6. VISUALLY INSPECT EXPOSED AREAS OF GEARBOX.
_____I	7. VISUALLY INSPECT POWER SECTION INSULATION BLANKET AND HEAT SHIELD EXPOSED AREAS INCLUDING COMBUSTION CHAMBER CASE DUCT AREA.
_____I	8. VISUALLY INSPECT GEARBOX MOUNTS.
_____I	9. VISUALLY INSPECT FWD AND AFT MOUNT BRACKETS.
_____I	10. VISUALLY INSPECT COOLING FAN AND SURGE VALVE DUCTING.
_____I	11. VISUALLY INSPECT PLUMBING AND COMPONENTS. EMAC 60 4953 000AA 1C MRB 49-044 - 757 MRB 49-045 767
_____I	12. VISUALLY INSPECT DRAIN LINES, DRAIN MAST AND CONNECTIONS.
_____I	13. VISUALLY INSPECT FUEL SYSTEM PLUMBING AND COMPONENTS.
_____I	14. VISUALLY INSPECT EXHAUST CASE AND MUFFLER.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK INSPECTION

REV. 1/7/09

V539	62697	V0102.0
ORDER NO	ENGINE NO	JOB NO

_____I 15. VISUALLY INSPECT ALL VISIBLE CLAMPS AND BRACKETS.

****

NON-ROUTINES ISSUED:

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK INSPECTION

REV. 1/7/09

V539	62697	V0102.0
ORDER NO	ENGINE NO	JOB NO

END JOB V0102.0 REVISED 1/7/09

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, ENGINE DISASSY/ASSY

REV. 4/26/07

V539	62697	V1000.0
ORDER NO	ENGINE NO	JOB NO

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

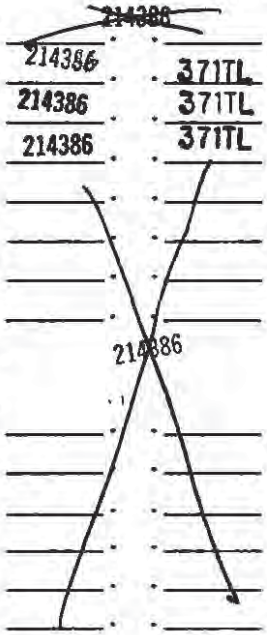
NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT



V0002.0	- NON-ROUTINE ACCOUNTABILITY
V1010.0	49-10-01ENGINE DISASSEMBLY
V1020.0	EXTERNAL PARTS - CLEANING
V1040.0	ENGINE ASSEMBLY - UAL
V1040.1	ENGINE ASSEMBLY- CUSTOMER
V1080.0	QEC REMOVAL
V1090.0	QEC INSTALLATION
V1090.1	QEC INSTALLATION - B757

NOTE - INCLUDE 60-49-10-01-02 ICS - V EXTERNALS WITH LOG PACKAGE.

7

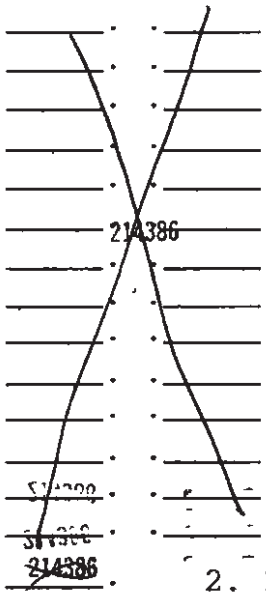
STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, ENGINE DISASSY/ASSY

REV. 4/26/07

V539	62697	V1000.0
ORDER NO	ENGINE NO	JOB NO



2 NO COA'S 214386

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

SIGNATURE: 214386 DATE: 8/20/13

END JOB V1000.0 REVISED 4/26/07

ENGINE MAINTENANCE DEPARTMENT

UNITED

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-10-01ENGINE DISASSEMBLY

REV. 6/15/00

V539	62697	V1010.0
ORDER NO	ENGINE NO	JOB NO

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-10-01.

M 5474 1. REMOVE GENERATOR.

M 5474 2. REMOVE SURGE VALVE AND DUCTS.

M 5474 3. REMOVE COOLING FAN DUCTS.

M 5474 4. REMOVE OIL COOLER.

M 5474 5. DISCONNECT AND REMOVE ELECTRICAL HARNESS.

M 5474 6. REMOVE ENGINE PLUMBING.

M 5474 7. REMOVE BLEED AIR DUCT.

M 5474 8. REMOVE COOLING FAN.

M 5474 9. REMOVE STARTER.

M 5474 10. REMOVE FUEL CONTROL.

M 5474 11. REMOVE LUBE PUMP.

M 5474 12. REMOVE GENERATOR SCAVENGE FILTER.

M 5474 13. REMOVE GEARBOX ADAPTER, SOLENOID VALVE AND REGULATOR VALVE.

M 5474 14. REMOVE MANUFACTURING ENGINE DATA PLATE.

M 5474 15. REMOVE INLET PLENUM.

M 5474 16. DISASSEMBLE UPPER INLET PLENUM.

M 5474 17. REMOVE INLET SCREENS.

M 5474 18. REMOVE GEARBOX.

M 5474 19. REMOVE DRIVEN COMPRESSOR.

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-10-01ENGINE DISASSEMBLY

REV. 6/15/00

V539	62697	V1010.0
ORDER NO	ENGINE NO.	JOB NO

END JOB V1010.0 REVISED 6/15/00

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ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 EXTERNAL PARTS - CLEANING

REV. 6/3/03

V539	62697	V1020.0
ORDER NO	ENGINE NO	JOB NO

1. U 7926 UTILITY MECHANIC (U) CLEAN EXTERNAL COMPONENT PARTS PER GN 4-0-3-20 PROCESS 01 (SOLVENT CLEAN), AND/OR GN 4-0-3-20 PROCESS 2C.

   A. OIL LINES, DUCT ASSEMBLIES, OIL FITTINGS AND TUBES. WASH EXTERIOR AND INJECT SOLVENT INTO INTERIOR PASSAGES. ASSURE ALL PASSAGES ARE NOT OBSTRUCTED AND FREE OF DEPOSITS

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

331-200 EXTERNAL PARTS - CLEANING

REV. 6/3/03

V539	62697	V1020.0
ORDER NO	ENGINE NO	JOB NO

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

END JOB V1020.0 REVISED 6/3/03

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_____L

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ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ENGINE ASSEMBLY - UAL

REV. 6/26/13

V539	62697	V1040.0
ORDER NO.	ENGINE NO	JOB NO

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-10-01/SP01.

I 1. **NOTE** - *VERIFY AREA IS INTACT AND FREE OF DEFECTS AND ALL DEBRIS.*
REFERENCE PAOG 45-55-30-06

371TL LM 5810 A. INSTALL DRIVEN COMPRESSOR.

M 5810 2. INSTALL INLET SCREENS.

I 3. **NOTE** - *VERIFY AREA IS INTACT AND FREE OF DEFECTS AND ALL DEBRIS.*
REFERENCE PAOG 45-55-30-06

371TL LM 5810 A. INSTALL GEARBOX.

M 5810 4. PREASSEMBLE UPPER INLET PLENUM.

M 5810 5. INSTALL INLET PLENUM.

M 5810 6. INSTALL MANUFACTURING ENGINE DATA PLATE

M 5810 7. INSTALL MONOPOLES.

M 5810 8. INSTALL GENERATOR SCAVENGE FILTER AND GENERATOR DELTA P SWITCH.

M 5810 9. INSTALL GEARBOX ADAPTER, DE-OIL SOLENOID VALVE AND REGULATOR VALVE (ETOPS CONFIGURATION).

M 5810 10. INSTALL LUBE PUMP DE-OIL TUBE AND FUEL CONTROL. (ETOPS CONFIGURATION)

M 5810 11. DO NOT CLAMP FUEL LINE TO BRACKET BETWEEN FUEL CONTROL AND FLOW DIVIDER VALVE.

M 5810 12. INSTALL MAIN OIL FILTER ELEMENT.

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371TL L ALL ITEMS ARE PROPERLY SIGNED OFF.

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

ITEM #13 NOT REQUIRED 5810

ITEM #19 NOT REQUIRED 5810

Job Instruction Card

331-200 ENGINE ASSEMBLY - UAL

REV. 6/26/13

V539	62697	V1040.0
ORDER NO	ENGINE NO	JOB NO

5810 M X 13. INSTALL LRU CLUTCH ASSEMBLY.

M 5810 14. INSTALL OIL COOLER.

M 5810 15. INSTALL STARTER. (ETOPS CONFIGURATION)

M 5810 16. INSTALL COOLING FAN.
DUPLICATE SIGNOFF V0101.1
DUPLICATE SIGNOFF V0101.2

M 5810 17. INSTALL FLOW DIVIDER VALVE.

M 5810 18. INSTALL BLEED AIR DUCT.

5810 M X 19. INSTALL IGV ACTUATOR.

M 5810 20. INSTALL SURGE CONTROL VALVE.

M 5810 21. INSTALL COMBUSTOR DRAIN PRESSURE RELIEF VALVE.

M 5810 22. INSTALL ENGINE PLUMBING.

M 5810 23. INSTALL FLOW SENSING MODULE.
CHECK FLOW SENSE MODULE AND INDICATE A OR B BELOW.

5810 A. ADJUSTABLE

_____ B. NON-ADJUSTABLE

OCT[illegible]

M 5810 24. INSTALL COMPRESSOR INLET PRESSURE SENSOR (P2)

M 5810 25. INSTALL GEARBOX SHUTOFF VALVE.

M 5810 26. INSTALL OIL LEVEL SWITCH.

M 5810 27. INSTALL LOW OIL TEMPERATURE SWITCH.

M 5810 28. INSTALL ELECTRICAL HARNESS.
(VERIFY DATE TAG IS INSTALLED)

OCT[illegible]

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ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

ITEM #38 NOT REQUIRED 5810

Job Instruction Card

331-200 ENGINE ASSEMBLY - UAL

REV. 6/26/13

V539	62697	V1040.0
ORDER NO	ENGINE NO	JOB NO

M 5810 29. INSTALL OIL COOLER AND FLEX LINES COA 5-9104 (ETOPS CONFIGURATION).

M 5810 30. INSTALL COOLING FAN DUCTS.

M 5810 31. INSTALL SURGE VALVE DUCTS.

M 5810 32. INSTALL GENERATOR

NOTE - LUBRICATE APU INPUT SPLINE SHAFT AND O-RINGS WITH GRE4505-1 (CMP 49-01-01).

M 5810 33. INSTALL LOP SWITCH.(ETOPS CONFIGURATION)

M 5810 34. INSTALL HOT SWITCH.

M 5810 35. INSTALL IGNITION EXCITER (ETOPS CONFIGURATION)

M 5810 36. INSTALL GENERATOR AND CONFIRM INSTALLATION OF 1 GENERATOR MAGNETIC CHIP DETECTORS (ETOPS CONFIGURATION).

M 5810 37. INSTALL IGNITION PLUG AND LEAD.

M ~~5810~~ 38. INSTALL PRISMATIC OIL LEVEL SIGHT GAGE COA 6-9237.

M 5810 39. INSTALL 331-200ER APU DATA PLATE (ETOPS CONFIGURATION) COA 5-9004.

M 5810 40. INSTALL FRONT ENGINE MOUNTS.

-------CONTINUOUS AIRWORTHINESS ITEM----------

CHECK SAFETY

M 5810 41. INSTALL OIL CAP AND ADAPTER ASSEMBLY COA 5-9110.

LM 5810 42. FINAL ASSEMBLY VERIFICATION.

A.VISUALLY VERIFY ALL PLUMBING IS PROPERLY INSTALLED.

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371TL L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

B. VISUALLY VERIFY ALL ELECTRICAL CONNECTORS ARE INSTALLED.

C. VERIFY PRESENCE AND CONDITION OF SAFETY WIRING.

D. VERIFY ENGINE ROTATES SMOOTHLY. LIMITED RUB OF SEALS IN POWER SECTION IS ACCEPTABLE.

I 43. VISUALLY VERIFY INLET IS FREE OF F.O.D.

NOTE - *VERIFY AREA IS INTACT AND FREE OF DEFECTS AND ALL DEBRIS.*
REFERENCE PAOG 45-55-30-06

END JOB V1040.0 REVISED 6/26/13

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ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

UNITED AIRLINES

GTCP331-200ER APU Engine Manual - Inspection and Condition Sheet

ENGINE
60-49-10-01-02 ICS

DISTRIBUTION 551

ENGINE S/N 62697 ORDER NO V539

VADE NO _____ CUSTOMER UA ENGINE TYPE. V

REASON FOR REMOVAL Low Bleed pressure

COMMENTS _____

DISPOSITION CODES.	E =	MODULE MEETS EID REQUIREMENTS (ZERO TIME SINCE MODULE INSPECTION) PART MEETS DETAIL PART EID REQUIREMENTS (ZERO TIME SINCE DETAIL PART INSPECTION)
	A =	EXPOSED AREA OF PART MEETS VISUAL REQUIREMENTS OF APPROPRIATE EID (CONTINUED TIME SINCE DETAIL PARTS INSPECTION)
	C =	ROUTED OR CORRECTIVE ACTION TAKEN
	ATA# S/L-SEQ	EID NUMBER [49 precedes numbers shown (49) 31 -XX] SECTION / LIST - SEQUENCE NUMBER
	OFF LOG FUNC#	STAMP TO INDICATE PART/MODULE OFF-LOG FUNCTION NUMBER

NOTE Sign off appropriate disposition code More than one code may be signed

NOTE Indicate condition of unserviceable parts regardless of disposition.

NOTE : To clear parts not exposed, draw a line through the complete entry and stamp in the left margin

NOTE · If part is routed on an R&R Tag, it is mandatory to stamp the applicable "E" or "A" Block and write "R&R" in the "C" Block. Then complete the appropriate computer transaction.

NOTE Parts having no specific EID will be visually inspected per 60-49-00-00 Book "0", Introduction, Section 4, A4.

Engine Inspection Guide·

I _____ (1) Convenience Shop Visit (CSV), Project Engine Visit (PEV) or Other Shop Visit (OTH) No parts and/or modules removed or exposed No further sign-off required.

I QC18617 (2) Engine Shop Visit (ESV), Convenience Shop Visit (CSV), Project Engine Visit (PEV) or Other Shop Visit (OTH) Parts and/or modules were removed or exposed Sign-off or void out the following items as required

Control Date 20070429

ENGINE S/N 62697 ORDER NO V539

E	A	C	ITEM NOMENCLATURE	ATA # S/L SEQ	OFFLOG FUNC #	ROUTING / CONDITION
QC18617			CLAMP, V BAND 2 EA	10-00-02 50-070	XXX 5749	
QC18617			CLAMP, V BAND	10-00-02 50-570	XXX 5575	
QC18617			CLAMP, V BAND 2 EA	10-00-02 50-580	XXX 5776	
QC18617			CLAMP, V BAND	10-00-02 50-590	XXX 5777	
QC18617			PLENUM, LOWER	21-01-00 10-275	XXX 2280	
		QC18617	PLENUM, UPPER	21-02-00 10-270	XXX 2279	damage OSV
QC18617			SCREEN, INLET	21-03-00 10-255	XXX 5737	
QC18617			COVER, MONOPOLE	21-04-00 50-140	XXX 5753	
QC18617			COVER, MONOPOLE	21-04-00 50-260	XXX 5758	
QC18617			COVER, ACCESS PORT	21-06-00 50-300	XXX 5761	
QC18617			SHAFT, QUILL	26-22-00 18-105	XXX 5683	
QC18617			SHAFT, QUILL	26-22-00 11-200	XXX 2246	
QC18617			ADAPTER	27-03-00 50-010	XXX 2235	
QC18617			TUBE, OIL COOLER LONG	27-11-00 50-610	XXX 14501	
QC18617			TUBE, OIL COOLER SHORT	27-11-00 50-620	XXX 14502	
QC18617			BRACKET, OIL COOLER	52-15-00 01-310	XXX 2266	
		QC18617	DUCT, TEE	53-00-01 50-030	XXX 2238	crk. OSV
QC18617			DUCT, SURGE	53-00-01 50-060	XXX 5748	

ENGINE S/N 62697 ORDER NO V539

E	A	C	ITEM NOMENCLATURE	ATA # / S/L SEQ	OFFLOG / FUNC #	ROUTING / CONDITION
QC18617			DUCT, ELBOW	53-00-01	XXX	
				50040	2249	
QC18617			SENSOR, STATIC	53-18-00	XXX	
				50-600	11778	
QC18617			BRACKETS	10-01-00	XXX	
				331 IPC		
QC18617			TUBING	10-01-00	XXX	
				331-IPC		
QC18617			HOSES	10-01-00	XXX	
				331-IPC		
	QC18617		GENERATOR	10-01-00	XXX	
				331-IPC		
		QC18617	MODULE, POWER SECTION	20-00-00	QC18617	Routed
				XXX	N	
		QC18617	MODULE, DRIVEN COMPRESSOR	25-00-00	QC18617	
				18-000	F	
		QC18617	MODULE, GEARBOX	26-01-00	QC18617	
				01-000	A	
		QC18617	ASSEMBLY, COOLING FAN	52-01-00	QC18617	
				03-000	5650 C	
		QC18617	ASSEMBLY, TURBINE SCAVENGE PUMP	90-05-01	XXX	
				55-010	5578 S	
		QC18617	ASSEMBLY, LUBE OIL PUMP	90-01-01	XXX	
				41-000	5724 P	

I QC18617 (3) Check Inspection and Condition Sheet for completion

1 Approving National Aviation Authority/Country FAA/United States	2.	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 314961107
4 Organization Name and Address Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM			5. Work Order/Contract/Invoice Number S9710178620

6 Item	7 Description.	8 Part Number	9. Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	FAN ASSEMBLY	3616959-6	N/A	1	P-2098	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-52-37, Rev. 4, dated 11/30/2010

UAL 60-49-20-00-AR03

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14. Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) NONGNOOCH MERCER	23 Date (m/d/y) July 30, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2.	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003521904Y15 314961107

4 Organization Name and Address		5 Work Order/Contract/Invoice Number
Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	Repair Station ZN3R030M	N/A 314957075 Page 1 of 1

6. Item	7 Description	8. Part Number	9. Eligibility*	10 Quantity	11 Serial / Batch Number:	12. Status / Work.
001	FAN ASSEMBLY	3616959-6	N/A	1	P-2098	OVERHAULED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:

CMM 49-52-37 Rev 4, NOV/30/2010

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER EASA 145 4136

14. Certifies the items identified above were manufactured in conformity to		19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No **ZN3R030M**
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed) **Andrew Kaminski**	23 Date (m d y) **JUN 21 2013**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country: FAA/United States	2.	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 315160422-001
4 Organization Name and Address Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM			5. Work Order/Contract/Invoice Number S9708178620

6 Item	7 Description	8 Part Number	9. Eligibility *	10 Quantity	11. Serial/Batch No.:	12. Status/Work.
001	PUMP ASSEMBLY LUBE	3880190-10	N/A	1	A4133	Inspected

13. Remarks

Return to service. Items provided by the customer have been serviced in accordance with 49-23-49 , Rev 36, dated 03/31/2011.

UAL 60-49-20-00/AR03

INSPECTED IN OVERHAULED CONDITION. REF FORM 8130, TRACKING NUMBER 315160422

FOR EASA CUSTOMERS ONLY: THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136.

14. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature:	16 Approval/Authorization No .	20 Authorized Signature Terry E Coulter (164)	21 Approval/Certificate No . ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) TERRY E COULTER	23 Date (m/d/y) July 26, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2.	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003554157Y15 315160422

4 Organization Name and Address.	Repair Station	5 Work Order/Contract/Invoice Number
Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	ZN3R030M	N/A 315119124 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility*	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	PUMP ASSEMBLY LUBE	3880190-10	N/A	1	A4133	OVERHAULED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH.
CMM 49-91-41 Rev 11, NOV/01/2004

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER EASA 145 4136

14. Certifies the items identified above were manufactured in conformity to	19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of federal Regulations, part 43 and in respect to that work, the items are approved for return to service.	
15 Authorized Signature / 16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No **ZN3R030M**
17 Name (Typed or Printed) / 18 Date (m d y)	22 Name (Typed or Printed) **Andrew Kaminski**	23 Date (m d y) **JUL 06 2013**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1 Approving National Aviation Authority/Country: FAA/UNITED STATES	2 **AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number: 118862

4. Organization Name and Address: **Repair Station# OA9R240X** **AERO TECHNOLOGIES, LLC.** **2200 NW 84th Ave., Miami, Florida 33122, Fax 305/436-6064, 305/436-5464**	5. Work Order/Contract/Invoice Number **118862 / S9826317939**

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	SHUTOFF VALVE	3616848-2	N/A	1	0951	REPAIRED

13. Remarks: **Work order # 118862 describing actual work performed is attached.**
Work performed has been completed IAW FAA approved data.
The Repair performed was accomplished IAW UA CMM AC-60-49-63-01 and authorized supplemental documents therein.
JD REVISION DATE 02/15/2010
Aero Technologies has verified that there are no outstanding and/or existing AD's on this unit.

Certifies that the work specified in block 12/13 was carried out in accordance with EASA PART 145 and with respect to that work the aircraft component is considered ready for release to service under EASA Approval Certificate Number 145.4199 and FAR PART 145 Air Agency Certificate number OA9R240X

14. Certifies the items identified above were manufactured in conformity to: [X] Approved design data and are in condition for safe operation. [ ] Non-approved design data specified in Block 13.	19. [X] 14 CFR 43.9 Return to Service [X] Other regulation specified in Block 13. Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.	
15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:
17. Name (Typed or Printed)	18. Date (m/d/y):	22. Name: (Typed or Printed) **LUIS ORAMAS**
		21. Approval/Certificate No.: **OA9R240X**
		23. Date (m/d/y): **Apr/23/2013**

User/Installer Responsibilities

It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an Airworthiness Authority different than the Airworthiness Authority of the country specified in block 1, it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the Airworthiness Authority of the country specified in block 1.

Statements in block 14 and 19 do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with national regulations by the user/installer before the aircraft may be flown.

1 Approving National Aviation Authority/Country	2.	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003559303Y15 315129512

4 Organization Name and Address		5 Work Order/Contract/Invoice Number
Honeywell International Inc 1 Cliff Garrett Drive Anniston AL 36201	Repair Station ZX4R716M	S9887822051 315129511 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	VALVE, SURGE CONTROL	979806-12	N/A	1	P-297C	REPAIRED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH
CMM 49-53-67 Rev 12, AUG/30/2002
CI AC-60-49-53-05-JD, OCT/02/2008
CI UAL RAS 49-53-67A-001, JAN/25/2013

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER EASA 145 4127

14 Certifies the items identified above were manufactured in conformity to		19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No **ZX4R716M**
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed) **Byron Wheatley**	23 Date (m d y) **JUL 09 2013**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003627675Y14 5006548286-3121432-1

4 Organization Name and Address		5 Work Order/Contract/Invoice Number
Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	Production Approval PT1222NM	S9708168620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	DUCT FAN INL NM	3613961-1	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS DUCT FAN INL NM IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to	19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13
☒ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
S Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J. Robinson	**AUG 09 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	UAL24855

4. Organization Name and Address: DA2R761K Honeywell International Inc dba Honeywell LORI - 6930 North Lakewood Avenue - Tulsa, Oklahoma 74117-1804	5. Work Order/Contract/Invoice Number: S9698578620

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
001	OIL COOLER	160126 -2	N/A	1	UA-39	OVERHAULED

13 Remarks

Return to Service

Work order number UAL24855 prescribing the actual work performed is attached The prescribed work was performed in accordance with FAA approved data Pertinent details of the status/work are on file at this repair station under the Work Order Number

Honeywell LORI certifies that the work specified in Block 12 / 13 was carried out in accordance with EASA Part-145 and in respect to that work the component is considered ready for release to service under EASA Part-145 Approval Number 145 4644

CMM 49-94-02 REV 5 DATE 2/20/2006

14. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13.		19. ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.: DA2R761K
17. Name (Typed or Printed):	18. Date (m d y):	22. Name (Typed or Printed): BRYAN J MYERS	23. Date (m d y): Jun/18/2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1 Approving National Aviation Authority/Country FAA/United States	2.	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 306299974
4 Organization Name and Address. Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM			5 Work Order/Contract/Invoice Number S9701448620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	DUCT TEE	3884238-2	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev 36, dated 3/31/2011

UAL 60-49-20-00-AR03

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14. Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) NONGNOOCH MERCER	23 Date (m/d/y) July 23, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2.	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003373385Y15 306299974

4 Organization Name and Address		5 Work Order/Contract/Invoice Number
Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	Repair Station ZN3R030M	N/A 306299972 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	DUCT TEE	3884238-2	N/A	1	N/A	OVERHAULED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH
IRM 49-23-49 Rev 36, MAR/31/2011

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER EASA 145.4136

14 Certifies the items identified above were manufactured in conformity to:		19 ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No **ZN3R030M**
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed) **Curtis Bebee**	23 Date (m d y) **APR 12 2013**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1. Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1 Approving National Aviation Authority/Country	2.	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003526696Y15 315076006

4 Organization Name and Address		5 Work Order/Contract/Invoice Number
Honeywell International Inc 1 Cliff Garrett Drive Anniston AL 36201	Repair Station ZX4R716M	S9887821429 314485464 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	VALVE OUTL, REGULATING, GEARBOX	3289504-2	N/A	1	46458R	REPAIRED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH
CMM 49-27-13 Rev 6, JAN/31/2003
CI AC-60-49-26-10-JD, JUN/17/2008
CI RAS 49-27-13A-001, NOV/16/2007

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER EASA 145.4127

14 Certifies the items identified above were manufactured in conformity to		19 ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No **ZX4R716M**
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed) **Arland Doss**	23 Date (m d y) **JUN 25 2013**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1. Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2	3. Form Tracking Number
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA FORM 8130-3, AIRWORTHINESS APPROVAL TA**	**121306180**

4 Organization Name and Address

Aerotron Airpower, Inc.
456 Aerotron Parkway
LaGrange, GA 30240

FAA CERTIFICATION # XJ3R973L

Phone 706 812 1700
FAX 706 812 9666

5 Work Order, Contract, or Invoice Number

121306180

Cust Ref S9888312111

6. Item	7 Description	8. Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch Number	12 Status/Work
1	**MODULE, APU FLOW SENSING**	**3885081-1** 265-9157/MR49115-40	N/A	1	**SX6607A**	**REPAIRED**

13 Remarks **CMM: 49-51-93 Rev:5 1/15/2008**

A general description of the work performed is in the attached work order document, under the part description listed in block 6,7,8,10 and 11 as applicable. A complete description of work performed is on file at the above referenced organization under the work order and system tracking reference number indicated in block 3 and 5.
Notice: An Airworthiness Directive may apply to the article(s) described hereon. The installer is responsible for ensuring complete compliance with any applicable Airworthiness Directive
Aerotron AirPower, Inc. certifies that the work specified in block 12 was carried out in accordance with EASA 145 and with respect to that work the aircraft component is considered ready for release to *service under EASA acceptance certificate number EASA.145.4067.*

AC-60-49-54-01-JD, DTD 27 OCT 2011 COMPLIED WITH

14. Certifies the items identified above were manufactured in conformity to:

- ☐ Approved design data and are in condition for safe operation
- ☑ Non-approved design data specified in Block 13.

19 ☑ 14 CFR 43 9 Return to Service ☑ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15. Authorized Signature:	16. Approval/Authorization No.:	20 Authorized Signature	21 Approval/Certificate Number
		Timothy Michael Brooks	**XJ3R973L**
17. Name (Typed or Printed):	18. Date (m/d/y):	22 Name (Typed or Printed) **Timothy Brooks**	23 Date (m/d/y) Jun/17/2013

User/Installer Responsibilities

It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft maybe flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003602470Y14 8002739573-10

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	64311790034 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10. Quantity	11 Serial / Batch Number	12 Status / Work
001	VALVE DEOILING SOL	3876166-1	N/A	1	1215028100329	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS VALVE DEOILING SOL IS A SUBCOMPONENT OF A TSO AUTHORIZATION

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Monica Hughes	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Monica Hughes	**JUL 29 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1. Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

UNITED

PSEN446A-1 UNITED AIRLINES ENGINE MAINTENANCE SYSTEM PAGE 1
06/30/13 COA SCHEDULING REPORT TIME. 21 31
COAS FOR ENTIRE ASSEMBLY REASON: REMOVAL REQUESTOR NAME: REMOVAL
ORGANIZATION:

WORK CENTER: 551

SERIAL NBR	ET	MT	NAME	PWR RTG	CUST
62697	V		APU331	200E	UA

ORDER NUMBER
V539

COA NUMBER	COA CAT	MODULE/ FUNC NBR	UNIT SERIAL	UNIT COA STATUS	ISS	COMP	COA TITLE	COMPLETION DATE
A-0004-1	6	A	P209	OPEN	62697	214386	331-200 SPUR FAN GEAR - RPL	ACCOMPLISHED AT MODULE LEVEL 214386

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, POWER SECTION

REV. 4/26/07

NV532	61646	V2000.0
ORDER NO	ENGINE NO	JOB NO

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT

214386	V0002.0	- NON-ROUTINE ACCOUNTABILITY
214386 371TL	V2010.0	49-20-02TURBINE GROUP REMOVAL
214386 371TL	V2011.0	49-20-01COMPRESSOR/COMBUSTOR DISASSEMBLY
214386 371TL	V2020.0	POWER SECTION - CLEANING
214386 371TL	V2041.0	COMPRESSOR/COMBUSTOR ASSEMBLY
214386 371TL	V2042.0	49-24-00 tURBINE GROUP ASSEMBLY
214386 371TL	V2043.0	49-20-02TURBINE GROUP INSTALLATION
	V2043.5	49-20-02TURBINE BEARING REMOVAL & INSTALLATION
		NOTE - INCLUDE 60-49-20-00-00 ICS - POWER SECTION MODULE 'NV' WITH LOG PACKAGE.
214386		

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, POWER SECTION

REV. 4/26/07

NV532	61646	V2000.0
ORDER NO	ENGINE NO	JOB NO

214386

214386

214386

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

ASSEMBLY S/N: P1392 214386

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

SIGNATURE: 214386 DATE: 8/17/13

END JOB V2000.0 REVISED 4/26/07

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-20-02TURBINE GROUP REMOVAL

REV. 11/23/12

NV532	61646	V2010.0
ORDER NO	ENGINE NO	JOB NO

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-20-02.

M 5810 1. REMOVE FLOW DIVIDER/DRAIN VALVE.

M 5810 2. REMOVE EXCITER, IGNITOR PLUG AND THERMOCOUPLES. DISCARD GASKETS.

M 5810 3. REMOVE INSULATION BLANKETS.

M 5810 4. REMOVE EXHAUST HOUSING AND MUFFLER.

M 5810 5. REMOVE FUEL MANIFOLDS. REMOVE FUEL NOZZLES AND SHROUDS. DISCARD GASKETS.

M 5810 6. REMOVE HEATSHIELD AND SCAVENGE PUMP.

M 5810 7. STRETCH TIESHAFT.

M 5810 8. DISASSEMBLE TURBINE BEARING CAPSULE. DISCARD GASKET AND SPRING WASHER. BAG TURBINE BEARING INNER AND OUTER RACE TO PRECLUDE CLEANING.

M 5810 9. REMOVE AND DISASSEMBLE TURBINE GROUP
NOTE - DISCARD USED PISTON SEAL RINGS FROM T1 STATOR AND T1 STATOR SUPPORT.

M 5810 10. IF ENGINE TSLV IS EQUAL TO OR GREATER THAN 3000 HOURS, OR IT HAS EXPERIENCED M.I.S, ROUTE TURBINE SCAVENGE PUMP.

ALL ITEMS ARE PROPERLY SIGNED OFF.

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-20-02TURBINE GROUP REMOVAL

REV. 11/23/12

NV532	61646	V2010.0
ORDER NO	ENGINE NO	JOB NO

END JOB V2010.0 REVISED 11/23/12

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-20-01COMPRESSOR/COMBUSTOR DISASSEMBLY

REV. 11/22/85

NV532	61646	V2011.0
ORDER NO	ENGINE NO	JOB NO

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-20-01.

M 5810 1. REMOVE COMBUSTOR.

M 5810 2. REMOVE INLET HOUSING.

M 5810 3. DISASSEMBLE FIRST STAGE COMPRESSOR.

M 5810 4. DISASSEMBLE SECOND STAGE COMPRESSOR.

M 5810 5. DISASSEMBLE COMPRESSOR HOUSING.

M 5810 6. DISASSEMBLE INLET HOUSING.

M 5810 7. DISASSEMBLE BEARING INLET HOUSING.

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ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-20-01COMPRESSOR/COMBUSTOR DISASSEMBLY

REV. 11/22/85

NV532	61646	V2011.0
ORDER NO.	ENGINE NO	JOB NO

END JOB V2011.0 REVISED 11/22/85

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 POWER SECTION - CLEANING

REV. 7/2/12

NV532	61646	V2020.0
ORDER NO.	ENGINE NO	JOB NO

1. U 7925 UTILITY MECHANIC (U) CLEAN POWER SECTION PARTS PER GN 4-0-3-20 PROCESS 01 (SOLVENT CLEAN), AND/OR GN 4-0-3-20 PROCESS 2C.

2. U 7925 UTILITY MECHANIC (U) CLEAN PRIMARY FUEL NOZZLES (6 EA.) P/N 3830057-7 AND SECONDARY FUEL NOZZLES (6 EA.) P/N 3830057-6, CLEAN AND PURGE FUEL NOZZLES PER GN 4-0-3-20 PROCESS 01 (WATER CLEAN), AND/OR GN 4-0-3-20 PROCESS 2C.

3. U 7925 UTILITY MECHANIC(U) CLEAN PRIMARY AND SECONDARY FUEL MANIFOLD PER GN4-0-3-20 PROCESS 01 (WATER CLEAN) AND / OR GN4-0-3-20 PROCESS 2C.

4. U 7925 FUEL NOZZLES AND MANIFOLDS HAVE BEEN PURGED AND CLEANED AND IS SAFE FOR NON-HAZMAT SHIPPING. MAKE A COPY OF JOB CARD V2020.0, AND ATTACH TO NOZZLE SET AND MANIFOLDS FOR SHIPPING.

5. U 7925 UTILITY MECHANIC (U) PLASTIC PELLET BLAST THE THE FOLLOWING PARTS PER GN 4-0-0-6 PROCESS Q-09.

   A. COMBUSTION CHAMBER.

   B. COMBUSTION CHAMBER CASE.

   C. 1ST STAGE TURBINE STATOR SUPPORT.

   D. 1ST STAGE TURBINE STATOR ASSEMBLY.

   E. 1ST STAGE TURBINE SHROUD.

   F. 1ST STAGE TURBINE WHEEL ASSEMBLY.

   G. 2ND STAGE TURBINE STATOR ASSEMBLY.

   H. 2ND STAGE TURBINE STATOR SUPPORT.

   I. 2ND STAGE TURBINE WHEEL ASSEMBLY.

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ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

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STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 POWER SECTION - CLEANING

REV. 7/2/12

NV532	61646	V2020.0
ORDER NO.	ENGINE NO.	JOB NO

J. 3RD STAGE TURBINE STATOR ASSEMBLY.

K. 3RD STAGE TURBINE WHEEL ASSEMBLY.

L. ROTOR SEAL CURVIC COUPLING.

M. HEAT SHIELD.

N. TIE SHAFT (INSIDE, SPLINED INSERT).

O. TURBINE SCAVENGE PUMPQUILL SHAFT.

6. U A 7925 UTILITY MECHANIC (U) HEAVY DUTY CAUSTIC CLEAN - NO PHOSPHORIC ACID THE FOLLOWING PARTS PER GN 4-0-3-20 PROCESS 2A: 7925

A. COMPRESSOR COUPLING STUB-SHAFT.

B. SHIELD-OIL TUBES.

C. FUEL NOZZLE SHROUDS.

D. GEAR SHAFT - (TURBINE PUMP QUILLSHAFT).

E. TURBINE OIL TUBES.

F. OIL JETS AND SPACERS.

G. TURBINE BEARING SUPPORT.

H. CURVIC COUPLING SHAFT - (TURBINE END).

I. T-BOLTS AND BEARING RETAINER.

J. TAIL CONE-SPACERS PLUS BOLTS.

K. ALL METAL CLAMPS.

END JOB V2020.0 REVISED 7/2/12

H6 Not able to accomplish 7925
7925 2A Not on this floor 7925

*Not all 7925

371TL L

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ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COMPRESSOR/COMBUSTOR ASSEMBLY

REV. 11/23/12

NV532	61646	V2041.0
ORDER NO	ENGINE NO	JOB NO

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-20-01.

M 5810 1. INSTALL LABYRINTH SEAL ON COUPLING SHAFT.

M 5810 2. ASSEMBLE BEARING INLET HOUSING.

M 5810 3. ASSEMBLE SHROUD AND INLET HOUSING ASSEMBLY.

M 5810 4. DETERMINE FIRST STAGE COMPRESSOR ZERO FACE CLEARANCE DIMENSION.

RECORD DIMENSION A 0.895

M 5810 5. INSTALL BEARING INLET HOUSING ASSEMBLY.

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ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

331-200 COMPRESSOR/COMBUSTOR ASSEMBLY

REV. 11/23/12

NV532	61646	V2041.0
ORDER NO.	ENGINE NO	JOB NO

371TL LM 5810 6. DETERMINE SHIM REQUIREMENTS FOR SHROUD AND INLET HOUSING.

0.895 DIMENSION A (FROM ABOVE)

- 0 787 DIMENSION B

= 0.108 INCH

- 0.041 INCH

= 0067 + OR - .001 INCH, REQUIRED SHIMS

****

* 0.067 REQUIRED SHIMS *
* -.067 ACTUAL SHIMS USED *
* =.0 INCH *
* + .041 INCH *
* =.041 CALCULATED C1 IMPELLER CLEARANCE *

****

M 5810 7. ASSEMBLE COMPRESSOR HOUSING.

M 5810 8. DETERMINE SECOND STAGE COMPRESSOR ZERO FACE CLEARANCE DIMENSION.

RECORD DIMENSION C 1.860

_____L ALL ITEMS ARE PROPERLY SIGNED OFF.

331-200 COMPRESSOR/COMBUSTOR ASSEMBLY

REV. 11/23/12

NV532	61646	V2041.0
ORDER NO	ENGINE NO	JOB NO.

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_____LM 5810 9. DETERMINE SHIM REQUIREMENTS FOR INLET HOUSING AND COMPRESSOR HOUSING P/N 3826138-3 BY USING FORMULA BELOW:

1.860 DIMENSION C (FROM ABOVE)

- 1.745 DIMENSION D

= 0.115 INCH

- 0.040 INCH

= 0.075 + OR - .001 INCH, REQUIRED SHIMS

****

* 0.075 REQUIRED SHIMS *

* -.075 ACTUAL SHIMS USED *

* = 0 INCH *

* + .040 INCH *

* = .040 CALCULATED C2 IMPELLER CLEARANCE *

****

M 5810 10. INSTALL COMPRESSOR HOUSING ON MAINTENANCE STAND.

M 5810 11. ASSEMBLE COMPRESSOR AND DIFFUSER ASSEMBLY.

M 5810 12. INSTALL INLET HOUSING ASSEMBLY.

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STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COMPRESSOR/COMBUSTOR ASSEMBLY

REV. 11/23/12

NV532	61646	V2041.0
ORDER NO	ENGINE NO	JOB NO

M 5810 13. INSTALL COMBUSTION CHAMBER AND COMBUSTION CHAMBER CASE.

-----CONTINUOUS AIRWORTHINESS ITEM -----
CHECK COMBUSTOR INSTALLATION.

END JOB V2041.0 REVISED 11/23/12

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ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-24-00 tURBINE GROUP ASSEMBLY

REV. 7/11/12

NV532	61646	V2042.0
ORDER NO.	ENGINE NO	JOB NO

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-24-00.

371TL LM 5810 1. MARK FIRST, SECOND, AND THIRD STAGE TURBINE STATORS FOR ALIGNMENT DURING INSTALLATION. REFERENCE SHOP PROOCEDURE 49□24□00, PAGE 703, ITEM D, NOTE 1. INSTALL NEW REPLACEMENT SEAL RINGS.

M 5810 2. MEASURE FOR T1 SHROUD SHIMS, DIMENSIONS D.

0. .011 "GAP" DIMENSION E
(AVERAGE OF BOLT HOLE LOCATIONS)

+ 0.025

= .0036 DIMENSION D
(+/□ 0.001 REQ'D T1 SHROUD SHIMS)

OR

_____ DIMENSION A

□ _____ DIMENSION B

= _____ DIMENSION C

0.025

□ _____ DIMENSION C

= _____ DIMENSION D
(+/□ 0.001 REQ'D T1 SHROUD SHIMS)

M 5810 3. MEASURE FOR T2 STATOR SUPPORT SHIMS.

RECORD DIMENSION F .027

CAUTION □ MEASURE FROM AREA AROUND BOLT HOLE FLANGE SURFACE.

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371TL L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-24-00 tURBINE GROUP ASSEMBLY

REV. 7/11/12

NV532	61646	V2042.0
ORDER NO	ENGINE NO	JOB NO

M 5810 4. ASSEMBLE TURBINE GROUP.

.036 DIMENSION D (ABOVE + OR □ 0.001 INCH)
(ACTUAL T1 SHROUD SHIMS USED)

.027 DIMENSION F (ABOVE + OR □ 0.001 INCH)
(ACTUAL T2 STATOR SUPPORT SHIMS USED)

L 371TL A. ENSURE T1 TURBINE WHEEL IS INSTALLED WITH THE THICK EDGE OF BLADES (LEADING EDGE) ARE FACING FORWARD.

END JOB V2042.0 REVISED 7/11/12

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ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-20-02TURBINE GROUP INSTALLATION

REV. 2/8/13

NV532	61646	V2043.0
ORDER NO	ENGINE NO	JOB NO

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-20-02.

ASSIGNED ENGINER ORDER NUMBER V539 214386

M 5810 1. MEASURE FOR TURBINE GROUP SHIMS.

.102 DIMENSION H

.021 DIMENSION G

M 5810 2. ASSEMBLE TURBINE GROUP AND COMPONENTS TO DETERMINE SHIM REQUIREMENTS.

371TL

LM 5810 3. ----- CONTINUOUS AIRWORTHINESS ITEM -----TURBINE TIESHAFT INSTALLATION - CHECK AND VERIFY STRETCH MEASUREMENT.

.763 DIMENSION C (BEFORE STRETCH)

2.471 DIMENSION A

2.424 DIMENSION B

=.047 STRETCH DIMENSION (LIMIT = 0.047 TO 0.050 INCH)

.828 DIMENSION C (AFTER STRETCH)

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371TL L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

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STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-20-02TURBINE GROUP INSTALLATION

REV. 2/8/13

NV532	61646	V2043.0
ORDER NO.	ENGINE NO	JOB NO

M 5810 4. VERIFY TURBINE GROUP SHIM THICKNESS.

3.717 DIMENSION J

- .102 DIMENSION H (PREVIOUSLY RECORDED)

=3.615

-2.772 TOOLING DIMENSION

= .843 BUILD DIMENSION (0.840 TO 0.843 INCH)

M 5810 5. INSTALL TURBINE BEARING SUPPORT.

.021 DIMENSION G (PREVIOUSLY RECORDED)

REQ'D. SHIMS (+ OR - 0.002 INCH)

.828 DIMENSION C (AFTER STRETCH)

514302

37171
L

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ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

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M 5810 6. DETERMINE SHIM REQUIRED FOR TURBINE BEARING SUPPORT.

4.759 DIMENSION K

- 3.603 DIMENSION L

= 1.156 DIMENSION M

****

2.297 INCH

- 1.156 DIMENSION M (ABOVE)

= 1.141

- 1.027 DIMENSION N

= 0.114 THICKNESS OF REQ'D SHIMS (+ OR - 0.001 INCH)

M 5810 7. ASSEMBLE COMPONENTS ONTO COUPLING.

NOTE - USE NEW T-BOLTS FOR ASSEMBLY OF BEARING CAPSULE.

M 5810 8. INSTALL TURBINE BEARING SUPPORT.

.828 DIMENSION C (AFTER STRETCH)

VERIFY SHAFT STRETCH IS WITHIN LIMITS.

M 5810 9. INSTALL QUILLSHAFT AND TURBINE SCAVENGE PUMP.

M 5810 10. RECORD SCAVENGE PUMP # SV 07590-3L5159588

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STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-20-02TURBINE GROUP INSTALLATION

REV. 2/8/13

NV532	61646	V2043.0
ORDER NO	ENGINE NO.	JOB NO

M 5810 11. INSTALL HEATSHIELD.

M 5810 12. INSTALL PRIMARY AND SECONDARY NOZZLE AND MANIFOLD ASSEMBLIES.

----- CONTINUOUS AIRWORTHINESS ITEM ----->CHECK BOLT AND "B" NUT TORQUE OF PRIMARY AND SECONDARY NOZZLE AND MANIFOLD ASSEMBLIES.

SAFETY PRIMARY AND SECONDARY NOZZLE ASSEMBLIES.

----- CONTINUOUS AIRWORTHINESS ITEM -----CHECK SAFETY OF PRIMARY AND SECONDARY NOZZLE ASSEMBLIES.

M 5810 13. INSTALL EXHAUST MUFFLER AND HOUSING.

M 5810 14. INSTALL INSULATION BLANKETS.

M 5810 15. INSTALL TADPOLE SEAL.

M 5810 16. INSTALL EXCITER, IGNITOR PLUG AND THERMOCOUPLES.

M 5810 17. INSTALL FLOW DIVIDER AND DRAIN VALVE.

END JOB V2043.0 REVISED 2/8/13

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ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

UNITED AIRLINES

GTCP331-200ER APU Engine Manual - Inspection and Condition Sheet

POWER SECTION MODULE
60-49-20-00-00 ICS

DISTRIBUTION 551

ENGINE S/N 616646 VADE NO. _____ CUSTOMER. UA

MODULE ORDER NO NV532 MODULE S/N P1392 MODULE N

REASON FOR REMOVAL Auto shutdown

COMMENTS: _____

DISPOSITION CODES:		
	E =	PART MEETS DETAIL PART EID REQUIREMENTS (ZERO TIME SINCE DETAIL PART INSPECTION)
	A =	EXPOSED AREA OF PART MEETS VISUAL REQUIREMENTS OF APPROPRIATE EID (CONTINUED TIME SINCE DETAIL PARTS INSPECTION)
	C =	PART ROUTED OR CORRECTIVE ACTION TAKEN
	ATA# S/L-SEQ	EID NUMBER [49 precedes numbers shown (49) 31 -XX] SECTION / LIST - SEQUENCE NUMBER
	OFF LOG FUNC#	STAMP TO INDICATE PART OFF-LOG FROM MODULE FUNCTION NUMBER

NOTE Sign off appropriate disposition code More than one code may be signed.

NOTE Indicate condition of unserviceable parts regardless of disposition

NOTE To clear parts not exposed, draw a line through the complete entry and stamp in the left margin

NOTE If part is routed on an R&R Tag, it is mandatory to stamp the applicable "E" or "A" Block and write "R&R" in the "C" Block Then complete the appropriate computer transaction

NOTE Parts having no specific EID will be visually inspected per 60-49-00-00 Book "0", Introduction, Section 4, A4

Module Inspection Guide

I _____ (1) Module inspected and found serviceable per EID 60-49-20-00-00 [ZERO Time Since Module Inspection (TSMI)] No parts removed from module No additional sign-off required

I QC18617 (2) Module partially or completely disassembled Removed parts and / or exposed areas inspected per appropriate EID (ZERO Time Since Detail Parts Inspection - TSDPI)

Control Date 20070329

ENGINE S/N: G6646 ORDER NO NV532

E	A	C	ITEM NOMENCLATURE	ATA # / S/L SEQ	OFFLOG / FUNC #	ROUTING / CONDITION
		QC18617	BEARING, THRUST	20-01-01	QC18617	scrap
				35-020	5719	
		QC18617	BEARING, ROLLER	20-01-01	QC18617	↓
				35-040	5720	
		QC18617	CARBON SEAL	20-02-00	XXX	
				35-010	5718	
		QC75564	HOUSING, INLET	22-01-00	XXX	
				20-100	2240	PRELIM 271598
QC18617			RETAINER, BRG	22-02-00	XXX	
				12-150	5672	
QC18617			INSERT, SOUND ATTENUATOR	22-03-00	XXX	
				16-010	5676	
		QC18617	HOUSING ASSY, BEARING	22-04-00	XXX	
				16-015	0999	worn OSV
		QC75564	SEAL, COUPLING SHAFT	22-05-00	XXX	
				11-110	2242	W/SHAFT
		QC75564	SHAFT, ENGINE COMPRESSOR	22-06-00	XXX	
				11-100	0998	PRELIM 312063
		QC75564	TIE SHAFT	22-07-00	XXX	
				11-090	1012	PRELIM 230783
QC18617		~~QC18617~~	INLET BELL	22-08-00	XXX	
				16-130	2278	ok
		QC18617	SHROUD, COMPRESSOR	22-09-00	XXX	
				16-140	2277	worn OSV
		QC75564	IMPELLER, C1	22-10-00	QC75564	
				11-030	0993	PRELIM 278304
		QC18617	DIFFUSER ASSY, C1	22-11-00	XXX	
				16-120	0994	worn OSV
		QC18617	HOUSING ASSY, COMPRESSOR	22-12-00	XXX	
				16-080	2252	worn OSV
		QC75564	IMPELLER, C2	22-13-00	QC75564	
				11-045	0995	PRELIM 312271
		QC18617	DIFFUSER, C2	22-14-00	XXX	
				16-100	0996	worn OSV
		QC18617	DESWIRL ASSY	22-15-00	XXX	
				16-020	0997	worn OSV

ENGINE S/N 616446 ORDER NO. NV532

E	A	C	ITEM NOMENCLATURE	ATA # S/L SEQ	OFFLOG FUNC #	ROUTING / CONDITION
		QC18617	LINER ASSY, COMB TRANSITION	22-16-00 16-030	XXX 1000	crk OSV
		QC18617	LABYRINTH SEAL	22-17-00 16-040	XXX 2261	worn OSV
QC18617			MOUNT, AFT 2EA	22-20-00 16-420	XXX 2257	
QC18617			SUPPORT, INLET HOUSING	22-20-00 16-400	XXX 5679	
		QC18617	ROTOR, SEAL	22-22-00 35-060	XXX 2256	OSV
QC18617			BRACKET, IGNITION UNIT	22-99-00 16-440	XXX 13350	
QC18617			BRACKET, FLOW DIVIDER	22-99-00 16-450	XXX 13351	
QC18617			HEATSHIELD, MOUNT	22-99-00 16-430	XXX 13335	
QC18617			HEATSHIELD, MOUNT 2 EA	22-99-00 16-460	XXX 13352	
QC18617			HEATSHIELD, FLOW DIVIDER	22-99-00 16-470	XXX 13353	
QC18617			HEATSHIELD, IGNITION UNIT	22-99-00 16-480	XXX 13354	
		QC18617	CHAMBER, COMBUSTION	23-01-00 20-010	XXX QC18617 1002	crk OSV
QC18617			RING, CONTAINMENT	23-02-00 20-030	XXX 2258	
		QC18617	CASE, COMBUSTION CHAMBER	23-04-00 20-020	 1001	552 303649
QC18617			RING, SPLIT	23-05-00 20-090	XXX 2259	
QC18617			COUPLING & SEAL	23-06-00 11-050	XXX 1097	
QC18617		QC18617	SHROUD, FUEL NOZZLE 12 EA	23-32-00 20-540	XXX 2234	4ea OSV
QC18617			RETAINER, FUEL NOZZLE 12 EA	23-33-00 20-550	XXX 14520	

ENGINE S/N 616460 ORDER NO NV532

E	A	C	ITEM NOMENCLATURE	ATA # / S/L SEQ	OFFLOG / FUNC #	ROUTING / CONDITION
		QC18617	SUPPORT, T1 STATOR	24-01-00 / 30-020	XXX / 2260	crk osv
		QC18617	PISTON RING	BOOK 0 / 31-220	XXX / 13363	SCRAP 100%
		QC75564	STATOR ASSY, T1	24-02-00 / 31-010	XXX / 2286	DISSY 651604
		QC75564	STATOR VANE, T1	24-02-01 / 31-011	QC75564 / 1005	ROUTED
		QC18617	SEAL, T1 RING	BOOK 0 / 31-013	XXX / 13362	SCRAP 100%
		QC75564	WHEEL ASSY, T1	24-03-00 / 30-031	XXX / 5710	DISSY
		QC75564	DISK, T1	24-03-01 / 30-030	QC75564 / 1004	PRELIM 609739
		QC75564	BLADES, T1	24-03-02 / 32-170	XXX / 1003	ROUTED
		QC18617	SHROUD, T1	24-04-00 / 31-080	XXX / 2262	crk osv
		QC75564	STATOR ASSY, T2	24-05-00 / 31-060	XXX / 2281	DISSY 305769
		QC75564	STATOR VANE, T2	24-05-01 / 31-061	XXX / 1008	ROUTED
		QC75564	LABRYNTH SEAL, T2	24-05-03 / 31-063	XXX / 2287	ROUTED
		QC18617	SUPPORT, T2 STATOR	24-06-00 / 31-050	XXX / 2263	crk osv
		QC75564	WHEEL ASSY, T2	24-07-00 / 30-041	XXX / 5711	DISSY
		QC75564	DISK, T2	24-07-01 / 30-040	QC75564 / 1007	PRELIM 633972
		QC75564	BLADES, T2	24-07-02 / 32-100	XXX / 1006	ROUTED
		QC75564	STATOR ASSY, T3	24-08-00 / 31-070	XXX / 2288	DISSY 243866
		QC75564	STATOR VANE, T3	24-08-01 / 31-071	XXX / 1010	ROUTED

ENGINE S/N 616646 ORDER NO MV532

E	A	C	ITEM NOMENCLATURE	ATA # / S/L SEQ	OFFLOG / FUNC #	ROUTING / CONDITION
		QC75564	LABRYNITH SEAL, T3	24-08-03	XXX	
				31-073	2283	ROUTED
		QC75564	WHEEL ASSY, T3	24-09-00	QC75564	
				30-061	1009	PRELIM 303807
QC18617			SUPPORT, TURBINE BEARING	24-10-00	XXX	
				20-025	1011	
		QC18617	COUPLING ROTOR	24-11-00	XXX	
				30-100	1091	WORN OSV
QC18617			SUPPORT, BEARING	24-13-00	XXX	
				12-020	5665	
		QC18617	TENSION WASHER	BOOK 0	XXX	SCRAP 100%
				12-030	5666	
		QC18617	HEATSHIELD	24-14-00	XXX	
				20-120	2250	552 303647
		QC18617	MUFFLER, EXHAUST	24-16-00	XXX	
				31-210	1013	cracked out OSV
QC18617			HOUSING, MUFFLER	24-17-00	XXX	
				31-200	2253	
		QC18617	GASKET, CURVIC COUPLING 2 EA	24-34-00	XXX	
				30-090	5714	SCRAP
		QC18617	GASKET, CURVIC COUPLING	24-34-00	XXX	
				30-070	5712	
		QC18617	GASKET, CURVIC COUPLING	24-34-00	XXX	
				30-080	5713	
		QC18617	GASKET, CURVIC COUPLING	24-34-00	XXX	
				30-110	5715	
QC18617			NUT	24-35-00	XXX	
				12-080	5671	
QC18617			RETAINER, BEARING	24-37-00	XXX	
				35-050	5721	
		QC18617	SEAL ASSY, CARBON TURBINE	24-42-00	XXX	
				12-010	2264	MISSING
QC18617			CONE, TURBINE TAIL	24-43-00	XXX	
				55-100	5787	
QC18617			BRACKET, DRAIN	27-04-00	XXX	
				50-220	2270	

ENGINE S/N 616446 ORDER NO. NV532

E	A	C	ITEM NOMENCLATURE	ATA # S/L SEQ	OFFLOG FUNC #	ROUTING / CONDITION
QC18617		QC18617	SHIELD ASSY, OIL INLET AND OUTLET	27-05-00 50-400	XXX 5766	1ea OSV
		QC18617	TUBE, OIL INLET	27-05-01 60-630	XXX 14939	worn OSV
		QC18617	TUBE, OIL OUTLET	27-05-01 50-640	XXX 14940	" "
QC18617			TUBE, VENT	27-06-00 50-430	XXX 5765	
		QC18617	BLANKET, INSULATION	27-10-00 50-400	XXX 5762	crk OSV
QC18617			BLANKET, INSULATION	27-10-00 50-410	XXX 5763	
QC18617			BLANKET, INSULATION	27-10-00 50-420	XXX 5764	
		QC18617	BLANKET, INSULATION	27-10-00 50-460	XXX 5768	crk OSV
		QC18617	BLANKET, INSULATION	27-10-00 50-450	XXX 5767	" "
QC18617			BLANKET, INSULATION	27-10-00 50-470	XXX 5769	
QC18617			BLANKET, INSULATION	27-10-00 50-490	XXX 5771	
QC18617			BLANKET, INSULATION	27-10-00 50-480	XXX 5770	
QC18617			MANIFOLD, FUEL PRIMARY	10-01-00 20-520	XXX 5699	
QC18617			MANIFOLD, FUEL SECONDARY	10-01-00 20-530	XXX 5700	
		QC18617	FUEL NOZZLE, PRIMARY	10-01-00 20-499	QC18617 1014	Rowld OSV
		QC18617	FUEL NOZZLE, SECONDARY	10-01-00 20-509	QC18617 1015	
		QC18617	TURBINE SCAVENGE PUMP	90-05-01 55-010	XXX 5778	

I QC18617 (3) Check Inspection and Condition Sheet for completion

1 Approving National Aviation Authority/Country FAA/United States	2.	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 314369868-001

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9691388620

6 Item	7 Description	8 Part Number	9 Eligibility	10 Quantity	11 Serial/Batch No	12 Status/Work
001	WHEEL ASSY, TURBINE, AXIAL, 3RD STG	3840022-4	N/A	1	070134502190	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev 36, dated 3/31/2011

UAL 60-49-20-00/AR03

INSPECTED IN OVERHAULED CONDITION, REF FORM 8130 TRACKING NUMBER 314369868

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature Terry E. Coulter 164	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) TERRY E COULTER	23 Date (m/d/y) June 21, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does *not* automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential *that the* user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases *aircraft maintenance* records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003407655Y15 314369868

4 Organization Name and Address		5 Work Order/Contract/Invoice Number
Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	Repair Station ZN3R030M	N/A 314350298 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	WHEEL ASSY, TURBINE, AXIAL, 3RD STG	3840022-4	N/A	1	070134502190	OVERHAULED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH
IRM 49-23-49 Rev 36, MAR/31/2011
ORI P30546 Rev B, JUN/25/2010
ORI P32166 Rev NC, APR/23/2008

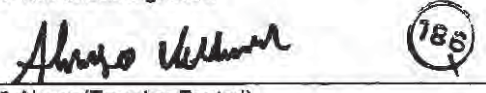
Cafe Report and LLC Attached

Additional Information

TSN 6780
CSN 11789

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER EASA 145.4136

14 Certifies the items identified above were manufactured in conformity to		19 ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
			**ZN3R030M**
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed) **J Alfonso Velderrain**	23 Date (m d y) **APR 29 2013**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1. Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

Honeywell

ULTIMATE LIFE PART CARD

Part Name **3RD. STAGE TURBINE WHEEL.ASSY.** Disk Part Number N/A

Serial Number 070134502190 Assy Part Number 3840022-4

DATE INTALLED	DATE REMOVED	ENGINE SERIAL NUMBER	AIRCRAFT SERIAL NUMBER	TIME ON PART THIS INSTALLATION CYCLES	TIME ON PART THIS INSTALLATION HOURS	TOTAL TIME ON PART CYCLES	TOTAL TIME ON PART HOURS	REMARKS
UNK	[redacted]	UNK		0	0 0	0	0.0	
[redacted]	03/27/13	UNK				11789	6780	HONEYWELL ZN3R030M
8/14/13	[redacted]	62697		/	/	11789	6780	[redacted]
[redacted]								
	[redacted]							
[redacted]								
	[redacted]							
[redacted]								
	[redacted]							
[redacted]								
	[redacted]							
[redacted]								
	[redacted]							

AX-6167-3

ULTIMATE LIFE PART REPAIR RECORD

DATE	MAINTENANCE PERFORMED	AUTHORIZED SIGNATURE
03/27/13	6780 HOURS 11789 CYCLES THIS LIFE LIMIT CARD RECONSTRUCTED	HONEYWELL ZN3R030M
	FROM INFORMATION SUPPLIED BY THE CUSTOMER ALL INFORMATION	
	IS ON FILE AT THE REPAIR STATION UNDER SERVICE ORDER 5006192515	
13	TSN 6780 CSN 11789 OVERHAULED IAW ICM 49-28-49	Honeywell ZN3R030M
29	REV 36, ORI P30546 REV. 6, ORI P32466 REV NC	
4	NOTIFICATION 3143698468	A Vollrath (186)

1 Approving National Aviation Authority/Country FAA/United States	2.	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 314306720
4 Organization Name and Address Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM			5 Work Order/Contract/Invoice Number S9697008620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	COMPRESSOR ROTOR, CENTRIFUGAL, SECOND ST	3822068-1	N/A	1	030322900940	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev 36, dated 3/31/2011

UAL 60-49-20-00-AR03

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) NONGNOOCH MERCER	23 Date (m/d/y) July 23, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2.	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003548835Y15 314306720

4 Organization Name and Address		5 Work Order/Contract/Invoice Number
Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	Repair Station ZN3R030M	N/A 314181098 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	COMPRESSOR ROTOR, CENTRIFUGAL, SECOND ST	3822068-1	N/A	1	030322900940	OVERHAULED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH
IRM 49-23-49 Rev 36, MAR/31/2011

ORI P31497 Rev D, DEC/10/2009

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to	19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature David Cotey 21 Approval/Certificate No **ZN3R030M**
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed) **David Cotey** 23 Date (m d y) **JUL 03 2013**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

Honeywell

ULTIMATE LIFE PART CARD

Part Name **COMPRESSOR ROTOR** Disk Part Number

Serial Number 030322900940 Assy Part Number 3822068-1

DATE INTALLED	DATE REMOVED	ENGINE SERIAL NUMBER	AIRCRAFT SERIAL NUMBER	TIME ON PART THIS INSTALLATION CYCLES	TIME ON PART THIS INSTALLATION HOURS	TOTAL TIME ON PART CYCLES	TOTAL TIME ON PART HOURS	REMARKS
8/14/13	[redacted]	62697		UNK	UNK	UNK	UNK	
[redacted]				Ø	Ø	UNK	UNK	QC75564
	[redacted]							
[redacted]								
	[redacted]							
[redacted]								
	[redacted]							
[redacted]								
	[redacted]							
[redacted]								
	[redacted]							
[redacted]								
	[redacted]							

AX-6167-3

ULTIMATE LIFE PART REPAIR RECORD

DATE	MAINTENANCE PERFORMED	AUTHORIZED SIGNATURE
7/3/13	OVERHAULED IAW 49-23-49 REV. 36	~~Honeywell~~ ZN3R030M
	ORI P31497 TSN: UNK CSN: UNK	

CERTIFIED TRUE COPY of Document held by Dixie QA

Dixie Document # E62566 Invoice #: B27SWR0 Your P.O. # 2653238002

OMB Control No 2120-0018
09/30/2007

1 Approving National Aviation Authority/Country	2.	3. Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	2013D0673
4. Organization Name and Address: Wencor, LLC – 473 Dividend Drive Peachtree City, GA 30269 U S A. PQ1370NM		5. Work Order/Contract/Invoice Number: I56033 / GM2FAVDPS

6. Item	7. Description.	8. Part Number	9. Eligibility *	10. Quantity	11. Serial/Batch Number	12. Status/Work.
1	BEARING, BALL	3613827-1WE	N/A	12	SEE BELOW	NEW

13. Remarks:

AIRWORTHINESS APPROVAL – For Domestic Shipments Only

For complete eligibility, see www.wencor.com

This part is not a critical component.

Lot/Batch Number MSPF790

Serial Numbers F13-3201, F13-3270, F13-3269, F13-3200, F13-3272, F13-3205, F13-3226, F13-3254, F13-3234, F13-3278, F13-3253, F13-3274

14. Certifies the items identified above were manufactured in conformity to:	19. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13
☑ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13.	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the item is approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
Digitally signed by G. Randall Burton DN: cn=G. Randall Burton, o, ou, email=rburton@wencor.com, c=US Date: 2013.06.27 12:22:51 -04'00'	DARF830583CE	N/A	N/A
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
G Randall Burton	JUN/27/2013	N/A	N/A

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

FAA Form 8130-3 (6-01) *Installer must cross-check eligibility with applicable technical data. NSN 0052-00-012 9005

E62566

Dixie Aerospace A MSP

Dixie Aerospace, LLC

473 Dividend Dr
Peachtree City, GA 30269
Phone (678)490-0140 Fax (770)632-7637
sales@dixieaerospace com

Date 6/28/13
Page 1

PACKING LIST
CERTIFICATE OF CONFORMANCE
NUMBER B27SWR0

PO : Inv

CUSTOMER P O #	SHIP VIA	TERMS	BILL OF LADING NUMBER	WEIGHT	CARTONS	SALES REPRESENTATIVE
26532380027	FE2	N30	00560481590304	7 00	1	Chris Harris

Ship To
UNITED AIRLINES / SFOJE
MAINT OPERATINS CENTER
SAN FRANCISCO INTL AIRPRT
BUILDING 84 DOOR 9
SAN FRANCISCO , CA 94128

Account # UAL201

Bill To
UNITED AIRLINES-ISA
ACCOUNTING DEPARTMENT
PO BOX 4607
HOUSTON , TX 77210
847-700-5228

Ship Line Num	Part Number / Description	Quantity Ordered	Quantity This Shipment	Quantity Backorder	Manufacturer CAGE	Batch Number	Manufacture, Lube, Cure or Expiration Date	Document Control Number
1	3613827-1WE	4	4					
	BEARING, ANNULAR BALL		1		26647	MSPF790	Mfg. 6/01/13	E62566
			1		26647	MSPF790	Mfg 6/01/13	E62566
			1		26647	MSPF790	Mfg 6/01/13	E62566
			1		26647	MSPF790	Mfg 6/01/13	E62566

packlist07/01/01

DIXIE CERTIFIES THAT THE PARTS LISTED ARE NEW (NOT SURPLUS) AND HAVE BEEN MANUFACTURED IN ACCORDANCE WITH APPLICABLE DRAWINGS AND STANDARDS, THAT THESE PARTS MEET THOSE DRAWINGS AND STANDARS REQUIREMENTS

WHILE STORED WITHIN OUR FACILITY PRODUCTS ARE NOT EXPOSED TO MERCURY

Tony Flores

INSPECTOR

IT IS YOUR RESPONSIBILITY TO OBTAIN A VALIDATED EXPORT LICENSE FOR THIS MATERIAL FROM THE DEPARTMENT OF STATE OR THE DEPARTMENT OF COMMERCE IF SO REQUIRED UNDER THE APPLICABLE U S GOVERNMENT EXPORT CONTROL REGULATION THE ABOVE MATERIAL IS NOT TO BE SHIPPED TO ANY COUNTRY THAT HAS AN EMBARGO PLACED ON IT BY THE U S GOVERNMENT

1. PART OR MATERIAL CERTIFICATION FORM

ATA Specification 106

2 Seller's Name	3 Reference #
Dixie Aerospace, LLC	UAL201-B27SWR0

4 Organization	
Dixie Aerospace, LLC Address: 473 Dividend Dr. Peachtree City, GA 30269	Phone # (678)490-0140 Fax # (770)632-7637 SITA/Wire Code ATLDBXD sales@dixieaerospace.com Status Parts Manufacturing Authority Repair Station New Parts Distributor

5a Seller's Contract #	5b Buyer's Contract #
B27SWR0	26532380027

6 Item	7 Description	8 Manufacturer & Part Number	9 Eligibility	10. Qty	11 Serial/Batch Number	12 Status
1	BEARING, ANN	3613827-1WE	See NPD Note	1	E62566 / MSPF790	NEW
2	BEARING, ANN	3613827-1WE	See NPD Note	1	E62566 / MSPF790	NEW
3	BEARING, ANN	3613827-1WE	See NPD Note	1	E62566 / MSPF790	NEW
4	BEARING, ANN	3613827-1WE	See NPD Note	1	E62566 / MSPF790	NEW

13a Remarks

NPD Note: New Part Distribution. Various eligibility.

13b Obtained From	13c Last Certificated Agency
N/A	N/A

14 New Parts/Material Verification	18 Used,Repaired or Overhauled Parts Verification
The following signature attests that the part(s) or Material(s) identified above was (were) manufactured by a FAA Production Approval Holder (PAH), or to an industry or commercial standard	The following signature attests that the documentation specified above or attached is accurate with regard to the item(s) described
15 Signature: Tony Flores	19. Signature: N/A
16 Name: Tony Flores 17 Date: JUN/28/2013	20 Name: N/A 21 Date

NOTICE The above signature binds the seller and the SIGNER to the accuracy of the information provided in the Form Should the information provided in this Form contain inaccuracies of misrepresentations, the signer and the SELLER may be liable for damages and be subject to criminal prosecution under state and federal law

(Revised August 15, 1995)

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	000323088

4. Organization Name and Address	5. Work Order/Contract/Invoice Number:
Honeywell International Inc 111 S 34th Street Phoenix, Arizona 85072 PRODUCTION APPROVAL PT1222NM B/E AEROSPACE CONSUMABLES MANAGEMENT 480 N 54TH STREET, SUITE 8 CHANDLER, AZ 85226	8K2146 001 Page 4 of 7

6 Item.	7 Description.	8. Part Number:	9. Eligibility *	10. Quantity:	11. Serial/Batch Number	12. Status/Work:
001	BEARING	3822099-1	N/A		SN13-162255-06235 SN13-162255-06236 SN13-162255-06237 SN13-162255-06238 SN13-162255-06239 SN13-162255-06240 SN13-162255-06241 SN13-162255-06242	NEW

13. Remarks

AIRWORTHINESS APPROVAL
DIRECT SHIPMENT AUTHORIZATION
Customer P O # 26504620046

This BEARING is a subcomponent of a TSO authorization

14 Certifies the items identified above were manufactured in conformity to:

☒ **Approved design data and are in a condition for safe operation**
☐ **Non-approved design data specified in Block 13.**

19. ☐ **14 CFR 43.9 Return to Service** ☐ **Other regulation specified in Block 13**

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15. Authorized Signature	16 Approval/Authorization No	20. Authorized Signature	21 Approval/Certificate No.
	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y):**	**22. Name (Typed or Printed)**	**23 Date (m d y)**
Syed Hossain	MAY 22 2013		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003457502Y15 314679635

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International Inc Nádražní 400 783 66 HLUBOČKY - MARIÁNSKÉ ÚDOLÍ CZECH REPUBLIC Repair Station MXHY520X	4622285 314642103 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	COMBUSTION CHAMBER, ANNULAR	3830061-5	N/A	1	N/A	OVERHAULED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH
IRM 49-23-49 Rev 36
ORI P34516 Rev D

Traceability Number 3300-4622285 R

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER EASA CZ 145 0034

14 Certifies the items identified above were manufactured in conformity to	19
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
		authority per FAR 145 OP 011/2008	**MXHY520X**
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed) **Petr Balaz**	23 Date (m d y) **MAY 23 2013**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1 it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country FAA/United States	2.	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 314679635-001
4 Organization Name and Address Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034		FAA Certificate # ZN3RO3OM	5 Work Order/Contract/Invoice Number S9687098620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	COMBUSTION CHAMBER, ANNULAR	3830051-5	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49 , Rev 36, dated 3/31/2011

UAL 60-49-20-00/AR03

INSPECTED IN OVERHAULED CONDITION, REF FORM 8130 TRACKING NUMBER 314679635

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature 164	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) TERRY E COULTER	23 Date (m/d/y) June 3, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003471151Y14 5006334755-2997477-8

4 Organization Name and Address	Production Approval		5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9687098620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	STATOR TURB 1STG	3844038-4	N/A	1	13-150323-02331	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS STATOR TURB 1STG IS A SUBCOMPONENT OF A TSO AUTHORIZATION

14 Certifies the items identified above were manufactured in conformity to

- [x] Approved design data and are in a condition for safe operation
- [ ] Non-approved design data specified in Block 13

19 [ ] 14 CFR 43 9 Return to Service [ ] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Stephen J. Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J. Robinson	**MAY 30 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country FAA/United States	2	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 30871639-001
4 Organization Name and Address Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM			5 Work Order/Contract/Invoice Number S9697008620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	NOZZLE ASSY, FUEL	3830057-7	N/A	1	1HA05265	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49 , Rev 36, dated 3/31/2011

UAL 60-49-20-00/AR03

INSPECTED IN OVERHAULED CONDITION, REF. FORM 8130 TRACKING NUMBER 30871639

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature 164	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) TERRY E COULTER	23 Date (m/d/y) July 23, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

OMB Control No 2120-0018
09/30/2007

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1 Approving National Aviation Authority / Country	2	3 Form Tracking Number
FAA / UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG**	00000000000002227128 30871639 Page 1 of 1

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Delavan Inc 811 FOURTH STREET WEST DES MOINES, IA 50265-0100 USA CERTIFICATE #KT2R964K	4889850 3500135723

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch Number	12 Status/Work
01	331-250 NOZZLE ASSY	68009-7 (3830057-7)	N/A	1	SN 1HA05265	OVERHAULED

13 Remarks
Purpose Approval for Return to Service
OVERHAULED in accordance with CMM CMM-49-31-13 Revision 7 Rev Date 09/29/2000

Certifies that the work specified in block 12/13 was carried out in accordance with EASA Part 145 and in respect to that work the component is considered ready for release to service under EASA Part 145 Approval Number EASA 145 4378

14 Certifies the items identified above were manufactured in conformity to:

[ ] Approved design data and are in a condition for safe operation.

[ ] Non-approved design data specified in Block 13.

19

[X] 14 CFR 43 9 Return to Service [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval / Authorization No	20 Authorized Signature	21 Approval / Certificate No
		Sandy Wolfe	KT2R964K
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
		SANDY WOLFE	JUN 18 2013

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

FAA Form 8130-3 (6-01)

* Installer must cross check eligibility with applicable technical data NSN 0052-00-012-9005

Paperwork Reduction Act Statement
An agency may not conduct or sponsor and a person is not required to respond to a collection of information unless it displays a current with this collection of information is 2120-0018 Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at. 800 Independence Ave. SW Washington, DC 20591 Attn Information Collection Clearance Officer ABA-20

1 Approving National Aviation Authority/Country FAA/United States	2.	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 30871667-001
4 Organization Name and Address Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM			5 Work Order/Contract/Invoice Number S9697008620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	NOZZLE ASSY, FUEL	3830057-7	N/A	1	PW1-0629	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49 , Rev· 36, dated 3/31/2011

UAL 60-49-20-00/AR03

INSPECTED IN OVERHAULED CONDITION, REF FORM 8130 TRACKING NUMBER 30871667

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature Terry E Coulter 164	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) TERRY E COULTER	23 Date (m/d/y) July 23, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

(114)

OMB Control No 2120-0018
09/30/2007

1 Approving National Aviation Authority / Country	2	3 Form Tracking Number
FAA / UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG**	00000000000002227177 30871667 Page 1 of 1

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Delavan Inc 811 FOURTH STREET WEST DES MOINES, IA 50265-0100 USA CERTIFICATE #KT2R964K	4889846 3500136437

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch Number	12 Status/Work.
01	331-250 NOZZLE ASSY	68009-7 (3830057-7)	N/A	1	SN PW1-0629	OVERHAULED

13 Remarks
Purpose Approval for Return to Service
OVERHAULED in accordance with CMM CMM-49-31-13 Revision 7 Rev Date 09/29/2000

Certifies that the work specified in block 12/13 was carried out in accordance with EASA Part 145 and in respect to that work the component is considered ready for release to service under EASA Part 145 Approval Number EASA 145 4378

14 Certifies the items identified above were manufactured in conformity to:	19
[ ] Approved design data and are in a condition for safe operation. [ ] Non-approved design data specified in Block 13	[X] 14 CFR 43 9 Return to Service [X] Other regulation specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval / Authorization No.	20 Authorized Signature	21 Approval / Certificate No
		Sandy Wolfe	KT2R964K
17 Name (Typed or Printed):	18 Date (m d y):	22 Name (Typed or Printed) SANDY WOLFE	23 Date (m d y) JUN 18 2013

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

FAA Form 8130-3 (6-01)

* Installer must cross check eligibility with applicable technical data NSN 0052-00-012-9005

Paperwork Reduction Act Statement.
An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a current with this collection of information is 2120-0018 Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at 800 Independence Ave. SW, Washington, DC 20591, Attn Information Collection Clearance Officer ABA-20

1 Approving National Aviation Authority/Country FAA/United States	2.	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 30871632-001

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9697008620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	NOZZLE ASSY, FUEL	3830057-7	N/A	1	1BKR1066	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49 , Rev 36, dated 3/31/2011

UAL 60-49-20-00/AR03

INSPECTED IN OVERHAULED CONDITION, REF FORM 8130 TRACKING NUMBER 30871632

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14. Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature Terry E. Coulter 164	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) TERRY E COULTER	23 Date (m/d/y) July 23, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

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OMB Control No 2120-0018
09/30/2007

1 Approving National Aviation Authority / Country	2	3 Form Tracking Number
FAA / UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG**	00000000000002227116 30871632 Page 1 of 1
4 Organization Name and Address	Delavan Inc 811 FOURTH STREET WEST DES MOINES, IA 50265-0100 USA CERTIFICATE #KT2R964K	5 Work Order/Contract/Invoice Number 4858012 3500111945

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch Number	12 Status/Work.
01	331-250 NOZZLE ASSY	68009-7 (3830057-7)	N/A	1	SN 1BKR1066	OVERHAULED

13 Remarks
Purpose Approval for Return to Service
OVERHAULED in accordance with CMM CMM-49-31-13 Revision 7 Rev Date 09/29/2000

Certifies that the work specified in block 12/13 was carried out in accordance with EASA Part 145 and in respect to that work the component is considered ready for release to service under EASA Part 145 Approval Number EASA 145 4378

14. Certifies the items identified above were manufactured in conformity to:	19
☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13.	[X] 14 CFR 43 9 Return to Service [X] Other regulation specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service

15. Authorized Signature:	16. Approval / Authorization No.:	20 Authorized Signature	21 Approval / Certificate No
		Sandy Wolfe	KT2R964K
17. Name (Typed or Printed):	**18. Date (m.d.y):**	22 Name (Typed or Printed)	23 Date (m d y)
		SANDY WOLFE	JUN 18 2013

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

FAA Form 8130-3 (6-01)

* Installer must cross check eligibility with applicable technical data NSN 0052-00-012-9005

Paperwork Reduction Act Statement.
An agency may not conduct or sponsor and a person is not required to respond to, a collection of information unless it displays a current with this collection of information is 2120-0018 Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at 800 Independence Ave SW, Washington DC 20591, Attn Information Collection Clearance Officer, ABA-20

1 Approving National Aviation Authority/Country FAA/United States	2.	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 30871563-001
4 Organization Name and Address Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM			5 Work Order/Contract/Invoice Number S9697008620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	NOZZLE ASSY, FUEL	3830057-7	N/A	1	1PV08194	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49 , Rev 36, dated 3/31/2011

UAL 60-49-20-00/AR03

INSPECTED IN OVERHAULED CONDITION, REF FORM 8130 TRACKING NUMBER 30871563

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature Terry E. Coulter 164	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) TERRY E COULTER	23 Date (m/d/y) July 23, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

OMB Control No 2120-0018
09/30/2007

AUTHORIZED RELEASE CERTIFICATE

FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG

1 Approving National Aviation Authority / Country	2	3 Form Tracking Number
FAA / UNITED STATES		00000000000002227003 30871563 Page 1 of 1

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Delavan Inc 811 FOURTH STREET WEST DES MOINES, IA 50265-0100 USA CERTIFICATE #KT2R964K	4889078 3500137668

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch Number	12 Status/Work
01	331-250 NOZZLE ASSY	68009-7 (3830057-7)	N/A	1	SN 1PV08194	OVERHAULED

13 Remarks
Purpose Approval for Return to Service
OVERHAULED in accordance with CMM CMM-49-31-13 Revision 7 Rev Date 09/29/2000

Certifies that the work specified in block 12/13 was carried out in accordance with EASA Part 145 and in respect to that work the component is considered ready for release to service under EASA Part 145 Approval Number EASA 145 4378

14. Certifies the items identified above were manufactured in conformity to:

[ ] Approved design data and are in a condition for safe operation.

[ ] Non-approved design data specified in Block 13.

19

[X] 14 CFR 43 9 Return to Service [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service

15. Authorized Signature	16. Approval / Authorization No.	20 Authorized Signature	21 Approval / Certificate No
		Sandy Wolfe	KT2R964K
17. Name (Typed or Printed)	18. Date (m d y)	22 Name (Typed or Printed)	23 Date (m d y)
		SANDY WOLFE	JUN 18 2013

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

FAA Form 8130-3 (6-01)

* Installer must cross check eligibility with applicable technical data NSN 0052-00-012-9005

Paperwork Reduction Act Statement.
An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a current with this collection of information is 2120-0018 Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at 800 Independence Ave. SW, Washington, DC 20591, Attn Information Collection Clearance Officer, ABA-20

1 Approving National Aviation Authority/Country FAA/United States	2.	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 30864714-001

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9697008620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	NOZZLE ASSY, FUEL	3830057-7	N/A	1	1BFL1773	Inspected

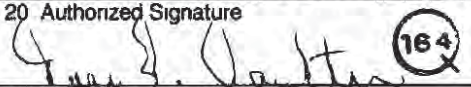
13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49 , Rev 36, dated 3/31/2011

UAL 60-49-20-00/AR03

INSPECTED IN OVERHAULED CONDITION, REF FORM 8130 TRACKING NUMBER 30864714

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature 	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) TERRY E COULTER	23 Date (m/d/y) July 23, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

OMB Control No 2120-0018
09/30/2007

AUTHORIZED RELEASE CERTIFICATE

FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG

1 Approving National Aviation Authority / Country	FAA / UNITED STATES
2	AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG
3 Form Tracking Number	00000000000002210963 30864714 Page 1 of 1
4 Organization Name and Address	Delavan Inc 811 FOURTH STREET WEST DES MOINES, IA 50265-0100 USA CERTIFICATE #KT2R964K
5 Work Order/Contract/Invoice Number	4871033 3500122014

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch Number	12 Status/Work
01	331-250 NOZZLE ASSY	68009-7 (3830057-7)	N/A	1	SN 1BFL1773	OVERHAULED

13 Remarks
Purpose Approval for Return to Service
OVERHAULED In accordance with CMM CMM-49-31-13 Revision 7 Rev Date 09/29/2000

Certifies that the work specified in block 12/13 was carried out in accordance with EASA Part 145 and in respect to that work the component is considered ready for release to service under EASA Part 145 Approval Number EASA 145 4378

14 Certifies the items identified above were maintained in conformity to:

☐ Approved design data and are in condition for safe operation

☐ Non-approved design data specified in Block 13

19

☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval / Authorization No	20 Authorized Signature	21 Approval / Certificate No
		Sandy Wolfe	KT2R964K
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed)	23 Date (m d y)
		SANDY WOLFE	JUN 07 2013

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

FAA Form 8130-3 (6-01)

* Installer must cross check eligibility with applicable technical data NSN 0052-00-012-9005

Paperwork Reduction Act Statement:
An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a current with this collection of information is 2120-0018 Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at 800 Independence Ave SW, Washington, DC 20591, Attn Information Collection Clearance Officer, ABA-20

1 Approving National Aviation Authority/Country
FAA/United States

2.

AUTHORIZED RELEASE CERTIFICATE

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3 Form Tracking Number
2203840-001

4 Organization Name and Address

Honeywell International
1944 East Sky Harbor Circle
Phoenix, AZ 85034

FAA Certificate # ZN3RO3OM

5 Work Order/Contract/Invoice Number
S9697008620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	NOZZLE ASSY, FUEL	3830057-7	N/A	1	1WP05471	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49 , Rev 36, dated 3/31/2011

UAL 60-49-20-00/AR03

INSPECTED IN OVERHAULED CONDITION, REF FORM 8130 TRACKING NUMBER 2203840

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to
☐ Approved design data and are in a condition for safe operation
☐ Non-approved design data specified in Block 13

19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13
Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
		Terry E Coulter 164	ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed)	23 Date (m/d/y)
		TERRY E COULTER	July 23, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

OMB Control No 2120-0018
09/30/2007

1 Approving National Aviation Authority / Country	2	3 Form Tracking Number
FAA / UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG**	00000000000002203840 Page 1 of 1

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Delavan Inc 811 FOURTH STREET WEST DES MOINES, IA 50265-0100 USA CERTIFICATE #KT2R964K	4880816 3500131909

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch Number	12 Status/Work
01	331-250 NOZZLE ASSY	68009-7 (3830057-7)	N/A	1	SN 1WP05471	OVERHAULED

13 Remarks
Purpose Approval for Return to Service
OVERHAULED in accordance with CMM CMM-49-31-13 Revision 7 Rev Date 09/29/2000

Certifies that the work specified in block 12/13 was carried out in accordance with EASA Part 145 and in respect to that work the component is considered ready for release to service under EASA Part 145 Approval Number EASA 145 4378

14 Certifies the items identified above were manufactured in conformity to:

[ ] Approved design data and are in a condition for safe operation

[ ] Non-approved design data as specified in Block 13

19

[X] 14 CFR 43 9 Return to Service [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service

16 Authorized Signature	17 Approval / Authorization No	20 Authorized Signature	21 Approval / Certificate No
		Ronda Baker	KT2R964K
15 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed)	23 Date (m d y)
		RONDA BAKER	JUN 04 2013

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

FAA Form 8130-3 (6-01)

* Installer must cross check eligibility with applicable technical data NSN 0052-00-012-9005

Paperwork Reduction Act Statement:
An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a current with this collection of information is 2120-0018 Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at. 800 Independence Ave SW, Washington, DC 20591, Attn Information Collection Clearance Officer, ABA-20

1 Approving National Aviation Authority/Country FAA/United States	2.	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 30880953-001

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9697008620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	NOZZLE ASSY, FUEL	3830057-6	N/A	1	1BDB1239	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49 , Rev 36, dated 3/31/2011

UAL 60-49-20-00/AR03

INSPECTED IN OVERHAULED CONDITION, REF FORM 8130 TRACKING NUMBER 30880953

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature Terry E. Coulter (164)
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) TERRY E COULTER
		21 Approval/Certificate No ZN3R030M
		23 Date (m/d/y) July 23, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

OMB Control No 2120-0018
09/30/2007

1 Approving National Aviation Authority / Country	2	3 Form Tracking Number
FAA / UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG**	00000000000002248613 30880953 Page 1 of 1

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Delavan Inc 811 FOURTH STREET WEST DES MOINES, IA 50265-0100 USA CERTIFICATE #KT2R964K	4922876 3500163204

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch Number	12 Status/Work
01	NOZZLE ASSY	68009-6 (3830057-6)	N/A	1	SN 1BDB1239	OVERHAULED

13 Remarks
Purpose Approval for Return to Service
OVERHAULED in accordance with CMM CMM-49-31-13 Revision 7 Rev Date 09/29/2000

Certifies that the work specified in block 12/13 was carried out in accordance with EASA Part 145 and in respect to that work the component is considered ready for release to service under EASA Part 145 Approval Number EASA 145 4378

14 Certifies the items identified above were manufactured in conformity to:

[ ] Approved design data and are in a condition for safe operation.

[ ] Non-approved design data specified in Block 13.

19

[X] 14 CFR 43 9 Return to Service [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval / Authorization No	20 Authorized Signature	21 Approval / Certificate No
		Sandy Wolfe	KT2R964K
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed)	23 Date (m d y)
		SANDY WOLFE	JUL 01 2013

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

FAA Form 8130-3 (6-01)

* Installer must cross check eligibility with applicable technical data NSN 0052-00-012-9005

Paperwork Reduction Act Statement.
An agency may not conduct or sponsor and a person is not required to respond to a collection of information unless it displays a current with this collection of information is 2120-0018 Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at 800 Independence Ave SW Washington DC 20591, Attn Information Collection Clearance Officer, ABA-20

1 Approving National Aviation Authority/Country FAA/United States	2	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 30880935-001
4 Organization Name and Address Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM			5 Work Order/Contract/Invoice Number S9697008620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	NOZZLE ASSY, FUEL	3830057-6	N/A	1	UX1-1112	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49 , Rev 36, dated 3/31/2011

UAL 60-49-20-00/AR03

INSPECTED IN OVERHAULED CONDITION, REF FORM 8130 TRACKING NUMBER 30880935

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature Terry E. Coulter 164	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) TERRY E COULTER	23 Date (m/d/y) July 23, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

OMB Control No 2120-0018
09/30/2007

1 Approving National Aviation Authority / Country	2 **AUTHORIZED RELEASE CERTIFICATE**	3 Form Tracking Number
FAA / UNITED STATES	**FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG**	00000000000002248526 30880935 *Page 1 of 1*

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Delavan Inc 811 FOURTH STREET WEST DES MOINES, IA 50265-0100 USA CERTIFICATE #KT2R964K	4922870 3500162804

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch Number	12 Status/Work
01	NOZZLE ASSY	68009-6 (3830057-6)	N/A	1	SN UX1-1112	OVERHAULED

13 Remarks
Purpose Approval for Return to Service
OVERHAULED in accordance with CMM CMM-49-31-13 Revision 7 Rev Date 09/29/2000

Certifies that the work specified in block 12/13 was carried out in accordance with EASA Part 145 and in respect to that work the component is considered ready for release to service under EASA Part 145 Approval Number EASA 145 4378

14 Certifies the items identified above were manufactured in conformity to:

[ ] Approved design data and are in a condition for safe operation.

[ ] Non-approved design data specified in Block 13.

19

[X] 14 CFR 43 9 Return to Service [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval / Authorization No	20 Authorized Signature	21 Approval / Certificate No
		Sandy Wolfe	KT2R964K
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed) SANDY WOLFE	23 Date (m d y) JUL 01 2013

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

FAA Form 8130-3 (6-01)

* Installer must cross check eligibility with applicable technical data NSN 0052-00-012-9005

Paperwork Reduction Act Statement:
An agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a current with this collection of information is 2120-0018 Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at 800 Independence Ave. SW Washington DC 20591 Attn Information Collection Clearance Officer ABA-20

1 Approving National Aviation Authority/Country FAA/United States	2.	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 30880916-001
4 Organization Name and Address Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM			5 Work Order/Contract/Invoice Number S9697008620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	NOZZLE ASSY, FUEL	3830057-6	N/A	1	UX1-1113	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49 , Rev 36, dated 3/31/2011.

UAL 60-49-20-00/AR03

INSPECTED IN OVERHAULED CONDITION, REF FORM 8130 TRACKING NUMBER 30880916

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature Terry E Coulter (164)	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) TERRY E COULTER	23 Date (m/d/y) July 23, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain *an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown*

188

OMB Control No 2120-0018
09/30/2007

1 Approving National Aviation Authority / Country	2	3 Form Tracking Number
FAA / UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG**	00000000000002248506 30880916 Page 1 of 1

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Delavan Inc 811 FOURTH STREET WEST DES MOINES, IA 50265-0100 USA CERTIFICATE #KT2R964K	4922873 3500162800

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch Number	12 Status/Work.
01	NOZZLE ASSY	68009-6 (3830057-6)	N/A	1	SN UX1-1113	OVERHAULED

13 Remarks
Purpose Approval for Return to Service
OVERHAULED in accordance with CMM CMM-49-31-13 Revision 7 Rev Date 09/29/2000

Certifies that the work specified in block 12/13 was carried out in accordance with EASA Part 145 and in respect to that work the component is considered ready for release to service under EASA Part 145 Approval Number EASA 145 4378

14 Certifies the items identified above were manufactured in conformity to:

[ ] Approved design data and are in a condition for safe operation.

[ ] Non-approved design data specified in Block 13.

19

[X] 14 CFR 43 9 Return to Service [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval / Authorization No	20 Authorized Signature	21 Approval / Certificate No
		Sandy Wolfe	KT2R964K
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
		SANDY WOLFE	JUL 01 2013

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

FAA Form 8130-3 (6-01)

* Installer must cross check eligibility with applicable technical data NSN 0052-00-012-9005

Paperwork Reduction Act Statement.
An agency may not conduct or sponsor and a person is not required to respond to a collection of information unless it displays a current with this collection of information is 2120-0018 Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at 800 Independence Ave SW, Washington, DC 20591 Attn Information Collection Clearance Officer, ABA-20

1 Approving National Aviation Authority/Country FAA/United States	2.	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 30871619-001
4 Organization Name and Address Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034		FAA Certificate # ZN3RO3OM	5 Work Order/Contract/Invoice Number S9697008620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	NOZZLE ASSY, FUEL	3830057-6	N/A	1	1WN05462	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49 , Rev 36, dated 3/31/2011

UAL 60-49-20-00/AR03

INSPECTED IN OVERHAULED CONDITION, REF FORM 8130 TRACKING NUMBER 30871619

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature 164	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) TERRY E COULTER	23 Date (m/d/y) July 23, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

OMB Control No 2120-0018
09/30/2007

1 Approving National Aviation Authority / Country	2	3 Form Tracking Number
FAA / UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG**	00000000000002227096 30871619 Page 1 of 1

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Delavan Inc 811 FOURTH STREET WEST DES MOINES, IA 50265-0100 USA CERTIFICATE #KT2R964K	4871045 3500122045

6 Item.	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch Number	12 Status/Work
01	NOZZLE ASSY	68009-6 (3830057-6)	N/A	1	SN 1WN05462	OVERHAULED

13 Remarks
Purpose Approval for Return to Service
OVERHAULED in accordance with CMM CMM-49-31-13 Revision 7 Rev Date 09/29/2000

Certifies that the work specified in block 12/13 was carried out in accordance with EASA Part 145 and in respect to that work the component is considered ready for release to service under EASA Part 145 Approval Number EASA 145 4378

14. Certifies the items identified above were manufactured in conformity to:

[ ] Approved design data and are in a condition for safe operation.

[ ] Non-approved design data specified in Block 13.

19

[X] 14 CFR 43 9 Return to Service [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service

15. Authorized Signature:	16. Approval / Authorization No:	20 Authorized Signature	21 Approval / Certificate No
		Sandy Wolfe	KT2R964K
17. Name (Typed or Printed):	**18. Date (m d y):**	22 Name (Typed or Printed)	23 Date (m d y)
		SANDY WOLFE	JUN 18 2013

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

FAA Form 8130-3 (6-01)

* Installer must cross check eligibility with applicable technical data NSN 0052-00-012-9005

Paperwork Reduction Act Statement:
An agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a current with this collection of information is 2120-0018 Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at 800 Independence Ave SW, Washington DC 20591 Attn Information Collection Clearance Officer, ABA 20

1 Approving National Aviation Authority/Country FAA/United States	2	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 30880928-001

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9697008620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	NOZZLE ASSY, FUEL	3830057-6	N/A	1	UX1-1114	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49 , Rev 36, dated 3/31/2011

UAL 60-49-20-00/AR03

INSPECTED IN OVERHAULED CONDITION, REF FORM 8130 TRACKING NUMBER 30880928

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature Terry E Coulter 164	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) TERRY E COULTER	23 Date (m/d/y) July 23, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

OMB Control No 2120-0018
09/30/2007

1 Approving National Aviation Authority / Country	2 **AUTHORIZED RELEASE CERTIFICATE**	3 Form Tracking Number
FAA / UNITED STATES	**FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG**	00000000000002248515 30880928 Page 1 of 1

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Delavan Inc 811 FOURTH STREET WEST DES MOINES, IA 50265-0100 USA CERTIFICATE #KT2R964K	4922869 3500162790

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch Number	12 Status/Work
01	NOZZLE ASSY	66009-6 (3830057-6)	N/A	1	SN UX1-1114	OVERHAULED

13 Remarks
Purpose. Approval for Return to Service
OVERHAULED in accordance with CMM CMM-49-31-13 Revision 7 Rev Date 09/29/2000

Certifies that the work specified in block 12/13 was carried out in accordance with EASA Part 145 and in respect to that work the component is considered ready for release to service under EASA Part 145 Approval Number EASA 145 4378

14 Certifies the items identified above were manufactured in conformity to:

[ ] Approved design data and are in a condition for safe operation.

[ ] Non-approved design data specified in Block 13.

19

[X] 14 CFR 43 9 Return to Service [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval / Authorization No	20 Authorized Signature	21 Approval / Certificate No
		Sandy Wolfe	KT2R964K
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed)	23 Date (m d y)
		SANDY WOLFE	JUL 01 2013

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

FAA Form 8130-3 (6-01)

* Installer must cross check eligibility with applicable technical data NSN 0052-00-012-9005

Paperwork Reduction Act Statement:
An agency may not conduct or sponsor and a person is not required to respond to a collection of information unless it displays a current with this collection of information is 2120-0018 Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at 800 Independence Ave SW, Washington DC 20591 Attn Information Collection Clearance Officer, ABA 20

1 Approving National Aviation Authority/Country * FAA/United States	2	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 30880951-001

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9697008620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	NOZZLE ASSY, FUEL	3830057-6	N/A	1	1BKN1426	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49 , Rev 36, dated 3/31/2011

UAL 60-49-20-00/AR03

INSPECTED IN OVERHAULED CONDITION, REF FORM 8130 TRACKING NUMBER 30880951

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to	19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
		Terry E. Coulter 164	ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed)	23 Date (m/d/y)
		TERRY E COULTER	July 23, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

OMB Control No 2120-0018
09/30/2007

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1 Approving National Aviation Authority / Country	2	3 Form Tracking Number
FAA / UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG**	00000000000002248577 30880951 Page 1 of 1

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Delavan Inc 811 FOURTH STREET WEST DES MOINES, IA 50265-0100 USA CERTIFICATE #KT2R964K	4922866 3500162784

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch Number	12 Status/Work
01	NOZZLE ASSY	68009-6 (3830057-6)	N/A	1	SN 1BKN1426	OVERHAULED

13 Remarks
Purpose Approval for Return to Service
OVERHAULED in accordance with CMM CMM-49-31-13 Revision 7 Rev Date 09/29/2000

Certifies that the work specified in block 12/13 was carried out in accordance with EASA Part 145 and in respect to that work the component is considered ready for release to service under EASA Part 145 Approval Number EASA 145 4378

14 Certifies the items identified above were manufactured in conformity to:

☐ Approved design data and are in a condition for safe operation.

☐ Non-approved design data specified in Block 13.

19

[X] 14 CFR 43 9 Return to Service [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval / Authorization No	20 Authorized Signature	21 Approval / Certificate No
		Sandy Wolfe	KT2R964K
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
		SANDY WOLFE	JUL 01 2013

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

FAA Form 8130-3 (6-01)

* Installer must cross check eligibility with applicable technical data NSN 0052-00-012-9005

Paperwork Reduction Act Statement.
An agency may not conduct or sponsor and a person is not required to respond to a collection of information unless it displays a current with this collection of information is 2120-0018 Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at 800 Independence Ave. SW Washington, DC 20591, Attn Information Collection Clearance Officer ABA-20

1 Approving National Aviation Authority/Country
FAA/United States

2.

AUTHORIZED RELEASE CERTIFICATE

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3 Form Tracking Number
315159588

4 Organization Name and Address

Honeywell International
1944 East Sky Harbor Circle
Phoenix, AZ 85034

FAA Certificate # ZN3RO3OM

5 Work Order/Contract/Invoice Number
S9697008620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	PUMP ASSEMBLY SCAVENGE	3880160-3	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev. 36, dated 3/31/2011

UAL 60-49-20-00-AR03

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14. Certifies the items identified above were manufactured in conformity to
☐ Approved design data and are in a condition for safe operation
☐ Non-approved design data specified in Block 13

19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13
Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
			ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed)	23 Date (m/d/y)
		NONGNOOCH MERCER	July 24, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003553068Y15 315159588

4 Organization Name and Address		5 Work Order/Contract/Invoice Number
Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	Repair Station ZN3R030M	N/A 315119124 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	PUMP ASSEMBLY SCAVENGE	3880160-3	N/A	1	N/A	OVERHAULED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH
CMM 49-22-13 Rev 19, JUN/15/2010
IRM 49-23-49 Rev 36, MAR/31/2011

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND WITH RESPECT TO THAT WORK THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to	19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature Renoo Ziegler
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed) **Renoo Ziegler**
		21 Approval/Certificate No **ZN3R030M**
		23 Date (m d y) **JUL 05 2013**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003581453Y14- 5006484382-3074036-1

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9697008620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	SHIELD ASSY	3880170-3	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS SHIELD ASSY IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to	19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13
☒ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Stephen J. Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J. Robinson	**JUL 19 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003581458Y14 5006484382-3074038-1

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9697008620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	SEAL SFT	3822069-1	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS SEAL SFT IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identfied in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Stephen J Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J Robinson	**JUL 19 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003581462Y14 5006484382-3074038-5

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9697008620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	TUBE OIL RTN	3880169-2	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS TUBE OIL RTN IS A SUBCOMPONENT OF A TSO AUTHORIZATION SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Stephen J. Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J. Robinson	**JUL 19 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003581461Y14 5006484382-3074038-4

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9697008620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	TUBE OIL IN	3880168-1	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS TUBE OIL IN IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Stephen J. Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J. Robinson	**JUL 19 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/Installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003581455Y14 5006484382-3074036-1

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9697008620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	SHROUD FUEL NOZ	3830054-9	N/A	4	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS SHROUD FUEL NOZ IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to	19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13
☒ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Stephen J. Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J. Robinson	**JUL 19 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/Installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country FAA/United States	2.	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 258820
4 Organization Name and Address Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM			5 Work Order/Contract/Invoice Number S9697008620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	MUFFLER, EXHAUST	3850007-1	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev' 36, dated 3/31/2011

UAL 60-49-20-00-AR03

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) NONGNOOCH MERCER	23 Date (m/d/y) July 24, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2 AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIR WORTHINESS APPROVAL TAG	3 Form Tracking Number
FAA/UNITED STATES		258820

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Ace Precision Machining Corporation W146 N5714 Enterprise Ave Menomonee Falls, WI 53051 FAA Repair Station #QAPR054K	PO# 3500133604

6 ITEM	7 DESCRIPTION	8 PART NUMBER	9 ELIGIBILITY *	10 QUANTITY	11 SERIAL/BATCH NUMBER	12 STATUS/WORK
1	Muffler Exhaust	3850007-1	N/A	1	N/A	Overhauled

13 REMARKS

Certifies that the work specified in block 12/13 was carried out in accordance with EASA Part-145 and in respect to that work the component is considered ready for release to service under EASA Part-145 Approval Number EASA 145 4015

Overhauled in accordance with the following authorizing document(s) Full details of work carried out traceable to Form Tracking Number 258820

IRM 49-23-49 revision 36

Inspected per IRM requirements — Weld repair cracks

ORI P31683 revision NC

Replace honeycomb core

14 Certifies the items identified above were manufactured in conformity to	19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Authorization No
		Suzanne Loichinger	QAPR054K
17 Name (Typed or Printed)	**18 Date (m/d/y)**	**22 Name (Typed or Printed)**	**23 Date (m/d/y)**
		Suzanne Loichinger	Jun/05/2013

USER/INSTALLER RESPONSIBILITIES

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in block 1

Statements in block 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country FAA/United States	2.	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 258166-001
4 Organization Name and Address Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM			5 Work Order/Contract/Invoice Number S9687098620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	SEAL STTR 3STG	3844043-2	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49 , Rev 36, dated 3/31/2011

UAL 60-49-20-00/AR03

INSPECTED IN OVERHAULED CONDITION, REF FORM 8130 TRACKING NUMBER 258166

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature 164	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) TERRY E COULTER	23 Date (m/d/y) June 3, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2 AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIR WORTHINESS APPROVAL TAG	3 Form Tracking Number:
FAA/UNITED STATES		258166

4 Organization Name and Address	5 Work Order/Contract/Invoice Number.
Ace Precision Machining Corporation W146 N5714 Enterprise Ave Menomonee Falls, WI 53051 FAA Repair Station #QAPR054K	PO# 3500103423

6 ITEM	7 DESCRIPTION	8 PART NUMBER	9 ELIGIBILITY.*	10 QUANTITY	11 SERIAL/BATCH NUMBER	12 STATUS/WORK
1	Seal, STTR 3STG	3844043-2	N/A	1	N/A	Overhauled

13 REMARKS

Certifies that the work specified in block 12/13 was carried out in accordance with EASA Part-145 and in respect to that work the component is considered ready for release to service under EASA Part-145 Approval Number EASA.145 4015

Overhauled in accordance with the following authorizing document(s) Full details of work carried out traceable to Form Tracking Number 258166

IRM 49-23-49 revision 36

Inspected per IRM requirements Size/straighten

ORI P31721 revision B

Replace Honeycomb Seal

14 Certifies the items identified above were manufactured in conformity to		19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13			
15 Authorized Signature	16 Approval/Authorization No.	20 Authorized Signature Suzanne Loichinger	21. Approval/Authorization No. QAPR054K
17 Name (Typed or Printed)	18. Date (m/d/y)	22 Name (Typed or Printed) Suzanne Loichinger	23 Date (m/d/y) May/24/2013

USER/INSTALLER RESPONSIBILITIES

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in block 1

Statements in block 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003526843Y14 8002657726-10

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		67100500010 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	EXCITER IGNITION	3888058-7	N/A	3	130679 See Continuation	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS EXCITER IGNITION IS A SUBCOMPONENT OF A TSO AUTHORIZATION

11 Serial/Batch Number(s) (Continued)

130727, 130730

14 Certifies the items identified above were manufactured in conformity to	19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13		
☒ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of federal Regulations, part 43 and in respect to that work, the items are approved for return to service		
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
	ODA-602216-NM		
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed)	23 Date (m d y)
James Baldwin	**JUN 25 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/Installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1. Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003471152Y14 5006334755-2997477-9

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9687098620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	STATOR, SECOND STAGE, TURBINE	3844012-3	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS STATOR, SECOND STAGE, TURBINE IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC. REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Stephen J. Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J. Robinson	**MAY 30 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country FAA/United States	2.	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 247553-001

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9687098620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work.
001	SEAL STTR 2STG	3844036-2	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49 , Rev. 36, dated 3/31/2011

UAL 60-49-20-00/AR03

INSPECTED IN OVERHAULED CONDITION, REF FORM 8130 TRACKING NUMBER 247553

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature 164	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)*	18 Date (m/d/y)	22 Name (Typed or Printed) TERRY E COULTER	23 Date (m/d/y) June 3, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2 AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIR WORTHINESS APPROVAL TAG	3 Form Tracking Number.
FAA/UNITED STATES		247553

4 Organization Name and Address	5 Work Order/Contract/Invoice Number.
Ace Precision Machining Corporation W146 N5714 Enterprise Ave Menomonee Falls, WI 53051 FAA Repair Station #QAPR054K	PO# 4204387631

6 ITEM	7 DESCRIPTION	8 PART NUMBER	9 ELIGIBILITY *	10 QUANTITY	11 SERIAL/BATCH NUMBER	12 STATUS/WORK
1	Seal, STTR 2STG	3844036-2	N/A	1	N/A	Overhauled

13 REMARKS

Certifies that the work specified in block 12/13 was carried out in accordance with EASA Part-145 and in respect to that work the component is considered ready for release to service under EASA Part-145 Approval Number EASA.145 4015

Overhauled in accordance with the following authorizing document(s) Full details of work carried out traceable to Form Tracking Number 247553

IRM 49-23-49 revision 36

Inspected per IRM requirements Size/straighten

ORI P31710 revision B

Replace Honeycomb Seal

14 Certifies the items identified above were manufactured in conformity to	19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature Jason Glocka	21. Approval/Authorization No QAPR054K
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) Jason Glocka	23 Date (m/d/y) Apr/30/2012

USER/INSTALLER RESPONSIBILITIES

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in block 1

Statements in block 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003581452Y14 5006484382-3074036-1

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9697008620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	BLANKET INSUL SEG	3844082-1	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS BLANKET INSUL SEG IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to

☒ Approved design data and are in a condition for safe operation

☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Stephen J Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J Robinson	**JUL 19 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003571539Y14- 5006518676-3075630-1

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PC413NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9709048620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	SUPPORT ASSEMBLY, BEARING	865042-8	N/A	1	N/A	NEW

13 **Remarks .**

AIRWORTHINESS APPROVAL

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

☒ Approved design data and are in a condition for safe operation

☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Cornel Bonchis	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Cornel Bonchis	**JUL 16 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003580448Y14 5006484382-3074036-3

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
	Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9697008620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	SEAL ASSY TURB BRG	3844065-2	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS SEAL ASSY TURB BRG IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Stephen J Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J Robinson	**JUL 19 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/Installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2.	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number
FAA/United States			R13-0129

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9697008620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	COUPLING, CURVIC, ROTOR SEAL	3840011-3	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev 36, dated 3/31/2011

UAL 60-49-20-00-AR03

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to	19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
			ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed)	23 Date (m/d/y)
		NONGNOOCH MERCER	July 24, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country:	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130–3, AIRWORTHINESS APPROVAL TAG	R13-0129

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
AEROTEC INTERNATIONAL INC FAA REPAIR STATION UMCR407K, 3007 E CHAMBERS, PHOENIX, AZ 85040	R2134

6 Item	7 Description	8. Part Number	9. Eligibility *	10 Quantity	11. Serial/Batch Number	12 Status/Work
1	ROTOR SEAL CURVIC COUPLING	3840011-3	N/A	1 EA	IDR13-0129	OVERHAULED

13 Remarks

F/P, METAL SPRAY REPAIRED, RESTORED CURVIC RUNOUTS, MACHINED WITHIN LIMITS, HAND FINISHED, CLEANED, INSPECTED IAW HONEYWELL INSPECTION/ REPAIR MANUAL 49-23-49, REV 36, DATED 3/31/11 AND ATR3310009-2. (MEETS OVERHAUL CRITERIA).

PERTINENT DETAILS OF WORK PERFORMED ARE ON FILE AT THIS REPAIR STATION UNDER REPAIR ORDER # R13-0129 (SAT RIVER)

Certifies that the work specified in block 12/13 was carried out in accordance with EASA Part-145 and in respect to that work the component is considered ready for release to service under EASA Part-145 Approval Number EASA 145.4142 Repair design data used in the maintenance of this component in compliance with EASA Executive Director Decision 2004/04/CF, As Amended By Executive Director Decision 2007/001/C

14. Certifies the items identified above were manufactured in conformity to	19 ☑ 14 CFR 43.9 Return to Service ☑ Other regulation specified in Block 13
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
			UMCR407K
17 Name (Typed or Printed)	18 Date (m/d/y)	22. Name (Typed or Printed)	23. Date (m/d/y)
		FERNANDO AGUERO	JUN 11 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003581463Y14 5006484382-3074038-6

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PC413NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9697008620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	RING SEAL	3101874-1	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Stephen J. Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J. Robinson	**JUL 19 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003581464Y14 5006484382-3074038-7

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9697008620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	RING SEAL	3844059-1	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS RING SEAL IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Stephen J. Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J. Robinson	**JUL 19 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003580447Y14 5006484382-3074036-2

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
	Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9697008620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	SHROUD TURB 1STG	3844008-1	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS SHROUD TURB 1STG IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Stephen J. Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J. Robinson	**JUL 19 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country FAA/United States	2.	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 259533
4 Organization Name and Address Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM			5 Work Order/Contract/Invoice Number S9697008620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	SUPPORT	3844009-1	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev· 36, dated 3/31/2011

UAL 60-49-20-00-AR03

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14. Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) NONGNOOCH MERCER	23 Date (m/d/y) July 24, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2 AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIR WORTHINESS APPROVAL TAG	3 Form Tracking Number
FAA/UNITED STATES		259533

4 Organization Name and Address	5 Work Order/Contract/Invoice Number.
Ace Precision Machining Corporation W146 N5714 Enterprise Ave Menomonee Falls, WI 53051 FAA Repair Station #QAPR054K	PO# 3500162043

6 ITEM	7 DESCRIPTION	8 PART NUMBER	9 ELIGIBILITY *	10 QUANTITY	11 SERIAL/BATCH NUMBER	12 STATUS/WORK
1	Support	3844009-1	N/A	1	N/A	Overhauled

13 REMARKS

Certifies that the work specified in block 12/13 was carried out in accordance with EASA Part-145 and in respect to that work the component is considered ready for release to service under EASA Part-145 Approval Number EASA 145 4015

Overhauled in accordance with the following authorizing document(s) Full details of work carried out traceable to Form Tracking Number 259533

IRM 49-23-49 revision 36

Inspected per IRM requirements

ORI P31973 revision B

Replace top ring

14 Certifies the items identified above were manufactured in conformity to	19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Authorization No
		Suzanne Loichinger	QAPR054K
17 Name (Typed or Printed)	**18 Date (m/d/y)**	**22 Name (Typed or Printed)**	**23 Date (m/d/y)**
		Suzanne Loichinger	Jun/21/2013

USER/INSTALLER RESPONSIBILITIES

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component assembly
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in block 1
Statements in block 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country FAA/United States	2.	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 259925
4 Organization Name and Address Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM			5 Work Order/Contract/Invoice Number S9697008620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	SUPPORT	3844007-1	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev 36, dated 3/31/2011

UAL 60-49-20-00-AR03

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) NONGNOOCH MERCER	23 Date (m/d/y) July 24, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2 AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIR WORTHINESS APPROVAL TAG	3 Form Tracking Number
FAA/UNITED STATES		259925

4 Organization Name and Address.	5 Work Order/Contract/Invoice Number.
Ace Precision Machining Corporation W146 N5714 Enterprise Ave Menomonee Falls, WI 53051 FAA Repair Station #QAPR054K	PO# 3500178733

6 ITEM	7 DESCRIPTION	8 PART NUMBER	9 ELIGIBILITY *	10 QUANTITY	11 SERIAL/BATCH NUMBER	12 STATUS/WORK
1	Support	3844007-1	N/A	1	N/A	Overhauled

13 REMARKS

Certifies that the work specified in block 12/13 was carried out in accordance with EASA Part-145 and in respect to that work the component is considered ready for release to service under EASA Part-145 Approval Number EASA.145 4015

Overhauled in accordance with the following authorizing document(s) Full details of work carried out traceable to Form Tracking Number 259925

IRM 49-23-49 revision 36

Inspected per IRM requirements Metal Spray Diameter -B-

ORI T40061 revision B

Replace -FN2 flange

14 Certifies the items identified above were manufactured in conformity to	19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature Eric Wondolkowski
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) Eric Wondolkowski
		21 Approval/Authorization No QAPR054K
		23 Date (m/d/y) Jul/12/2013

USER/INSTALLER RESPONSIBILITIES

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in block 1

Statements in block 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country FAA/United States	2	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 260006

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9697008620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	SEAL LBYR	3844050-2	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev· 36, dated 3/31/2011

UAL 60-49-20-00-AR03

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) NONGNOOCH MERCER	23 Date (m/d/y) July 24, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2 AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIR WORTHINESS APPROVAL TAG	3 Form Tracking Number
FAA/UNITED STATES		260006

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Ace Precision Machining Corporation W146 N5714 Enterprise Ave Menomonee Falls, WI 53051 FAA Repair Station #QAPR054K	PO# 3500178594

6 ITEM	7 DESCRIPTION	8 PART NUMBER	9 ELIGIBILITY *	10 QUANTITY	11 SERIAL/BATCH NUMBER	12 STATUS/WORK
1	Seal, Labyrinth	3844050-2	N/A	1	N/A	Overhauled

13 REMARKS

Certifies that the work specified in block 12/13 was carried out in accordance with EASA Part-145 and in respect to that work the component is considered ready for release to service under EASA Part-145 Approval Number EASA 145 4015

Overhauled in accordance with the following authorizing document(s) Full details of work carried out traceable to Form Tracking Number 260006

IRM 49-23-49 revision 36

Inspected per IRM requirements Metal Spray Diameter -H-

ORI P31603 revision C

Replace Honeycomb Seal

14 Certifies the items identified above were manufactured in conformity to	19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Authorization No
		Suzanne Loichinger	QAPR054K
17 Name (Typed or Printed)	**18 Date (m/d/y)**	**22 Name (Typed or Printed)**	**23 Date (m/d/y)**
		Suzanne Loichinger	Jul/15/2013

USER/INSTALLER RESPONSIBILITIES

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in block 1

Statements in block 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country FAA/United States	2	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 314654768
4 Organization Name and Address Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM			5 Work Order/Contract/Invoice Number S9697008620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	DUCT, DIFFUSER AND DESWIRL, FIRST STAGE	3826230-1	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev. 36, dated 3/31/2011

ARBA 3300-5006298275-001

UAL 60-49-20-00-AR03

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) NONGNOOCH MERCER	23 Date (m/d/y) July 24, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2.	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003495715Y15 314654768

4 Organization Name and Address		5 Work Order/Contract/Invoice Number
Honeywell International Inc Nádražní 400 783 66 HLUBOČKY - MARIÁNSKÉ ÚDOLÍ CZECH REPUBLIC	Repair Station MXHY520X	4614442 314604656 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	DUCT, DIFFUSER AND DESWIRL, FIRST STAGE	3826230-1	N/A	1	N/A	OVERHAULED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH
IRM 49-23-49 Rev 36
ORI P30157 Rev.A
ORI P30042 Rev A
ORI P32263 Rev -

Traceability Number 3300-4614442 R

Engineering criteria complies with A R B A DAF 3300-5006298275-001

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER EASA CZ 145 0034

14 Certifies the items identified above were manufactured in conformity to		19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature authority per FAR 145 OP 011/2008	21 Approval/Certificate No **MXHY520X**
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed) **Petr Balaz**	23 Date (m d y) **JUN 11 2013**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country FAA/United States	2.	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 258831

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9701178620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	TRANSITION LINER ASSEMBLY COMB	3844001-3	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev. 36, dated 3/31/2011.

UAL 60-49-20-00-AR03

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43.9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and descnbed in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authonzed Signature	16 Approval/Authonzation No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) NONGNOOCH MERCER	23 Date (m/d/y) June 20, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2 AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIR WORTHINESS APPROVAL TAG	3 Form Tracking Number
FAA/UNITED STATES		258831

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Ace Precision Machining Corporation W146 N5714 Enterprise Ave Menomonee Falls, WI 53051 FAA Repair Station #QAPR054K	PO# 3500133559

6 ITEM	7 DESCRIPTION	8 PART NUMBER	9 ELIGIBILITY *	10 QUANTITY	11 SERIAL/BATCH NUMBER	12 STATUS/WORK
1	Transition Liner	3844001-3	N/A	1	N/A	Overhauled

13 REMARKS

Certifies that the work specified in block 12/13 was carried out in accordance with EASA Part-145 and in respect to that work the component is considered ready for release to service under EASA Part-145 Approval Number EASA 145 4015

Overhauled in accordance with the following authorizing document(s) Full details of work carried out traceable to Form Tracking Number 258831

IRM 49-23-49 revision 36

Inspected per IRM requirements — Size/straighten — Weld repair Diameter -J-

ORI P31818 revision NC

Replace inner sleeve and flange — Thermal Barrier Coat

ORI P35380 revision NC

Weld repair Diameter -B-

14 Certifies the items identified above were manufactured in conformity to		19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Authorization No
		Suzanne Loichinger	QAPR054K
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed)	23 Date (m/d/y)
		Suzanne Loichinger	Jun/11/2013

USER/INSTALLER RESPONSIBILITIES

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in block 1

Statements in block 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003566670Y14 5006484382-3067739-1

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9697008620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	DESWIRL ASSEMBLY	3826110-2	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS DESWIRL ASSEMBLY IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to	19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13
☒ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Florie McCrone	**ODA-602216-NM**		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Florie McCrone	**JUL 12 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1. Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1 Approving National Aviation Authority/Country	2.	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number
FAA/United States			315027771

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9697008620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	DIFFUSER ASSY, 2ND STAGE	3826262-1	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev 36, dated 3/31/2011

UAL 60-49-20-00-AR03

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) NONGNOOCH MERCER	23 Date (m/d/y) July 24, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003523022Y15 315027771

4 Organization Name and Address		5 Work Order/Contract/Invoice Number
Honeywell International Inc Nadrazni 400 783 65 HLUBOCKY -MARIANSKE UDOLI CZECH REPUBLIC	Repair Station MXHY520X	4696177 314983491 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	DIFFUSER ASSY, 2ND STAGE	3826262-1	N/A	1	N/A	OVERHAULED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH
IRM 49-23-49 Rev 36

Traceability Number 3300-4696177 R

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER EASA CZ 145 0034

14 Certifies the items identified above were manufactured in conformity to	19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature / 16 Approval/Authorization No	20 Authorized Signature authority per FAR 145 OP 002/2002	21 Approval/Certificate No **MXHY520X**
17 Name (Typed or Printed) / 18 Date (m d y)	22 Name (Typed or Printed) **Lubomir Novak**	23 Date (m d y) **JUN 24 2013**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003581451Y14 5006484382-3074036-1

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9697008620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	BLANKET, INSUL	3826185-4	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS BLANKET, INSUL IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Stephen J. Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J. Robinson	**JUL 19 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	8900035814S0Y14 5006484382-3074036-9

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9697008620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	BLANKET INSUL	3826184-5	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS BLANKET INSUL IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
S Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J. Robinson	**JUL 19 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/Installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country FAA/United States	2.	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 314984406

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9697008620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	HOUSING ASSY CPRSR	3826138-3	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev 36, dated 3/31/2011

UAL 60-49-20-00-AR03

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) NONGNOOCH MERCER	23 Date (m/d/y) July 24, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2.	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003555499Y15 314984406

4 Organization Name and Address		5 Work Order/Contract/Invoice Number
Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	Repair Station ZN3R030M	N/A 314895127 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	HOUSING ASSY CPRSR	3826138-3	N/A	1	N/A	OVERHAULED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH
IRM 49-23-49 Rev 36, MAR/31/2011
ORI P31488 Rev E, OCT/18/2012

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to		19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in condition for safe operation ☐ Non-approved design data specified in Block 13		Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No **ZN3R030M**
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed) **Emil Cristea**	23 Date (m d y) **JUL 08 2013**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003580449Y14-5006484382-3074036-8

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9697008620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	SHROUD, COMPRESSOR	3810138-2	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS SHROUD, COMPRESSOR IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
S Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J Robinson	**JUL 19 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003593407Y14 5006484382-3095304-1

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9697008620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	HOUSING ASSEMBLY, INLET	3810259-3	N/A	1	13-156136-00040	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS HOUSING ASSEMBLY, INLET IS A SUBCOMPONENT OF A TSO AUTHORIZATION.

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Steven Hester	**JUL 24 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003581456Y14 5006484382-3074036-1

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9697008620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	HOUSING ASSEMBLY, BEARING INLET	3810127-1	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS HOUSING ASSEMBLY, BEARING INLET IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Stephen J Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J Robinson	**JUL 19 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/Installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	AUTHORIZED RELEASE CERTIFICATE	3 Form Tracking Number
FAA/United States	**FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	899003581457Y14 5006484382 3074036-1

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9697008620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	SHAFT, COUPLING, ENGINE COMPRESSOR	3822065-1	N/A	1	N/A	NEW

13 Remarks :

AIRWORTHINESS APPROVAL

THIS SHAFT, COUPLING, ENGINE COMPRESSOR IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Stephen J. Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J. Robinson	**JUL 19 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/Installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

WORK CENTER: 551

SERIAL NBR	ET	MT	NAME	PWR RTG	CUST
61646		V	APU331	200E	UA

ORDER NUMBER
V532

COAS FOR MODULE TYPE N - SERIAL NUMBER P1392 MODULE NAME: POWER SECTION WORK CENTER: 551

COA NUMBER	COA CAT	MODULE/ FUNC NBR	UNIT SERIAL	UNIT COA STATUS	ISS	COMP	COA TITLE	COMPLETION DATE

*** NO COAS SCHEDULED FOR THIS UNIT ***

13

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, ACCY GEARCASE

REV. 4/26/07

AV534	61965	V3000.0
ORDER NO	ENGINE NO.	JOB NO

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT

214386	V0002.0	- NON-ROUTINE ACCOUNTABILITY
214386 . 371TL	V3010.0	ACCY GEARCASE - DISASSEMBLY
214386 . 371TL	V3020.0	ACCY GEARCASE - CLEANING
214386 . 371TL	V3040.0	49-26-01ACCESSORY GEARBOX ASSEMBLY
214386	V4010.0	GEN SCAV PUMP - DISASSEMBLY AND CLEAN
214386 . 371TL	V4040.0	GEN SCAVENGE PUMP - ASSEMBLY
214386 . 371TL	V7010.0	STARTER CLUTCH - DISASSEMBLY/CLEANING
214386 . 371TL	V7040.0	STARTER CLUTCH - ASSEMBLY
		NOTE - INCLUDE 49-26-01/ICS - ACCESSORY GEARBOX/CLUTCH AY INSPECTION WITH LOG PACKAGE.

214386

13

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, ACCY GEARCASE

REV. 4/26/07

AV534	61965	V3000.0
ORDER NO	ENGINE NO	JOB NO

214386

+2 NO COA'S 214386

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

   ASSEMBLY S/N: P1536 214386

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

   SIGNATURE: 214386 DATE: 7/30/12

END JOB V3000.0 REVISED 4/26/07

13

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ACCY GEARCASE - DISASSEMBLY

REV. 11/23/12

AV534	61965	V3010.0
ORDER NO	ENGINE NO	JOB NO.

M 7870 1. REMOVE EXTERNAL PLUG FROM CENTER OF GEARBOX HOUSING ADJACENT TO THE GENERATOR PAD AND DISCARD OLD PART NUMBER PLUG (WITHOUT KEENSERT). DISCARD O-RING

M 7870 2. REMOVE DISCHARGE TUBE AND OIL JET FROM AROUND CLUTCH ENSURING REMOVAL OF CLAMP, RETAINED TUBE AND FASTENERS.

M 7870 3. REMOVE RETAINER FROM OIL PRESSURE SUPPLY TUBE TO CARRIER.

M 7870 4. REMOVE BEARING RETAINERS FROM PINION AND GENERATOR GEARS.

M 7870 5. REMOVE CARRIER ASSEMBLY FROM GEARBOX HOUSING.

M 7870 6. REMOVE OIL TUBES AND DISCARD O-RINGS.

M 7870 7. REMOVE COOLING FAN IDLER GEAR AND REMOVE BEARINGS WITH 294866-5 ADAPTER, 294870-2 PLATE AND 4020C PULLER.

NOTE - THIN GEAR (.250) PART NUMBER MAY BE DIACARDED WITH BEARINGS PRIOR TO DISASSEMBLY IF THE GEARBOX WAS ROUTED FOR REPLACEMENT OF THE IDLER GEAR.

371TL L 8. CIRCLE AND ACCOMPLISH A OR B BELOW:
WAS ENGINE REVIEWED FOR COOLING FAN IDLER GEAR REPLACEMENT?

A. YES, CALL FOR EXPOSED AREA INSPECTION.

371TL B. NO, CONTINUE DISASSEMBLY AT SIGN-OFF 10 AND ROUTE DISASSEMBLED GEARBOX FOR CLEANING.

551

371TL L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

13

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ACCY GEARCASE - DISASSEMBLY

REV. 11/23/12

AV534	61965	V3010.0
ORDER NO	ENGINE NO	JOB NO

M 7870 9. REMOVE GENERATOR SCAVENGE PUMP DISCARD O-RINGS AND SEAL.

M 7870 10. REMOVE ALL PLUGS AND FITTINGS FROM EXTERNAL OF GEARBOX. DISCARD O-RINGS.

M 7870 11. REMOVE CAP AND ADAPTER ASSEMBLY, FILLER AND SIGHT GLASS HOUSING, REFLECTOR, PLACARD AND WINDOW. DISCARD O-RINGS.

M 7870 12. DISASSEMBLE JETS FROM CARRIER AND REMOVE REMAINING BEARING RETAINERS. DISCARD O-RINGS.

M 7870 13. REMOVE THE FOLLOWING GEARS AND BEARINGS. (USE TOOL CHART).

GEAR	ADAPTER	PLATE	PULLER
OIL PUMP DRIVE	294866-5	294867-3	4020C
GENERATOR IDLER	294866-1	294867-1	4020C
COMPOUND GEAR	294865-2	294865-2	4020C
GENERATOR DRIVE	294866-4/-6	294870-5	4020C
HIGH SPEED PINION	294866-3	294869-1	4020C

M 7870 14. REMOVE OIL TRANSFER TUBES, OIL JETS AND SCAVENGE TUBE. DISCARD O-RINGS.

END JOB V3010.0 REVISED 11/23/12

371TL L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

13

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ACCY GEARCASE - CLEANING

REV. 4/27/01

AV534	61965	V3020.0
ORDER NO.	ENGINE NO	JOB NO.

1. U7926 UTILITY MECHANIC (U) CLEAN ACCESSORY GEARCASE PER GN 4-0-3-20 PROCESS 01 (SOLVENT CLEAN), AND/OR GN 4-0-3-20 PROCESS 2C.

371TL L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

13

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ACCY GEARCASE - CLEANING

REV. 4/27/01

AV534	61965	V3020.0
ORDER NO	ENGINE NO	JOB NO.

END JOB V3020.0 REVISED 4/27/01

371TL L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

13

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-26-01ACCESSORY GEARBOX ASSEMBLY

REV. 7/11/12

AV534	61965	V3040.0
ORDER NO	ENGINE NO	JOB NO.

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-26-01.

ASSIGNED TO ENGINE ORDER NUMBER V539214386

M 7989 1. PREASSEMBLE GEARBOX HOUSING.

M 7989 2. ASSEMBLE BEARINGS ON GEARS.

371TL LM 7989 3. INSTALL GEARS.

371TL LM 7989 4. INSTALL CARRIER.

M 7989 5. INSTALL BEARING RETAINERS.

M 7989 6. ASSEMBLE AND INSTALL GENERATOR SCAVENGE PUMP.

M 7989 7. CIRCLE AND ACCOMPLISH A OR B BELOW.

WAS ENGINE REVIEWED FOR COOLING FAN IDLER GEAR REPLACEMENT?

A. YES, NO FURTHER SIGNOFF REQUIRED.

NOTE - STEPS 1 THROUGH 6 ABOVE REPRESENT ONLY PARTIAL ASSEMBLY OF THE EXPOSED PARTS TO ACCOMPLISH THE COOLING FAN IDLER GEAR CHANGE.

7989 B. NO, CONTINUE WITH ASSEMBLY STEPS.

M 7989 8. ASSEMBLE AND INSTALL STARTER CLUTCH.

M 7989 9. INSTALL EXTERNAL PARTS.

371TL L ALL ITEMS ARE PROPERLY SIGNED OFF.

551

ENGINE MAINTENANCE DEPARTMENT

UNITED

13

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Signed in error. ~~7989~~ 6 ~~7089~~ I

0C18517 I

Job Instruction Card

331-200 49-26-01ACCESSORY GEARBOX ASSEMBLY

REV. 7/11/12

AV534	61965	V3040.0
ORDER NO	ENGINE NO	JOB NO

10. FINAL INSPECTION CHECK.

NOTE - *VERIFY AREA IS INTACT AND FREE OF DEFECTS AND ALL DEBRIS.*
REFERENCE PAOG 45-55-30-06

END JOB V3040.0 REVISED 7/11/12

3717L

_____L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

13

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 STARTER CLUTCH - DISASSEMBLY/CLEANING

REV. 5/6/96

LV534	61965	V7010.0
ORDER NO.	ENGINE NO	JOB NO

M 7870 1. REMOVE LRU CLUTCH ADAPTER TOOL.

M 7870 2. REMOVE ASSEMBLED STARTER GEAR FROM ADAPTER.

M 7870 3. REMOVE WASHERS AND WAVE SPRINGS FROM ADAPTER.

M 7870 4. REMOVE RETAINING RING AND WASHERS FROM ASSEMBLED STARTER GEAR. REMOVE SPLINE SHAFT AND PLUG.

M 7870 5. REMOVE BEARINGS FROM SPLINE SHAFT AND STARTER GEAR.

M 7870 6. DISCARD ALL BEARINGS EXCEPT P/N 3860160-1. BAG REMAINING BEARING FOR RECOVERY.

7. U 7926 UTILITY MECHANIC (U) CLEAN DISASSEMBLED PARTS PER GN 4-0-3-20 PROCESS 01. (SOLVENT CLEAN)

M 7870 8. ROUTE PARTS TO INSPECTION.

37177 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

13

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 STARTER CLUTCH - DISASSEMBLY/CLEANING

REV. 5/6/96

LV534	61965	V7010.0
ORDER NO	ENGINE NO.	JOB NO

END JOB V7010.0 REVISED 5/6/96

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

13

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 STARTER CLUTCH - ASSEMBLY

REV. 9/27/93

LV534	61965	V7040.0
ORDER NO	ENGINE NO.	JOB NO

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-27-01/SP01

ASSIGNED TO ENGINE ORDER NUMBER V535 214386

M 7989 1. ASSEMBLE STARTER GEAR ASSEMBLY.

2.9850 - A2 (REFERENCE DIMENSION)

-2.361- A3

=0.624- (SUBTOTAL)

- 0.6180 - A1 (REFERENCE DIMENSION)

=0.006- (SUBTOTAL)

+0.215 - B

=0.221 - (SUBTOTAL)

- 0.0780 - (SPRING HEIGHT)

=0.143 - (SUBTOTAL)

- 0.1000 - (NOMINAL)

=0.043- SHIM THICKNESS REQUIRED.

0.043- ACTUAL SHIMS USED, + OR - 0.001 INCH.

371TL L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

13

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 STARTER CLUTCH - ASSEMBLY

REV. 9/27/93

LV534	61965	V7040.0
ORDER NO	ENGINE NO	JOB NO

M 7989 2. INSTALL SPLINE SHAFT AND STARTER CLUTCH.

.264 - 1A

-.132 = 1B

=.132 (SUBTOTAL)

-.062 1C

=.07 - (SUBTOTAL)

- 0.0455

=.0245 SHIM THICKNESS REQUIRED.

.025 - ACTUAL SHIMS USED, + OR - 0.0025 INCH.

M 7989 3. PACKAGE LRU CLUTCH ASSEMBLY.

END JOB V7040.0 REVISED 9/27/93

371TL L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

UNITED AIRLINES

GTCP331-200ER APU Engine Manual - Inspection and Condition Sheet

GEARBOX MODULE
60-49-26-01-00 ICS

DISTRIBUTION: 551

ENGINE S/N _____ VADE NO: _____ CUSTOMER: _____

MODULE ORDER NO AV534 MODULE S/N P1536 MODULE. A

REASON FOR REMOVAL _____

COMMENTS _____

DISPOSITION CODES		
	E =	PART MEETS DETAIL PART EID REQUIREMENTS (ZERO TIME SINCE DETAIL PART INSPECTION)
	A =	EXPOSED AREA OF PART MEETS VISUAL REQUIREMENTS OF APPROPRIATE EID (CONTINUED TIME SINCE DETAIL PARTS INSPECTION)
	C =	PART ROUTED OR CORRECTIVE ACTION TAKEN
	ATA# S/L-SEQ	EID NUMBER [49 precedes numbers shown (49) 31 -XX] SECTION / LIST - SEQUENCE NUMBER
	OFF LOG FUNC#	STAMP TO INDICATE PART OFF-LOG FROM MODULE FUNCTION NUMBER

NOTE . Sign off appropriate disposition code More than one code may be signed

NOTE Indicate condition of unserviceable parts regardless of disposition

NOTE To clear parts not exposed, draw a line through the complete entry and stamp in the left *margin*

NOTE If part is routed on an R&R Tag, it is mandatory to stamp the applicable "E" or "A" Block and write "R&R" in the "C" Block. Then complete the appropriate computer transaction.

NOTE Parts having no specific EID will be visually inspected per 60-49-00-00 Book "0", Introduction, Section 4, A4.

Module Inspection Guide:

I _____ (1) Module inspected and found serviceable per EID 60-49-26-01-00 [ZERO Time Since Module Inspection (TSMI)] No parts removed from module. No additional sign-off required

I 0C69087 (2) Module partially or completely disassembled Removed parts and / or exposed areas inspected per appropriate EID (ZERO Time Since Detail Parts Inspection - TSDPI)

Control Date 20070329

ENGINE S/N: _____ ORDER NO AV534

E	A	C	ITEM NOMENCLATURE	ATA # S/L SEQ	OFFLOG FUNC #	ROUTING / CONDITION
		QC69087	BEARING, FAN IDLER	26-00-01	XXX	4 comp
				01-410	5642	
		QC69087	BEARING, OIL PUMP	26-00-01	XXX	"
				01-420	5643	
		QC69087	BEARING, HI SPEED PINION	26-00-01	XXX	"
				01-430	5644	
		QC69087	BEARING, GENERATOR IDLER	26-00-01	XXX	"
				01-440	5645	
		QC69087	BEARING, GENERATOR	26-00-01	XXX	"
				01-450	5646	
		QC69087	BEARING, IDLER	26-00-01	XXX	"
				01-460	5647	
		QC69087	BEARING, OUTER RACE	26-00-01	XXX	"
				01-460	9267	
QC69087			HOUSING, ACCY GEARBOX	26-02-00		
				01-300	0987	
QC69087			GEAR ASSY, OIL PUMP	26-03-00	XXX	
				01-120	2233	
QC69087			GEAR, GENERATOR IDLE	26-04-00	XXX	
				01-160	2230	
		QC69087	GEAR ASSY, MATCHED SPUR	26-05-00	XXX	rub
				01-130	2229	
QC69087			GEARSHAFT, GENERATOR DRIVE	26-06-00	XXX	
				01-200	2231	
QC69087			GEAR, FAN IDLER	26-08-00	XXX	
				01-140	2237	
QC69087			TUBE, JET ASSY	26-10-00	XXX	
				01-250	5637	
		QC69087	TUBE	26-11-00	XXX	rub
				01-080	5628	
QC69087			TUBE	26-11-00	XXX	
				01-240	5636	
QC69087			TUBE	26-11-00	XXX	
				01-070	5627	
QC69087			TUBE	26-12-00	XXX	
				01-260	5638	

ENGINE S/N _____ ORDER NO Av534

E	A	C	ITEM NOMENCLATURE	ATA # S/L SEQ	OFFLOG FUNC #	ROUTING / CONDITION
QC69087			OIL JET	26-13-00 01-050	XXX 5625	
QC69087			OIL JET	26-13-00 01-040	XXX 5624	
QC69087			OIL JET	26-13-00 01-060	XXX 5626	
QC69087			TRANSFER TUBE	26-14-00 01-210	XXX 5633	
QC69087			GEAR, HI SPEED PINION	26-16-00 01-150	XXX 2232	
QC69087			HOUSING, FILLER	26-21-00 01-020	XXX 5622	
			HOUSING, GEN SCVG PUMP	90-02-02 60-010	XXX 5789	
			GEAR, SPUR	90-02-03 60-030	XXX 5791	
	QC69087		GEARSHAFT	90-02-03 60-040	XXX 5792	
			GEARSHAFT	90-02-03 60-050	XXX 5793	
			SEAL ASSY, ENCASED	90-02-02 60-020	XXX 5790	
		QC69087	BEARING, STARTER GEAR	26-00-01 05-020	XXX 5641	Scrap
		QC69087	BEARING, INNER RACE	26-00-01 05-030	XXX 9266	"
		QC69087	BEARING, BALL	26-00-01 05-060	XXX 5649	"
		QC69087	BEARING, SPLINED SHAFT	26-00-01 05-090	XXX 5648	"
		QC69087	GEAR, STARTER DRIVE	26-07-00 05-040	XXX 5634	damage
		QC69087	CLUTCH, ONE WAY	26-07-01 05-080	XXX 5640	wear
QC69087			PLUG, STARTER DRIVE	26-07-02 05-050	XXX 5639	

ENGINE S/N _____ ORDER NO AV534

E	A	C	ITEM NOMENCLATURE	ATA # / S/L SEQ	OFFLOG / FUNC #	ROUTING / CONDITION
		QC69087	SHAFT, SPLINED	26-07-03	XXX	
				05-070	5635	
QC69087			ADAPTER, CLUTCH	26-07-04	XXX	
				05-010	5706	
		QC69087	TENSION WASHER	BOOK 0	XXX	SCRAP 100%
				05-110	5631	
					XXX	
					XXX	
					XXX	
					XXX	
					XXX	
					XXX	
					XXX	

I QC69087 (3) Check Inspection and Condition Sheet for completion

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003589293V14 - 5006480606-3070932-1

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9704118620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	GEAR ASSY	3860182-2	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS GEAR ASSY IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to	19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13		
☒ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service		
15 Authorized Signature Cornel Bonchis	16 Approval/Authorization No **ODA-602216-NM**	20 Authorized Signature	21 Approval/Certificate No
17 Name (Typed or Printed) **Cornel Bonchis**	18 Date (m d y) **JUL 23 2013**	22 Name (Typed or Printed)	23 Date (m d y)

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003584107Y14 5006480606-3085170-1

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9704118620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	GEAR, STARTER	3860168-2	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS GEAR, STARTER IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to	19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13
☒ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Florie McCrone	**ODA-602216-NM**		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Florie McCrone	**JUL 19 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003569746Y14 5006480606-3070932-4

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9704118620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	CLUTCH, ONE WAY	3611304-1	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS CLUTCH, ONE WAY IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Margo Marion	**ODA-602216-NM**		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Margo Marion	**JUL 15 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003569745Y14 5006480606-3070932-2

4 Organization Name and Address	Production Approval		5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9704118620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	SHAFT ASSY SPLN	3868023-1	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS SHAFT ASSY SPLN IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Margo Marion	**ODA-602216-NM**		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Margo Marion	**JUL 15 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003569747Y14 5006480606-3070932-5

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9704118620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	TUBE DISCH GEN OIL	3613699-1	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS TUBE DISCH GEN OIL IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Margo Marion	**ODA-602216-NM**		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Margo Marion	**JUL 15 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003558443Y15 314921823

4 Organization Name and Address		5 Work Order/Contract/Invoice Number
Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	Repair Station ZN3R030M	N/A 314872542 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	PUMP ASSEMBLY GENERATOR SCAVENGE	3880200-6	N/A	1	N/A	OVERHAULED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH
CMM 49-27-15 Rev 3, MAR/15/1995

Additional Information

Alternate SN outgoing 974720100075

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to		19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in condition for safe operation ☐ Non-approved design data specified in Block 13		Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature Renoo Ziegler	21 Approval/Certificate No **ZN3R030M**
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed) **Renoo Ziegler**	23 Date (m d y) **JUL 09 2013**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1 Approving National Aviation Authority/Country FAA/United States	2.	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 314921823-001

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9704118620

6 Item	7 Description	8 Part Number	9. Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	PUMP ASSEMBLY GENERATOR SCAVENGE	3880200-6	N/A	1	N/A	Inspected

13 Remarks

Return to service. Items provided by the customer have been serviced in accordance with 49-23-49 , Rev 36, dated 3/31/2011

UAL 60-49-20-00/AR03

INSPECTED IN OVERHAULED CONDITION, REF FORM 8130 TRACKING NUMBER 314921823

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14. Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) TERRY E COULTER	23 Date (m/d/y) July 23, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

WORK CENTER: 551

SERIAL NBR	ET	MT	NAME	PWR RTG	CUST
61965		V	APU331	200E	UA

ORDER NUMBER
V534

COAS FOR MODULE TYPE A - SERIAL NUMBER P1536 MODULE NAME: GEARBOX ASSMBLY WORK CENTER: 551

COA NUMBER	COA CAT	MODULE/ FUNC NBR	UNIT SERIAL	UNIT COA STATUS	ISS	COMP	COA TITLE	COMPLETION DATE
A-0004-1	B	A	P1536	COMPLETED			331-200 SPUR FAN GEAR - RPL	07/02/12

*** END OF REPORT ***

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, LOAD COMPRESSOR

REV. 4/26/07

FV535	62486	V6000.0
ORDER NO	ENGINE NO	JOB NO

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT

214386	V0002.0	- NON-ROUTINE ACCOUNTABILITY
214386	V6010.0	DRIVEN COMPRESSOR - DISASSEMBLE
214386	V6020.0	DRIVEN COMPRESSOR - CLEANING
214386	V6040.0	DRIVEN COMPRESSOR - ASSEMBLY

NOTE - INCLUDE 60-49-25-00-00 ICS - LOAD COMPRESSOR/IGV MODULE 'FV' WITH LOG PACKAGE.

1

Job Instruction Card

331-200 COVER PAGE, LOAD COMPRESSOR

REV. 4/26/07

FV535	62486	V6000.0
ORDER NO	ENGINE NO	JOB NO

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

2 NO COA'S 214386

214386

214386

214386

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

ASSEMBLY S/N: P-1985 214386

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

SIGNATURE: 214386 DATE: 8/5/13

END JOB V6000.0 REVISED 4/26/07

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 DRIVEN COMPRESSOR - DISASSEMBLE

REV. 4/2/93

FV535	62486	V6010.0
ORDER NO	ENGINE NO.	JOB NO

ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-25-01/SP02.

M 7870 1. REMOVE DRIVEN COMPRESSOR COMPONENTS.

M 7870 2. REMOVE IGV ACTUATOR.

M 7870 3. REMOVE IGV MOUNT AND BELLCRANK.

M 7870 4. REMOVE INLET HOUSING AND IGV ASSEMBLY.

M 7870 5. REMOVE INLET BEARING HOUSING ASSEMBLY.

M 7870 6. REMOVE BACKSHROUD.

M 7870 7. REMOVE SEAL CARRIER.

M 7870 8. DISASSEMBLE ROTATING GROUP.

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 DRIVEN COMPRESSOR - DISASSEMBLE

REV: 4/2/93

FV535	62486	V6010.0
ORDER NO	ENGINE NO	JOB NO

END JOB V6010.0 REVISED 4/2/93

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 DRIVEN COMPRESSOR - CLEANING

REV. 4/27/01

FV535	62486	V6020.0
ORDER NO.	ENGINE NO	JOB NO

1. U 7926 UTILITY MECHANIC (U) CLEAN LOAD COMPRESSOR PARTS PER GN 4-0-3-20 PROCESS 01 (SOLVENT CLEAN), AND/OR GN 4-0-3-20 PROCESS 2C.

   NOTE - DO NOT CLEAN IGV ASSEMBLY. NO CLEANING PERMITTED UNLESS DISASSEMBLED.

371TL
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551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 DRIVEN COMPRESSOR - CLEANING

REV. 4/27/01

FV535	62486	V6020.0
ORDER NO	ENGINE NO	JOB NO.

END JOB V6020.0 REVISED 4/27/01

37TTL

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_____L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 DRIVEN COMPRESSOR - ASSEMBLY

REV. 7/3/12

FV535	62486	V6040.0
ORDER NO	ENGINE NO	JOB NO

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-25-01

ASSIGNED TO ENGINE ORDER NUMBER V539 214386

M 7870 1. ZERO FACE TIP CLEARANCE CHECK AND ASSEMBLE ROTATING GROUP.

11 RECORD TIP CLEARANCE

M 7870 2. STRETCH SHAFT.

1.240 DIMENSION A

-1.229 DIMENSION B

=0.011 SHAFT STRECH (0.011 - 0.012)

----- CONTINUOUS AIRWORTHINESS ITEM -----LOAD COMPRESSER TIESHAFT INSTALLATION - CHECK AND VERIFY STRETCH MEASUREMENT.

M 7870 3. CHECK ROTATING GROUP RUNOUT. RECORD COMPRESSOR ROTOR TIP RUNOUT.

RUNOUT 0.002 (0.003 INCH MAX)

M7870 4. INSTALL SEAL IN INLET HOUSING.

M 7870 5. ASSEMBLE BEARING AND INLET BEARING HOUSING. MARK WHICH BEARING INSTALLED.

7870 A. CONFIGURATION "A" TIMKEN BEARING.

M 7870 6. INSTALL IGV CONTROL ROD.

M 7870 7. INSTALL IGV TO SCROLL HOUSING AND INLET HOUSING.

M 7870 8. INSTALL IGV MOUNT AND BELLCRANK.

3717L

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L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 DRIVEN COMPRESSOR - ASSEMBLY

REV. 7/3/12

FV535	62486	V6040.0
ORDER NO.	ENGINE NO	JOB NO.

M 7870 9. INSTALL IGV ACTUATOR AND COMPONENTS

M 7870 10. ADJUST INLET GUIDE VANES.

----- CONTINUOUS AIRWORTHINESS ITEM -----IGV SYSTEM INSTALLATION - CHECK RIGGING OF LOAD COMPRESSOR IGV'S, IGV ASSEMBLY, AND IGV ACTUATOR FOR ITEMS 6-10. DUPLICATE SIGN-OFF ON JOB V1040.0

M 7870 11. CHECK DIFFUSER TO IMPELLER VOLUTE FOR NEGATIVE STEP.

371TL LM 7870 12. DETERMINE SHIM THICKNESS REQUIREMENTS BETWEEN COMPRESSOR ROTOR AND SCROLL HOUSING.

0.011 DIMENSION A

0.100 TRIAL SHIM THICKNESS

+0.025 DIMENSION B (0.036 - DIM. A = DIM. B)

=0.125

+1.377 DIMENSION 3A

=1.502

-1.450 DIMENSION 3B

=0.052 REQUIRED SHIM THICKNESS

M 7870 A. LUBRICATE NEW PACKING (85) WITH OIL(OIL 2389) AND INSTALL ON INLET BEARING HOUSING ASSEMBLY. (FIGURE 714).

371TL

ALL ITEMS ARE PROPERLY SIGNED OFF.

331-200 DRIVEN COMPRESSOR - ASSEMBLY

REV. 7/3/12

FV535	62486	V6040.0
ORDER NO	ENGINE NO.	JOB NO

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

1

OC13611 I B. **NOTE** - *VERIFY AREA IS INTACT AND FREE OF DEFECTS AND ALL DEBRIS.*
REFERENCE PAOG 45-55-30-06

M 7870 13. INSTALL ROTATING GROUP.
VERIFY AND RECORD TIP CLEARANCE (0.036 +/- .000-.002)
0.036 RECORD TIP CLEARANCE

M 7870 14. DETERMINE DIFFUSER SPACING SHIM REQUIREMENTS.

0.319 DIMENSION 4C

-0.288 DIMENSION 4D

=0.031 REQUIRED SHIM THICKNESS (+/- 0.001)

M 7870 15. DETERMINE CLEARANCE BETWEEN BEARING CARRIER AND BACKSHROUD.

0.904 DIMENSION 5A

-0.212 DIMENSION 5B

=0.692

- 0.640 INCH

=0.052 REQUIRED SHIM THICKNESS (+/- 0.005)

M 7870 16. ASSEMBLE DRIVEN COMPRESSOR. (SEE FIGURE 716)

M 7870 17. ASSEMBLE DRIVEN COMPRESSOR. (SEE FIGURE 717)

M 7870 18. ASSEMBLE DRIVEN COMPRESSOR. (SEE FIGURE 718)

M 7870 19. INSTALL INLET TEMPERATURE SENSOR (CIT PROBE).

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 DRIVEN COMPRESSOR - ASSEMBLY

REV. 7/3/12

FV535	62486	V6040.0
ORDER NO	ENGINE NO	JOB NO

END JOB V6040.0 REVISED 7/3/12

6C1S2J

371TL

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ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

UNITED AIRLINES

GTCP331-200ER APU Engine Manual - Inspection and Condition Sheet

LOAD COMPRESSOR MODULE
60-49-25-00-00 ICS

DISTRIBUTION 551

ENGINE S/N 62486 VADE NO: _____ CUSTOMER: UA

MODULE ORDER NO FV535 MODULE S/N P-1985 MODULE F

REASON FOR REMOVAL Auto Shutdown

COMMENTS _____

DISPOSITION CODES:		
	E =	PART MEETS DETAIL PART EID REQUIREMENTS (ZERO TIME SINCE DETAIL PART INSPECTION)
	A =	EXPOSED AREA OF PART MEETS VISUAL REQUIREMENTS OF APPROPRIATE EID (CONTINUED TIME SINCE DETAIL PARTS INSPECTION)
	C =	PART ROUTED OR CORRECTIVE ACTION TAKEN
	ATA# S/L-SEQ	EID NUMBER [49 precedes numbers shown (49) 31 -XX] SECTION / LIST - SEQUENCE NUMBER
	OFF LOG FUNC#	STAMP TO INDICATE PART OFF-LOG FROM MODULE FUNCTION NUMBER

NOTE · Sign off appropriate disposition code More than one code may be signed

NOTE Indicate condition of unserviceable parts regardless of disposition.

NOTE To clear parts not exposed, draw a line through the complete entry and stamp in the left margin

NOTE · If part is routed on an R&R Tag, it is mandatory to stamp the applicable "E" or "A" Block and write "R&R" in the "C" Block Then complete the appropriate computer transaction

NOTE Parts having no specific EID will be visually inspected per 60-49-00-00 Book "0", Introduction, Section 4, A4

Module Inspection Guide

I _____ (1) Module inspected and found serviceable per EID 60-49-25-00-00 [ZERO Time Since Module Inspection (TSMI)] No parts removed from module No additional sign-off required

QC18617

I _____ (2) Module partially or completely disassembled Removed parts and / or exposed areas inspected per appropriate EID (ZERO Time Since Detail Parts Inspection - TSDPI)

Control Date 20070329

ENGINE S/N. 62486 ORDER NO P535

E	A	C	ITEM NOMENCLATURE	ATA # S/L SEQ	OFFLOG FUNC #	ROUTING / CONDITION
		QC18617	BEARING, THRUST	20-01-01	QC18617	scrap
				18-195	5760	
		QC18617	BEARING, ROLLER	20-01-01	QC18617	
				18-320	5746	
		QC18617	CARBON SEAL ASSY 2 EA	20-02-00	XXX	
				18-275	14367	
		QC18617	ROTOR, CARBON SEAL 2 EA	22-22-00	XXX	
				18-280	5747	
QC18617			RETAINER, BEARING	22-02-00	XXX	
				18-070	2276	
		QC18617	ASSEMBLY, IGV	25-02-00	QC18617	
				25-000	0988 I	dissy
		QC18617	HOUSING, BEARING	25-03-00	XXX	
				18-190	0992	worn osv
		QC7387	COUPLING & SEAL	25-04-00	XXX	
				18-160	2251	lot# 279962
QC18617			SOUND ATTENUATOR	25-05-00	XXX	
				18-095	2275	
		QC18617	INSULATOR SHIELD	25-07-01	XXX	
				18-015	1227	delam osv
		QC18617	BACKSHROUD ASSY	25-08-00	XXX	
				18-010	5680	M.S. bubbling osv
		QC7387	SCROLL HOUSING	25-09-00	XXX	
				18-060	2243	lot# 301100
		QC18617	BELLCRANK	25-10-00	XXX	
				18-120	2239	552 LN 313166
		QC18617	MOUNT, IGV ACTUATOR	25-11-00	XXX	
				18-130	2274	bushing osv
QC18617			DIFFUSER	25-13-00	XXX	
				18-050	0990	
QC18617			HOUSING, INLET	25-15-00	XXX	
				18-100	2272	
		QC7387	IMPELLER	25-19-00	QC7387	
				18-150	0989	lot# 318716
QC18617			SHAFT	25-20-00	XXX	
				18-200	0991	

ENGINE S/N 62486 ORDER NO P535

E	A	C	ITEM NOMENCLATURE	ATA # S/L SEQ	OFFLOG FUNC #	ROUTING / CONDITION
		QC18617	CARRIER, SEAL	25-21-00	XXX	WORN OSV
				18-220	2247	
QC18617			CARRIER, SEAL	25-22-00	XXX	
				18-210	2248	
QC18617			SEAL ROTOR	25-23-00	XXX	
				18-170	5687	
QC18617			CARRIER, BEARING	25-32-00	XXX	
				18-040	2271	
QC18617			COVER, ACTUATOR MOUNT	25-38-00	XXX	
				50-150	5754	
QC18617			BRACKET, IGV ACTUATOR	25-39-00	XXX	
				50-160	5755	

1 Approving National Aviation Authority/Country	2	3. Form Tracking Number
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130–3, AIRWORTHINESS APPROVAL TAG**	000208366

4 Organization Name and Address		5. Work Order/Contract/Invoice Number
HONEYWELL INTERNATIONAL INC 111 SOUTH 34th STREET PHOENIX AZ 85072 PRODUCTION APPROVAL PT1222NM	B/E AEROSPACE CONSUMABLES MANAGEMENT 480 N 54TH STREET, SUITE 8 CHANDLER, AZ 85226	7TB402 001 Page 4 of 4

6. Item	7 Description	8. Part Number:	9. Eligibility: *	10 Quantity:	11 Serial/Batch Number	12 Status/Work
001	BEARING	3613827-1	N/A		MS11-151725-09327 MS11-151725-09334 MS11-151725-09335 Expires 06/20/13	NEW

13 Remarks.

AIRWORTHINESS APPROVAL
DIRECT SHIPMENT AUTHORIZATION
Customer P O # 26511080006

This BEARING is a subcomponent of a TSO authorization

14. Certifies the items identified above were manufactured in conformity to

☒ **Approved design data and are in a condition for safe operation.**
☐ **Non-approved design data specified in Block 13.**

19 ☐ **14 CFR 43 9 Return to Service** ☐ **Other regulation specified in Block 13**

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature	16 Approval/Authorization No	20 Authorized Signature:	21 Approval/Certificate No
	ODA-602216-NM		
17. Name (Typed or Printed)*	**18 Date (m d y)***	**22. Name (Typed or Printed)***	**23 Date (m d y).**
Louis Di Camillo	DEC 22 2011		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

*Installer must cross-check eligibility with applicable technical data.

1 Approving National Aviation Authority/Country	2.	3 Form Tracking Number
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130–3, AIRWORTHINESS APPROVAL TAG**	000323088

4 Organization Name and Address		5. Work Order/Contract/Invoice Number
Honeywell International Inc 111 S 34th Street Phoenix, Arizona 85072	B/E AEROSPACE CONSUMABLES MANAGEMENT 480 N 54TH STREET, SUITE 8 CHANDLER, AZ 85226	8K2146 001 Page 1 of 7
PRODUCTION APPROVAL PT1222NM		

6. Item:	7. Description	8. Part Number:	9. Eligibility *	10. Quantity:	11. Serial/Batch Number.	12. Status/Work.
001	BEARING	3822099-1	N/A	50 EA	Lot# 2013C00740 Mlot# MSFS530 SN13-162255-06205 SN13-162255-06211 SN13-162255-06214 SN13-162255-06215 SN13-162255-06216 SN13-162255-06217	NEW

13 Remarks:

AIRWORTHINESS APPROVAL
DIRECT SHIPMENT AUTHORIZATION
Customer P O # 26504620046

This BEARING is a subcomponent of a TSO authorization

14 Certifies the items identified above were manufactured in conformity to:

☒ **Approved design data and are in a condition for safe operation**
☐ **Non-approved design data specified in Block 13**

19 ☐ **14 CFR 43.9 Return to Service** ☐ **Other regulation specified in Block 13**

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No.:	20. Authorized Signature	21 Approval/Certificate No..
	ODA-602216-NM		
17 Name (Typed or Printed)	**18. Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y).**
Syed Hossain	MAY 22 2013		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003599623Y14 5006548393-3097597-1

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9712088620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	HOUSING ASSEMBLY, BEARING INLET, DRIVEN	3810187-2	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS HOUSING ASSEMBLY, BEARING INLET, DRIVEN IS A SUBCOMPONENT OF A
TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No .
Florie McCrone	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Florie McCrone	**JUL 27 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003581700Y14 5006518140-3083774-3

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9701488620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	CARRIER SEAL	3826125-1	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS CARRIER SEAL IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to	19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13
☒ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Stephen J. Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J. Robinson	**JUL 19 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

P.O.# BN0090

AUTHORIZED RELEASE CERTIFICATE

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States		L0500647403

4 Organization Name and Address		5 Work Order/Contract/Invoice Number
Honeywell International, Inc. 1944 E. Sky Harbor Circle Phoenix, AZ 85034	PRODUCTION APPROVAL PT1222NM	HH8367-001 BC0007 001

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch No	12 Status / Work
001	SHIELD INSUL	3826680-2	N/A TSO	000006	N/A. NOTE: (All serialization not referenced here is not required or traceable by HONEYWELL INC. Reference FAA ORDER 8130.21d)	NEW

13 Remarks

THIS FORM IS ISSUED AT 1944 E. SKY HARBOR CIRCLE PHOENIX, AZ 85034 AS AUTHORIZED BY THE PRODUCTION APPROVAL HOLDER AIRWORTHINESS APPROVAL - PARTS.
THE PART SHIPPED UNDER THIS APPROVAL IS A SUBCOMPONENT OF GTCP331-49-7056

14 Certifies the items identified above were manufactured in conformity to

- [X] Approved design data and are in a condition for safe operation
- [ ] Non-approved design data specified in Block 13

19 [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Robert Page	ODARF602216NM		
17 Name (Typed or Printed)	**18 Date (m/d/y)**	**22 Name (Typed or Printed)**	**23 Date (m/d/y)**
ROBERT PAGE	APR/21/2005		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

*Installer must cross-check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003581702Y14 5006518140-3083774-5

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9701488620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	BACK SHROUD ASSY	3826141-7	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS BACK SHROUD ASSY IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Stephen J. Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J. Robinson	**JUL 19 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certificaton issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003581599Y14 5006518140-3083774-2

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9701488620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	SCROLL HOUSING ASSEMBLY, DRIVEN COMPRESS	3826140-5	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS SCROLL HOUSING ASSEMBLY, DRIVEN COMPRESS IS A SUBCOMPONENT OF A
TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to

☒ Approved design data and are in a condition for safe operation

☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identfied in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
S Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J. Robinson	**JUL 19 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/Installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2. AUTHORIZED RELEASE CERTIFICATE	3 Form Tracking Number
FAA/United States	**FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003581701Y14 5006518140-3083774-4

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9701488620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	MOUNT	3826154-1	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS MOUNT IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Stephen J. Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J. Robinson	**JUL 19 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/Installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

WORK CENTER: 551

SERIAL NBR	ET	MT	NAME	PWR RTG	CUST
62486		V	APU331	200E	UA

ORDER NUMBER
V535

COAS FOR MODULE TYPE F - SERIAL NUMBER P-1986 MODULE NAME: DRIVEN COMP SE WORK CENTER: 551

COA NUMBER	COA CAT	MODULE/ FUNC NBR	UNIT SERIAL	UNIT COA STATUS	ISS	COMP	COA TITLE	COMPLETION DATE

*** NO COAS SCHEDULED FOR THIS UNIT ***

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, IGV ASSEMBLY

REV. 4/26/07

ORDER NO	ENGINE NO	JOB NO
IV535	62486	V6005.0

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT

V0002.0 - NON-ROUTINE ACCOUNTABILITY
V6015.0 IGV ASSEMBLY-DISASSEMBLE
V6025.0 IGV ASSEMBLY - CLEANING
V6045.0 IGV ASSEMBLY-ASSEMBLE
NOTE - INCLUDE 60-49-25-02-00 ICS - VARIABLE INLET GUIDE VANE MODULE WITH LOG PACKAGE.

Job Instruction Card

331-200 COVER PAGE, IGV ASSEMBLY

REV. 4/26/07

IV535	62486	V6005.0
ORDER NO	ENGINE NO.	JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

#2 NO COA'S 214386

214386

214386

214386

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

ASSEMBLY S/N: NONE 214386

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

SIGNATURE: 214386 DATE: 7/24/13

END JOB V6005.0 REVISED 4/26/07

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 IGV ASSEMBLY-DISASSEMBLE

REV. 1/19/01

IV535	62486	V6015.0
ORDER NO	ENGINE NO.	JOB NO

M 7870 1. REMOVE CLEVIS FROM GEARSHAFT.

M 7870 2. REMOVE COVER, WASHERS, RING GEAR ASSEMBLY AND REMOVE GEARSHAFT, SPRING WASHER AND WASHER.

M 7870 3. REMOVE WASHERS, SPRING WASHERS AND (27) GEAR SECTORS. REMOVE BEARINGS, INLET GUIDE VANES, PINS AND BAFFLES. REMOVE AND DISCARD PACKING.

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 IGV ASSEMBLY-DISASSEMBLE

REV. 1/19/01

IV535	62486	V6015.0
ORDER NO	ENGINE NO	JOB NO

END JOB V6015.0 REVISED 1/19/01

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 IGV ASSEMBLY - CLEANING

REV. 1/19/01

IV535	62486	V6025.0
ORDER NO	ENGINE NO	JOB NO

1. U 7825 UTILITY MECHANIC (U) OLEUM WASH IGV ASSEMBLY PARTS PER GN 4-0-3-20 PROCESS 01.

371TL
L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 IGV ASSEMBLY - CLEANING

REV. 1/19/01

IV535	62486	V6025.0
ORDER NO	ENGINE NO	JOB NO.

END JOB V6025.0 REVISED 1/19/01

371TL
_____L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 IGV ASSEMBLY-ASSEMBLE

REV: 2/16/12

IV535	62486	V6045.0
ORDER NO	ENGINE NO	JOB NO

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-25-02/SP01.

M 7989 1. INSTALL IGV INLET VANES.

M 7989 2. INSTALL IGV BEARINGS.

M 7989 3. CHECK FOR PREVIOUS ACCOMPLISHMENT AND CIRCLE A OR B BELOW.

A. RING GEAR AND/OR SECTOR GEARS HAVE DRY FILM LUBRICANT APPLIED. NO FURTHER ACTION REQUIRED.

B. DRY FILM LUBRICANT IS MISSING. PROCEED AS FOLLOWS: CLEAN RING GEAR AND/OR SECTOR GEARS WITH SOL3000-5-1. APPLY LUB4500-1SC AND AIR DRY FOR 30 MINUTES.

M 7989 4. INSTALL IGV ASSEMBLY ON PLYWOOD STORAGE PLATE.

M 7989 5. INSTALL IGV RING GEAR.

M 7989 6. INSTALL IGV GEARSHAFT AND IGV SECTOR GEARS.

M 7989 7. INSTALL COVER ASSEMBLY.

M 7989 8. INSTALL CLEVIS.

075564 IM 7989 9. VERIFY FREE AND SMOOTH IGV ACTUATION.

RECORD ACTUATION FORCE 3 lbs

NOTE - *VERIFY AREA IS INTACT AND FREE OF DEFECTS AND ALL DEBRIS.*
REFERENCE PAOG 45-55-30-06

371TL L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 IGV ASSEMBLY-ASSEMBLE

REV. 2/16/12

IV535	62486	V6045.0
ORDER NO	ENGINE NO	JOB NO

----- CONTINUOUS AIRWORTHINESS ITEM -----IGV SYSTEM INSTALLATION - CHECK RIGGING OF IGV ASSEMBLY ITEMS 5-8

M 7989 10. STORE IGV ASSEMBLY IN A CLEAN PLASTIC BAG.

END JOB V6045.0 REVISED 2/16/12

371TL

551

_____L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

UNITED AIRLINES

GTCP331-200ER APU Engine Manual - Inspection and Condition Sheet

VARIABLE INLET GUIDE VANE (IGV) MODULE
60-49-25-02-00 ICS

DISTRIBUTION 551

ENGINE S/N 62486 VADE NO. 2149386 CUSTOMER UA

MODULE ORDER NO IV5365 MODULE S/N _____ MODULE I

REASON FOR REMOVAL Auto shutdown

COMMENTS _____

DISPOSITION CODES		
	E =	PART MEETS DETAIL PART EID REQUIREMENTS (ZERO TIME SINCE DETAIL PART INSPECTION)
	A =	EXPOSED AREA OF PART MEETS VISUAL REQUIREMENTS OF APPROPRIATE EID (CONTINUED TIME SINCE DETAIL PARTS INSPECTION)
	C =	PART ROUTED OR CORRECTIVE ACTION TAKEN
	ATA# S/L-SEQ	EID NUMBER [49 precedes numbers shown (49) 31 -XX] SECTION / LIST - SEQUENCE NUMBER
	OFF LOG FUNC#	STAMP TO INDICATE PART OFF-LOG FROM MODULE FUNCTION NUMBER

NOTE Sign off appropriate disposition code More than one code may be signed

NOTE Indicate condition of unserviceable parts regardless of disposition

NOTE To clear parts not exposed, draw a line through the complete entry and stamp in the left margin

NOTE If part is routed on an R&R Tag, it is mandatory to stamp the applicable "E" or "A" Block and write "R&R" in the "C" Block Then complete the appropriate computer transaction

NOTE Parts having no specific EID will be visually inspected per 60-49-00-00 Book "0", Introduction, Section 4, A4

Module Inspection Guide

I _____ (1) Module inspected and found serviceable per EID 60-49-25-02-00 [ZERO Time Since Module Inspection (TSMI)] No parts removed from module No additional sign-off required

QC18617

I _____ (2) Module partially or completely disassembled. Removed parts and / or exposed areas inspected per appropriate EID (ZERO Time Since Detail Parts Inspection - TSDPI)

Control Date 20070329

ENGINE S/N 62486 ORDER NO V536

E	A	C	ITEM NOMENCLATURE	ATA # / S/L SEQ	OFFLOG / FUNC #	ROUTING / CONDITION
		QC18617	HOUSING, IGV	25-02-01	XXX	552
				25-010	2245	
		QC18617	COVER, IGV	25-02-02	XXX	552
				25-020	2244	
QC18617		QC18617	RING GEAR	25-02-03	XXX	ok
				25-130	2273	
QC18617			GEAR, SECTOR 27 EA	25-02-04	XXX	
				25-110	5704	
QC18617			GEARSHAFT, IGV	25-02-05	XXX	
				25-190	5709	
QC18617			VANE, INLET 23 EA	25-02-06	XXX	
				25-030	9102	
		QC18617	VANE, MASTER	25-02-06	XXX	missing
				25-040	9103	
QC18617			VANE, SLOTTED 2 EA	25-02-06	XXX	
				25-070	9104	
QC18617			VANE, NOTCHED 2 EA	25-02-06	XXX	
				25-080	2282	
		QC18617	BAFFLE, 2 EA	25-02-06	XXX	1ea missing
				25-090	5703	
QC18617		QC18617	PIN, 2EA	25-02-06	XXX	
				IPC	5701	

I QC18617 (3) Check Inspection and Condition Sheet for completion

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003581583Y14 5006519540-3083772-1

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9701498620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	BAFFLE	3810230-1	N/A	2	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS BAFFLE IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to

☒ Approved design data and are in a condition for safe operation

☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Stephen J Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J Robinson	**JUL 19 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

0

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE ENGINE - BALANCE

REV. 4/1/96

214386 NV532 6/692

V000	~~00000~~	V8000.0
ORDER NO	ENGINE NO	JOB NO.

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT

214386 214386	V2101.0	IMPELLER - 1ST STAGE COMPRESSOR
214386	V2102.0	IMPELLER - 2ND STAGE COMPRESSOR
214386 214386	V2103.0	WHEEL ASSEMBLY-1ST STAGE TURBINE
214386 214386	V2104.0	WHEEL ASSEMBLY-2ND STAGE TURBINE
	V2105.0	WHEEL ASSEMBLY-3RD STAGE TURBINE
	V2106.0	COUPLING - CURVIC
	V3101.0	GEAR - MATCHED SET - SPUR
	V3102.0	ROTOR - COOLING FAN-SHROUDED-BALANCE
214386	V6101.0	IMPELLER - LOAD COMPRESSOR

0

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

214386

331-200 COVER PAGE ENGINE - BALANCE

REV. 4/1/96

214386 NV532 6/6/96

ORDER NO	ENGINE NO	JOB NO
~~V000~~	~~00000~~	V8000.0

#2 no cops 214386

214386

214386

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

SIGNATURE: 214386 DATE: 8/14/13

END JOB V8000.0 REVISED 4/1/96

0

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

214386 NV532 61246

331-200 IMPELLER - 1ST STAGE COMPRESSOR

REV. 5/23/94

~~N0000~~	~~00000~~	V2101.0
ORDER NO	ENGINE NO	JOB NO

M 7925 1. BALANCE PER SHOP PROCEDURE 49-22-10/SP01. DATE 7/23/2013

FINAL UNBALANCE - GRAMS OR OZ-INCH ANGLE

H PLANE - .00869 124°

J PLANE - .00852 43°

NOTE - LIST P/N AND S/N BELOW.

1ST STAGE IMPELLER P/N 3822067-2

1ST STAGE IMPELLER S/N 0365101491

~~M 7925~~ 2. BLEND PER SHOP PROCEDURE 49-22-10/SP01

371TL L 3. LEAD VERIFY BLENDING PER 49-22-10/SP01.

371TL L 4 LEAD FINAL CHECK.

NOTE - PUT THIS BALANCE JIC WITH PART IN CONTAINER AFTER COMPLETION. THIS JIC MUST BE ACCOUNTED FOR AND TURNED IN TO PRODUCTION CONTROL CENTER WHEN PART IS ON-LOGGED.

END JOB V2101.0 REVISED 5/23/94

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

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UNITED AIRLINES
SAN FRANCISCO, CA

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operator dav 07 23 13 08 45 AM

index balancing

file name : 331 C-1 IMP.
rotor : 0365101491
bal. speed: 1514. ↻/mn

run 6

plane 1	plane 2
8.69 moz	8.52 moz
at 124 deg	at 43 deg
in tol	in tol

index comp. AT E2

0

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

214386

331-200 WHEEL ASSEMBLY-1ST STAGE TURBINE

REV. 12/7/95

NV532 6146

~~NV000~~	~~00000~~	V2103.0
ORDER NO	ENGINE NO	JOB NO

M 7925 1 INSTALL BLADES AND TABLOCKS PER SHOP PROCEDURE 49-24-03/SP00.

M ~~7925~~ 2. BALANCE PER SHOP PROCEDURE 49-24-03/SP01 DATE 6/28/2013

FINAL UNBALANCE - GRAMS OR OZ-INCH ANGLE

A PLANE - .0086 257°

NOTE - LIST P/N AND S/N BELOW

1ST STAGE DISK P/N 3840019-1

1ST STAGE DISK S/N 0135703907

BLADE SET P/N 3840004-5

371TL L 3 ----- CONTINUOUS AIRWORTHINESS ITEM -----T1 TURBINE BLADE INSTALLATION - CHECK TABLOCK INSTALLATION PER SHOP PROCEDURE 49-24-03/SP00

No blending was needed 7925

371TL M X925 L 4. BLEND PER SHOP PROCEDURE 49-24-03/SP01.

371TL L 5. LEAD VERIFY BLENDING OF DISK PER 49-24-03/SP01.

6. LEAD FINAL CHECK

NOTE - PUT THIS BALANCE JIC WITH PART IN CONTAINER AFTER COMPLETION THIS JIC MUST BE ACCOUNTED FOR AND TURNED IN TO PRODUCTION CONTROL CENTER WHEN PART IS ON-LOGGED

END JOB V2103.0 REVISED 12/7/95

551

371TL L ALL ITEMS ARE PROPERLY SIGNED OFF

ENGINE MAINTENANCE DEPARTMENT

UNITED

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UNITED AIRLINES
SAN FRANCISCO, CA

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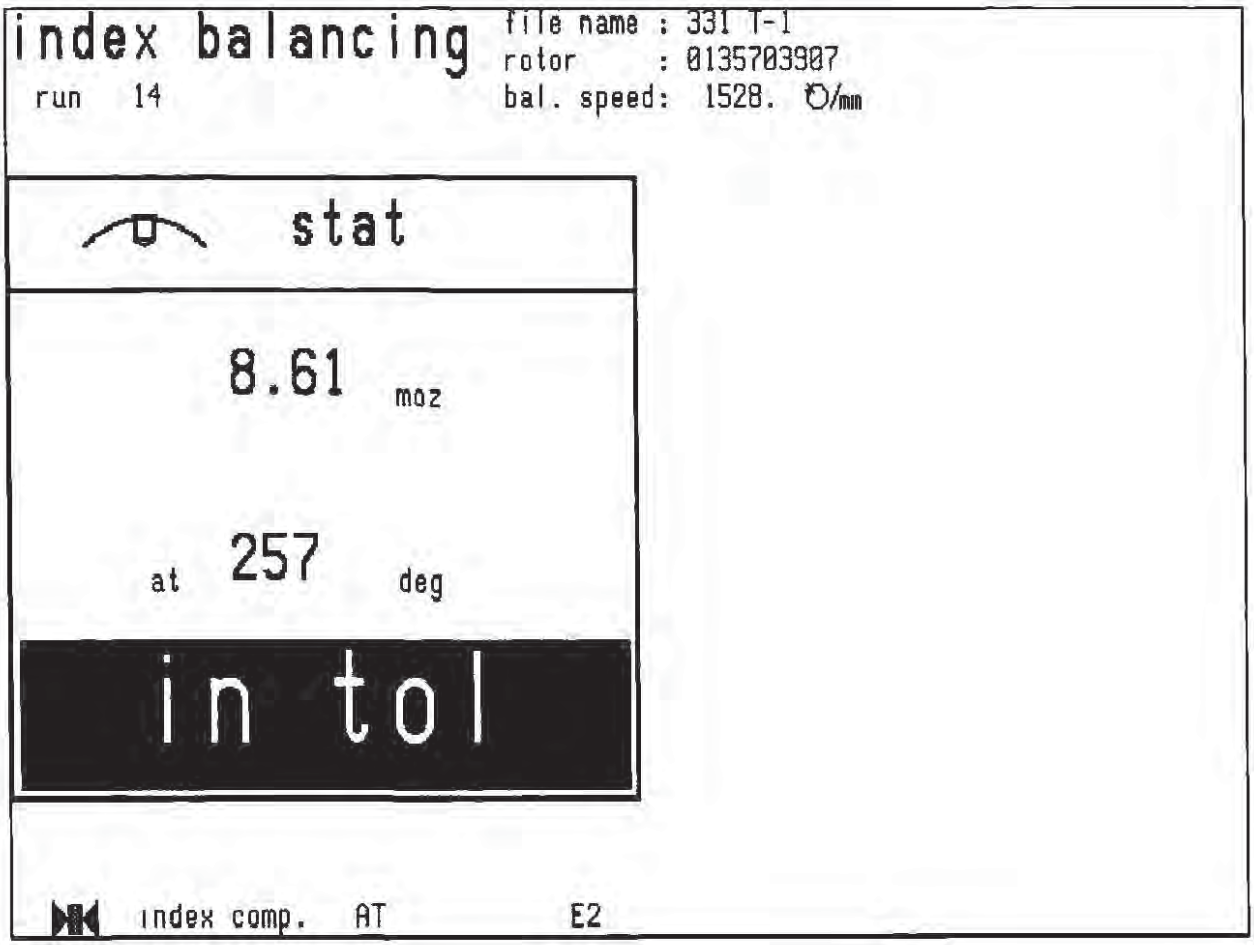
operator dav 06 28 13 07 44 AM



1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003519070Y14 5006416485-3034201-1

4 Organization Name and Address		Production Approval		5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072		PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9691388620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	BLADE TURBINE ROTOR, FIRST STAGE	3840004-5	N/A	36	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS BLADE TURBINE ROTOR, FIRST STAGE IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Florie McCrone	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Florie McCrone	**JUN 20 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/Installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

214386

331-200 WHEEL ASSEMBLY-2ND STAGE TURBINE

REV. 12/7/95

NV532 61646

~~NV000~~	~~00000~~	V2104 0
ORDER NO	ENGINE NO	JOB NO

M 7925 1. INSTALL BLADES AND TABLOCKS PER SHOP PROCEDURE 49-24-03/SP00

M 7925 2. BALANCE PER SHOP PROCEDURE 49-24-07/SP01

DATE 7/30/2013

FINAL UNBALANCE - GRAMS OR OZ-1NCH ANGLE

A PLANE - .00879 303

NOTE - LIST P/N AND S/N BELOW

2ND STAGE DISK P/N 3840007-1

2ND STAGE DISK S/N 0350101589

BLADE SET P/N 3840008-3

371TL L 3 ----- CONTINUOUS AIRWORTHINESS ITEM -----T2 TURBINE BLADE INSTALLATION - CHECK TABLOCK INSTALLATION PER SHOP PROCEDURE 49-24-03/SP00.

M 7925 4. BLEND PER SHOP PROCEDURE 49-24-07/SP01.

371TL L 5 LEAD VERIFY BLENDING OF DISK PER 49-24-07/SP01

371TL L 6 LEAD FINAL CHECK.

NOTE - PUT THIS BALANCE JIC WITH PART IN CONTAINER AFTER COMPLETION. THIS JIC MUST BE ACCOUNTED FOR AND TURNED IN TO PRODUCTION CONTROL CENTER WHEN PART IS ON-LOGGED

END JOB V2104.0 REVISED 12/7/95

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SAN FRANCISCO, CA

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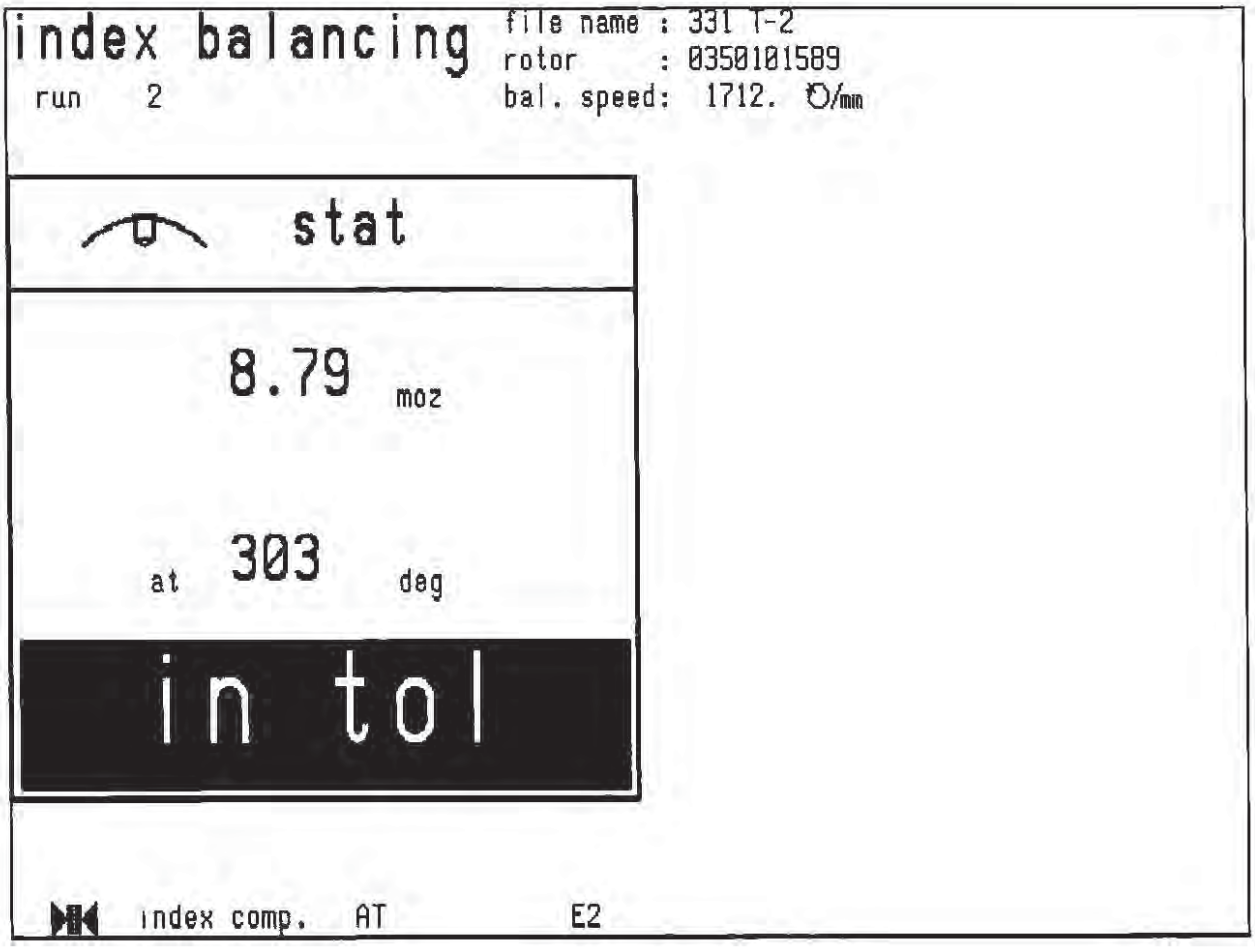
operator dav 07 30 13 12 28 PM



1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003583638Y14 5006484382-3081184-1

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9697008620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	BLADE, TURBINE ROTOR SECOND STAGE	3840008-2	N/A	40	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS BLADE, TURBINE ROTOR SECOND STAGE IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to	19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13
☒ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Steven Hester	**JUL 19 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, ENGINE TEST

REV. 4/26/07

V539	62697	V0103.0
ORDER NO	ENGINE NO	JOB NO

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT

V0002.0	- NON-ROUTINE ACCOUNTABILITY	
V0200.0	- ON-LOG INSPECTION	
V1522.0	APU RELEASE FORM	
V0103.5	DIAGNOSTIC RUN AND SERV. BEFORE TEST	
V0104.0	SERVICE BEFORE TEST	
V0105.1	ENGINE - TEST / RUN SHEET	
V0105.2	PRESERVATION (ENGINE TEST) PART 1	
V0106.0	SERVICE AFTER TEST	
V0106.1	PRESERVATION (SAT) PART 2	
V0106.5	SERVICE AFTER TEST LEAD CHECK	
V0106.6	SERVICE AFTER TEST LEAD RECHECK	
V0106.7	TEST CELL REPAIRS	
V0110.0	APU ENGINE SHIPPING	

7

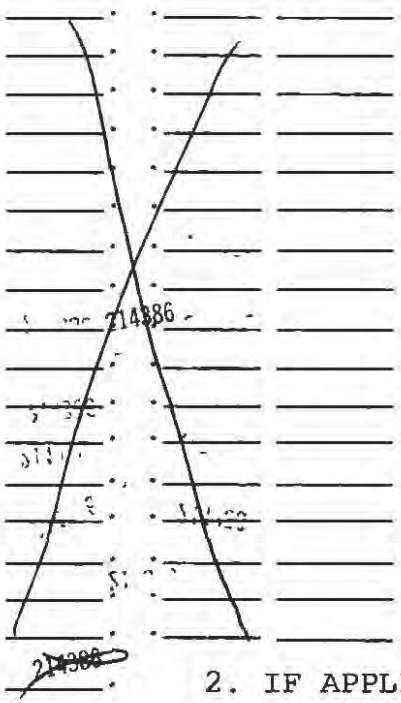
STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, ENGINE TEST

REV. 4/26/07

V539	62697	V0103.0
ORDER NO	ENGINE NO	JOB NO



2 No. COA's 214386

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

SIGNATURE: 214386 DATE: 8/22/13

END JOB V0103.0 REVISED 4/26/07

ENGINE MAINTENANCE DEPARTMENT

UNITED

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 APU RELEASE FORM

REV. 10/26/09

V539	62697	V1522.0
ORDER NO.	ENGINE NO	JOB NO

QC18517 I

1. REVIEW "ENGWRK" DISPLAY IN UNIMATIC TO ENSURE ALL ASSIGNED "ELR'S" ARE CLEARED AND ARE RECORDED IN APU AMIS FILE.

QC18517 I

2. ACCOMPLISH COMPUTER ENGINE FINAL RECORD CHECK TRANSACTION "ENGFRC".
INITIATE AND COMPLETE INSPECTION PORTION OF SERVICEABLE TAG.

371TL L

3. REPAIR AREA REVIEW DECISIONS HAVE BEEN ACCOMPLISHED.
ENGINE IS READY FOR TEST.

214386

4. ALL JOB CARD AND NON-ROUTINE DOCUMENTATION IS CLEARED AND ACCOUNTED FOR.
FORWARD LOG PACKAGE TO ENGINE RECORDS.

371TL L

5. AFTER TEST RUN INFORMATION:
FINAL RUN IS GOOD, YES 371TL NO_____ IF 'NO', LIST CAUSE OF REJECT. _____

6. FOREMAN OR DESIGNEE SIGNATURE VERIFIES THAT ENGINE IS SERVICEABLE, THERE ARE NO RESTRICTIONS AND ALL DEVIATIONS ARE CLOSED.

FOREMAN
OR DESIGNEE _____ DATE 8/22/13

371TL L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 APU RELEASE FORM

REV. 10/26/09

V539	62697	V1522.0
ORDER NO	ENGINE NO	JOB NO

END JOB V1522.0 REVISED 10/26/09

0C1821

0C1821

371TL

L

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ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 SERVICE BEFORE TEST

REV. 11/23/12

V539	62697	V0104.0
ORDER NO.	ENGINE NO.	JOB NO.

NOTE - SET TORQUE WRENCH TO THE TORQUE VALUE SPECIFIED. IF NO TORQUE VALUE IS SPECIFIED, USE STANDARD TORQUE PER GN-8-0-2-14.

CAUTION - SCRAP ANY SELF LOCKING NUT WHICH CAN BE TURNED PAST ITS LOCKING FEATURE BY HAND.

-----PREPARE FOR TEST-----

371TL L 1. PROVIDE ENG/MODULE SUMMARY REPORT (ENGMOD).

M 5810 2. INSTALL REAR ENGINE MOUNTS. TORQUE TO 80-100 IN. LBS. AND SAFETY WIRE (.032 WIRE).

M 5810 3. INSTALL FUEL INLET QUICK DISCONNECT FITTING.

M 5810 4. INSTALL FUEL PRESSURE TEST TEE FITTING & ADAPTER TUBE.

M 5810 5. INSTALL REDUCER AND OIL TEMPERATURE BULB IN GEARBOX.

M 5810 6. INSTALL MAIN ELECTRICAL HARNESS ADAPTER.

M 5810 7. INSTALL PS3 TEST TUBE. HANG PCD2 TUBE IN CONVIENT LOCATION TO BE INSTALLED DURING SERVICE AFTER TEST.

M 5810 8. CONNECT STARTER HARNESS LEADS TO STARTER TERMINALS.
HOLD BOTTOM NUT WITH WRENCH, TORQUE POSITIVE TOP NUT 80 LB. IN.
HOLD BOTTOM NUT WITH WRENCH, TORQUE NEGATIVE TOP NUT 50 LB. IN.

M 5810 9. INSTALL GENERATOR HARNESS.

M 5810 10. INSTALL TEST CELL EXAHUST PIPE, TORQUE CLAMP.

M 5810 11. REMOVE ALL SURPLUS PARTS FROM STALL SHELVES AND ROUTE TO PROPER DESTINATION.

M 5810 12. CLEAN ALL STALL SHELVES.

371TL L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 SERVICE BEFORE TEST

REV. 11/23/12

V539	62697	V0104.0
ORDER NO	ENGINE NO	JOB NO

371TL
_____L

13. VERIFY AND CLEAR ALL "ELR'S" BY REVIEWING "ENGWRK" DISPLAY IN UNIMATIC APU AMIS FILE.

371TL
_____L

14. LEAD CHECK - GENERAL SECURITY CHECK - PRIOR TO TEST. WRENCH CHECK.

END JOB V0104.0 REVISED 11/23/12

371TL
_____L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ENGINE - TEST / RUN SHEET

REV. 3/21/12

V539	62697	V0105.1
ORDER NO	ENGINE NO	JOB NO

DATE OF TEST RUN 8/21/2013 TEST CELL # 2

M 6412 1. INDICATE TYPE OF RUN. STAMP A, B, C, D OR E BELOW:

____ A. DIAGNOSTIC RUN

6412 B. REPAIR RUN POWER SECTION REFURBISHMENT

____ C. REPAIR RUN NO POWER SECTION REFURBISHMENT

____ D. IDLE LEAK CHECK

____ E. OIL CONSUMPTION

M 6412 2. INSTALL Tt7 INTERFACE JUMPER #1 AT THERMOCOUPLE BOX.

M 6412 3. INSTALL INLET TEMPERATURE FRAME.

M 6412 4. CHECK AND SERVICE OIL QUANTITY PRIOR TO ENGINE TEST. DUPLICATE SIGNOFF V0101.2

M 6412 5. INSTALL AND/OR CONFIRM ENGINE IS SECURED IN A RUN STAND.

M 6412 6. INSTALL VIBRATION MOUNTS AND PICKUPS. INSTALL VGG VIBRATION LEAD TO AFT PICKUP.

M 6412 A. INSTALL VAGB VIBRATION LEAD TO VAGB RECEPTACLE ON VIBRATION INTERFACE BOX AND FORWARD PICKUP.

M 6412 B. INSTALL VAGB COAXIAL CABLE TO VAGB RECEPTACLE ON SRS.

M 6412 C. INSTALL VGG COAXIAL CABLE TO VGG RECEPTACLE ON SRS.

M 6412 7. SECURE ENGINE IN TEST CELL PER ENGINE MANUAL TESTING SECTION 49-20-00.

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

M 6412 8. CHECK ENGINE AND CELL FOR CLEANLINESS AND SECURITY BEFORE ATTEMPTING ENGINE START. CHECK INLET AND EXHAUST FOR FOREIGN MATERIAL.

NOTE - TEST CELL OPERATOR HAS THE OPTION OF RUNNING THE APU IN MANUAL OR AUTO MODE.

M 6412 9. ACCOMPLISH ALTITUDE SIMULATION BLANKING PLATE PERFORMANCE TEST.

M 6412 10. PERFORM TEST OPERATIONS PER ENGINE MANUAL TESTING SECTION 49-20-00.

DID COOLING FAN VIBRATION EXCEED 1.0 IPS?

____ A. IF YES, REMOVE GENERATOR, INSTALL COVER PLATE AND REPEAT TEST. IF VIBRATION FALLS BELOW .6 IPS, REPLACE THE GENERATOR. IF VIBRATION IS HIGHER THAN .6 IPS, REPLACE THE COOLING FAN AND REPEAT TEST.

6412 B. IF NO, CONTINUE WITH TEST

M 6412 11. ACCOMPLISH A COMPRESSOR STALL CHECK PER ENGINE MANUAL TESTING SECTION 49-20-00, TO DETERMINE PNEUMATIC STABILITY OF THE LOAD COMPRESSOR. RECORD DCF RECORD DCF ACCOMPLISHED.

DCF 79

M 6412 12. ACCOMPLISH FLOW SENSOR ADJUSTMENT PER ENGINE MANUAL TESTING SECTION 49-20-00. RECORD THE DCF THAT THE SURGE VALVE CRACKS IN DUCT PRESSURIZATION MODE.

DP CRACK DCF 88

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ENGINE - TEST / RUN SHEET

REV. 3/21/12

V539	62697	V0105.1
ORDER NO	ENGINE NO	JOB NO

M 6412 13. ACCOMPLISH MES CRACK POINT CHECK PER ENGINE MANUAL TESTING SECTION 49-20-00. RECORD DCF THAT THE SURGE CONTROL VALVE CRACKS IN MES MODE.

371TL

MES CRACK DCF 98

LM 6412 14. ----- CONTINUOUS AIRWORTHINESS ITEM -----
CHECK FUEL MANIFOLD HOSE TO ATOMIZER FOR EVIDENCE OF LEAKING.

(6412) OK
( ) NOT OK

NO EVIDENCE OF LEAKING ALLOWED.
LIST ALL REPAIRS ON JIC V0106.7.

M 6412 15. SMOKE CHECK - WITH ENGINE OPERATING AT NO-LOAD, CHECK EXHAUST STACK FOR SMOKE. IF EXCESSIVE BLACK SMOKE OR ANY WHITE SMOKE IS OBSERVED, CONTACT SFOEP PERFORMANCE.

M 6412 16. REMOVE FUEL TEST "T" FITTING AND RECONNECT FUEL LINE AND LEAK CHECK IT.

M 6412 17. NON ROUTINE CELL WORK None 6412

M 6412 18. CHECK OIL LEVEL AND SERVICE AS REQUIRED.

ALL ITEMS ARE PROPERLY SIGNED OFF.

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ENGINE - TEST / RUN SHEET

REV. 3/21/12

V539	62697	V0105.1
ORDER NO	ENGINE NO.	JOB NO

M 6412 19. PARTS CHANGED IN TEST CELL.

NOMENCLATURE	S/N OFF	S/N ON	REASON FOR REPLACEMENT
None 6412			

371TL LM 6412 20. CHECK MAIN OIL SCREEN FOR FOREIGN MATERIAL.
"NO METAL ALLOWED"
SCREEN CONDITION OKAY. YES 6412 NO _____
IF YES, REPLACE FILTER.
IF NO, CONTACT FOREMAN FOR RE-REVIEW OF APU.

NOTE - TAG AND ROUTE ALL PARTS CHANGED TO HOME SHOP.

M 6412 21. REMOVE VIBRATION EQUIPMENT.

M 6412 22. REMOVE INLET TEMPERATURE FRAME.

M 6412 23. IF ENGINE IS TO BE PRESERVED, REQUEST JIC V0105.2 FROM SCHEDULE CENTER.

APU IS TO BE PRESERVED YES____ NO 6412

_____.M 6412 24. CUSTOMER ENGINES ONLY: VIDEO BORESCOPE SERVICE AFTER TEST INSPECTION REQUIRED. REQUEST FROM SCHEDULE CENTER JIC V0108.0

24. Not required. United APU. 6412

371TL
_____L

ALL ITEMS ARE PROPERLY SIGNED OFF.

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ENGINE - TEST / RUN SHEET

REV. 3/21/12

V539	62697	V0105.1
ORDER NO	ENGINE NO	JOB NO

371TL L 25. VERIFY JIC V0108.0 IS COMPLETE.

M 6412 26. MAKE TWO COPIES OF TEST SUMMARY SHEET. ATTACH ONE COPY TO TEST J.I.C. AND PROVIDE THE OTHER COPY ALONG WITH TEST LOG PACKAGE TO ENGINEERING.

M 6412 27. FILL OUT PROBLEM SHEET, MAKE ONE COPY OF PROBLEM SHEET. ATTACH TO TEST J.I.C.

371TL LM 6412 28. TESTED OK 6412 NOT OK ____

TCR FOR _____ EVA REQUESTED _____

IF TCR, THE FOLLOWING MUST BE SIGNED OFF AND DATED.
SHOP FORMAN_____DATE_____
ENGINEER_____DATE_____

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ENGINE - TEST / RUN SHEET

REV. 3/21/12

V539	62697	V0105.1
ORDER NO	ENGINE NO	JOB NO

END JOB V0105.1 REVISED 3/21/12

371TL

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 SERVICE AFTER TEST

REV. 9/15/09

V539	62697	V0106.0
ORDER NO	ENGINE NO	JOB NO

NOTE - SET TORQUE WRENCH TO THE TORQUE VALUE SPECIFIED. IF NO TORQUE VALUE IS SPECIFIED, USE STANDARD TORQUE PER GN-8-0-2-14.

CAUTION - SCRAP ANY SELF LOCKING NUT WHICH CAN BE TURNED PAST ITS LOCKING FEATURE BY HAND.

M 8012 1. REMOVE TESTCELL EXHAUST PIPE AND CLAMP.

M 8012 2. REMOVE TESTCELL STARTER HARNESS. TIGHTEN STARTER TERMINAL NUTS FINGER TIGHT.

M 8012 3. REMOVE GENERATOR HARNESS.

M 8012 4. REMOVE MAIN ELECTRICAL HARNESS ADAPTER.

M 8012 5. REMOVE PS3 TEST TUBE AND REINSTALL PCD2 TUBE.

M 8012 6. INSTALL GENERATOR TERMINAL COVER.

M 8012 7. REMOVE OIL TEMPERATURE BULB AND REDUCER FROM GEARBOX. INSTALL PLUG AND O-RING. TORQUE PLUG.

M 6412 8. REMOVE FUEL INLET QUICK DISCONNECT FITTING. INSTALL UNION AND O-RING. TORQUE UNION AND THEN CAP.

M 8012 9. INSTALL COVERS, CAPS, OR PLUGS ON ALL TEST EQUIPMENT.

Item #10 not applicable 8012

LM X 10. CUSTOMER ONLY: VIDEO BORESCOPE REQUIRED, REQUEST JIC V0108.0 FROM SCHEDULE CENTER. PREPARE ENGINE FOR BORESCOPE ACCESS.

I 11. CUSTOMER ONLY: VIDEO BORESCOPE LOAD COMPRESSOR IMPELLER LEADING EDGE AND TRAILING EDGE BLADES. C1 IMPELLER LEADING EDGE AND TRAILING EDGE BLADES. C1 VOLUTE AND LOAD COMPRESSOR VOLUTE. INSPECT PER EID 49-10-01 CRITERIA LIMITS. REQUEST JIC V0108.0 FROM SCHEDULE CENTER.

L ALL ITEMS ARE PROPERLY SIGNED OFF.

M 8012 12. REINSTALL PARTS REMOVED FOR BORESCOPE ACCESS.

M 8012 13. PROVIDE ENGINE MOUNT NUTS AND WASHERS IN CLOTH BAG ATTACHED TO LEFT REAR ENGINE MOUNT.

M 8012 14. RE-TORQUE AFT SCAVENGE PUMP ASSEMBLY NUTS TO 90 LB. IN. INSTALL TAIL CONE, SPACER AND SCREWS AND TORQUE TO 50 LB. IN.

M 8012 15. CHECK GEARBOX VENT LINE AT TURBINE EXHAUST FOR OIL WETNESS. MAXIMUM OIL DRIPPINGS IS 150 DROPS OR 10CC TOTAL.

M 6412 16. CHECK OIL LEVEL AND SERVICE AS REQUIRED.

M 6412 17. DRAIN FUEL FROM FILTER BOWL AND REINSTALL FILTER BOWL.

M 8012 18. VERIFY DRAIN MAST FITTINGS ARE IN UPPER HOLES OF DRAIN MAST PER IPC. (REF. IPC 50/60/65-49-16-00-011).

50-49-16-00-011
60-49-16-00-011
65-49-16-00-011

-------CONTINUOUS AIRWORTHINESS ITEMS ----------

CHECK SAFETY.

371TL
_____L 19. ROTATE ENGINE AND CHECK FOR UNUSUAL NOISES AND FOR FREEDOM OF ROTATION.

CAUTION - ROTATE ENGINE AFTER ENGINE HAS COOLED.

371TL
_____L 20. CHECK SAFETY OF MAIN OIL SCREEN

M 8012 21. INSTALL EXXON 2389 PLACARD (265-2389) ON FORWARD SIDE OF OIL FILLER HOUSING. REMOVE OTHER OIL PLACARDS.

M8012 22. INSTALL COVERS, CAPS OR PLUGS ON ALL APU OPENINGS.

371TL
_____L ALL ITEMS ARE PROPERLY SIGNED OFF.

M 8012 23. CLAMP FUEL LINE TO BRACKET BETWEEN FUEL CONTROL & FLOW DIVIDER VALVE.

M 8012 24. PERFORM SECURITY AND SAFETY CHECK OF ENGINE.
CHECK ALL TUBE AND HOSE NUTS FOR SECURITY.
ASSURE THAT FUEL NOZZLES ARE SECURE AND SAFETIED.
CHECK ELECTRICAL CONNECTORS FOR SECURITY. SAFETY AS REQUIRED.

M 8012 25. IF ENGINE IS TO BE PRESERVED, REQUEST JIC V0106.1 FROM SCHEDULE CENTER.

M 8012 26. THIS UNIT HAS BEEN PREPARED FOR SHIPMENT IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF U.S. DOT 49 CFR HAZARDOUS MATERIALS TRANSPORTATION REGULATIONS AND THE ICAO/IATA DANGEROUS GOODS REGULATIONS.

371TL
_____L 27. LEAD - FINAL CHECK OF ENGINE.
CHECK THAT SERVICEABLE TAG IS PRESENT IN PLASTIC ENVELOPE.
CHECK THAT V0108.0 IS COMPLETE.

371TL
_____L 28. ACCOMPLISH "ENGVST" TRANSACTION IN UNIMATIC TO RECORD THE ENGINE VISIT WORK COMPLETION. RECORD IN "ENGWRK" DISPLAY ANY OTHER OPEN ITEMS TO BE ACCOMPLISHED DURING APU INSTALLATION.

V539	62697	V0106.0
ORDER NO	ENGINE NO	JOB NO

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

END JOB V0106.0 REVISED 9/15/09

371TL

_____L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 SERVICE AFTER TEST LEAD CHECK

REV. 6/5/03

V539	62697	V0106.5
ORDER NO	ENGINE NO	JOB NO

NOTE - RECORD ALL DISCREPANCIES ON SERVICE AFTER TEST LEAD RECHECK JOB CARD V0106.6

371TL L	1. VERIFY ALL REPAIRS TO BE ACCOMPLISHED DURING OR AFTER TEST HAVE BEEN PROPERLY COMPLETED.
371TL L	2. CHECK FOR FREEDOM OF ROTATION AFTER ENGINE HAS COOLED. CHECK FOR UNUSUAL NOISES.
371TL L	3. CHECK INLET AND EXHAUST FOR DEBRIS, F.O.D. OR OBVIOUS DAMAGE.
371TL L	4. CHECK GENERATOR, STARTER AND MAIN ELECTRICAL CONNECTORS FOR BENT, BURNED OR PUSHED BACK PINS OR SOCKETS.
371TL L	5. CHECK THAT ALL CAPS AND PLUGS ARE INSTALLED, TIGHT AND, IF NECESSARY, SAFTIED.
371TL L	6. CHECK THAT PROPER MANUFACTURER ENGINE IDENTIFICATION DATA PLATE IS INSTALLED ON LOWER INLET PLENUM AND INSPECTION PLATE INSTALLED AND SECURE.
371TL L	7. CHECK THAT UA S/N I.D. PLATE IS INSTALLED BELOW GEARBOX. CHECK ALL MOUNTED ACCESSORIES FOR PROPER INSTALLATION.
371TL L	8. CHECK THAT ENGINE MOUNT AND SHIPPING MOUNT BOLTS ARE INSTALLED AND TIGHTENED AFTER APU IS INSTALLED IN SHIPPING STAND.
371TL L	9. CHECK THAT NEW ENGINE MOUNT NUTS AND WASHERS ARE PROVIDED IN CLOTH BAG ATTACHED TO LEFT AFT MOUNT.
371TL L	10. CHECK THAT ALL PROTECTIVE COVERS ARE INSTALLED ON INLET AND EXHAUST.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 SERVICE AFTER TEST LEAD CHECK

REV. 6/5/03

V539	62697	V0106.5
ORDER NO	ENGINE NO	JOB NO

END JOB V0106.5 REVISED 6/5/03

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 TEST CELL REPAIRS

REV. 6/2/10

V539	62697	V0106.7
ORDER NO	ENGINE NO	JOB NO

NOTE - USE THIS JIC TO RECORD ANY WORK NEEDS TO BE ACCOMPLISHED OTHER THAN THE TEST ITSELF.

NOTE - LEAD, SIGN-OFF IN LEFT HAND COLUMN.
MECHANIC, SIGN-OFF IN RIGHT HAND COLUMN.

NOTE - IF NO DISCREPANCIES FOUND, WRITE NONE.

DISCREPANCY OR ACTION

M6412 (1) Generator oil filter bowl not safetied to gearbox drain boss.

371TL LM6012 Safetied.

M6412 (2) Oil pump differential pressure indicator not safetied.

371TL LM6012 Safetied.

M6412 (3) Flow sense module adjustment bolt not safetied & cover not installed.

371TL LM6412 Safetied bolt & installed cover.

371TL

_____L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 TEST CELL REPAIRS

REV: 6/2/10

V539	62697	V0106 7
ORDER NO	ENGINE NO	JOB NO

END JOB V0106.7 REVISED 6/2/10

371TL

L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 APU ENGINE SHIPPING

REV. 11/22/85

V539	62697	V0110.0
ORDER NO	ENGINE NO	JOB NO

END JOB V0110.0 REVISED 11/22/85

37171 L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 APU ENGINE SHIPPING

REV. 11/22/85

V539	62697	V0110.0
ORDER NO	ENGINE NO	JOB NO

M8012 1. ATTACH LIFTING SLING TO ENGINE AND REMOVE ENGINE FROM RUN OR BUILD STAND.

371TL L 2. CHECK ENGINE MOUNTS FOR SECURITY OF INSTALLATION ON ENGINE.

M8012 3. POSITION ENGINE IN SHIPPING STAND AND SECURE WITH SAFETY PINS ON ENGINE MOUNTS.

371TL L 4. CHECK ENGINE FOR SECURITY AND PROPER INSTALLATION IN SHIPPING STAND.

371TL L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003444340Y14 5006305118-2981763-1

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
	Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9684318620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	CONE TAIL	3850008-1	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS CONE TAIL IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130.21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Stephen J. Robinson	ODA-602216-NM		
17. Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J. Robinson	**MAY 16 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

UNITED AIRLINES ENGINE SIT AD VERIFICATION

AOP PA/-46-05-00-13

ENGINE TYPE GTCP331-200 ENGINE S/N 62697 ORDER NO. V539

AD NUMBER	TITLE	INSTRUCTIONS FOR APPLICABILITY	INSTRUCTIONS FOR VERIFICATION	SPOT VER
NO ACTIVE AIRWORTHINESS DIRECTIVES (AD)				NA

This report applies to this engine visit only. For Engine AD status, see United Airlines AD Compliance Record.

Signature _____ Date 8/23/13

KEY: C/W = complied with this visit
PCW = previously complied with
N/A = not applicable this visit
FCW = factory complied with

CONTR DATE

1/6/9

ENH652D0 * * * ENGINE MAINTENANCE SYSTEM * * * 09/12/13 08:08:41
UNTLIM * * * UNIT HARD LIMITS REPORT * * * PAGE: 1
* * * CURRENT POWER RATING * * *

ORDER NUMBER	ENGINE TYPE	MODULE TYPE	SERIAL NUMBER	CUSTOMER UA			
V539	V		62697	CURRENT PWR RTG 200E	TSN	18025	LOW NONE
				NOUN APU331	CSN	23603	LOW 04664
					DAYS REMAINING		NONE

TIMES/CYCLES CURRENT TO THIS MAINTENANCE

FUNC/MOD NAME	SERIAL NUMBER PART NUMBER	LIMIT VALUE	SERIAL ACCUMS	EVENTS	REMAINING VALUE
01009-001 T3 WHEEL ASSY	0734502190 3840022-4	025000	11789	CSN	13211
01007-001 DISK T2 TURBINE	0350101589 3840007-1	020000	15336	CSN	04664
01004-001 DISK T1 TURBINE	0135703907 3840019-1	020000	12823	CSN	07177

* * * END OF REPORT * * *

ENH647D0 ENGINE MAINTENANCE SYSTEM 09/12/13 08:07:55
ENGMOD ENGINE/MODULE SUMMARY REPORT PAGE: 1

ORDER NUMBER\	ENGINE TYPE\	MODULE TYPE\	SERIAL NUMBER\	NOUN	CUST-OMER	CURRENT POWER RTG	PRIOR ORDER
V529	V		62697	APU331	UA	200E	V665

PRINT: ACTUALS: ACCUMS/SUBS: DIMENSIONS: COAS: LIMITS:
P Y

OFF FLEET 767 OFF AC NBR N668UA-APU DATE ON 122810 DATE OFF 063013
SERVICEABLE STATUS S DATE-LAST-SERV 082213
COMMENTS

ACCUMULATIONS AND SUB-ASSEMBLIES

ACCUMS:	18025 TSN	23603 CSN	00000 TSAPUSAM1
	00000 CSAPUSAM1	00000 TSAPUSAM2	00000 CSAPUSAM2
	00000 TSAPUSAM3	00000 CSAPUSAM3	

MT	MODULE NAME	SER NBR	ORDNO	OFF DATE	ON DATE	TSHM	TSMI
F	DRIVEN COMP SE	P-1985	V535	061813	081313		00000
N	POWER SECTION	P1392	V532	060313	081313		00000
A	GEARBOX ASSMBLY	P1536	V534	062113	081313		00000

* * * END OF REPORT * * *

ENH647D0 ENGINE MAINTENANCE SYSTEM 09/12/13 08:08:02
ENGMOD ENGINE/MODULE SUMMARY REPORT PAGE: 1

ORDER NUMBER\	ENGINE TYPE\	MODULE TYPE\	SERIAL NUMBER\	NOUN	CUST-OMER	CURRENT POWER RTG	PRIOR ORDER
FV535	V	F	P-1985	DRIVEN COMP SE	UA	200E	V306

PRINT: P ACTUALS: ACCUMS/SUBS: Y DIMENSIONS: COAS: LIMITS:

ON ORDNO V539 ON SERIAL 62697 DATE ON 081313 DATE OFF 061813
SERVICEABLE STATUS S DATE-LAST-SERV 080213
COMMENTS

ACCUMULATIONS AND SUB-ASSEMBLIES

ACCUMS:	18556 TSN	27490 CSN	00000 TSMI
	00000 CSMI	00000 TSMDPI	00000 CSMDPI

MT	MODULE NAME	SER NBR	ORDNO	OFF DATE	ON DATE	TSHM	TSMI

* * * END OF REPORT * * *

ENH647D0 ENGINE MAINTENANCE SYSTEM 09/12/13 08:08:15
ENGMOD ENGINE/MODULE SUMMARY REPORT PAGE: 1

ORDER NUMBER\	ENGINE TYPE\	MODULE TYPE\	SERIAL NUMBER\	NOUN	CUST-OMER	CURRENT POWER RTG	PRIOR ORDER
NV532	V	N	P1392	POWER SECTION	UA	200E	V334

PRINT:	ACTUALS:	ACCUMS/SUBS:	DIMENSIONS:	COAS:	LIMITS:
P		Y			

ON ORDNO V539 ON SERIAL 62697 DATE ON 081313 DATE OFF 060313
SERVICEABLE STATUS S DATE-LAST-SERV 081313
COMMENTS

ACCUMULATIONS AND SUB-ASSEMBLIES

ACCUMS:	25892 TSN	29050 CSN	00000 TSMI		
	00000 CSMI	00000 TSRE-BUILD	00000 CSRE-BUILD		

MT	MODULE NAME	SER NBR	ORDNO	OFF DATE	ON DATE	TSHM	TSMI

* * * END OF REPORT * * *

ENH647D0 ENGINE MAINTENANCE SYSTEM 09/12/13 08:08:23
ENGMOD ENGINE/MODULE SUMMARY REPORT PAGE: 1

ORDER NUMBER\	ENGINE TYPE\	MODULE TYPE\	SERIAL NUMBER\	NOUN	CUST-OMER	CURRENT POWER RTG	PRIOR ORDER
AV574	V	A	P1536	GEARBOX ASSMBL	UA	200E	V466

PRINT: ACTUALS: ACCUMS/SUBS: DIMENSIONS: COAS: LIMITS:
P Y
ON ORDNO V539 ON SERIAL 62697 DATE ON 081313 DATE OFF 062113
SERVICEABLE STATUS S DATE-LAST-SERV 073013
COMMENTS

ACCUMULATIONS AND SUB-ASSEMBLIES

ACCUMS:	29385 TSN	36105 CSN	00000 TSMI
	00000 CSMI	00000 TSMDPI	00000 CSMDPI

MT	MODULE NAME	SER NBR	ORDNO	OFF DATE	ON DATE	TSHM	TSM1

* * * END OF REPORT * * *

ENH692D0 * * ENGINE MAINTENANCE SYSTEM * * 09/12/13 08:08:35
ENGRVW UNITED AIRLINES ENGINE/MODULE REVIEW PAGE: 1

ORDER NUMBER: V539 ET: V MT: SERIAL NUMBER: 62697
NOUN: APU331 CUST: UA POWER RATING: 200E PRIOR-ORDNO: V665
UPDATE NBR: 02 REVISION NBR: 01 DATE: 07/15/13 REVISED BY: 075564
OFF FLEET 767 OFF AC NBR-POS N668UA-APU DATE ON: 12/28/10
DATE MAINTENANCED: 06/30/13 STA: GSO
SERVICEABLE STATUS: S DATE SERV: 08/22/13
COMMENTS: FIX LETTER: N
DATE LSV: 09/07/10 TSLV: 03070 CSLV: 04199 TSLM: 03070 CSLM: 04199
ACCUMS: 18025 TSN 23603 CSN 00000 TSAPUSAM1 00000 CSAPUSAM1
00000 TSAPUSAM2 00000 CSAPUSAM2 00000 TSAPUSAM3 00000 CSAPUSAM3

REASON REMOVED : APU HAS LOW BLEED PRESSURE
REVIEW COMMENTS: TYPE REPAIR: ESV
BORESCOPE: TYPE OF RUN: H
REPAIR DECISION:
PBC.ROUTE NV.FV.AV MODULES.FAN.LUBE PUMP.(JH7/8)

			REMAINING				ROUTE TIME/LIMIT	
MT	MODULE NAME	SER NBR	HOURS	CYCLE	TSHM	TSMI	THR	W/C INSTRUCTION
F	DRIVEN COMP SE	P-1166	N/A	N/A	UNK	03070	NONE	
N	POWER SECTION	P-1266	N/A	04148	UNK	03070	B	
A	GEARBOX ASSMBL	P209	N/A	N/A	UNK	03070	NONE	

*** END OF REPORT ***

UNITED AIRLINES

APU TEST CELL SUMMARY

Test Cell # 2
Test Completed: 8/21/13 Engine Model GTCP-331 Engine Serial No 62697
Customer Code: UA Order No. V539 Run Type: Power Section Ref

START DATA

PARAMETER	16% N2 DATA	LIMIT	30% N2 DATA	LIMIT	50% N2 DATA	LIMIT	95% N2 DATA	LIMIT
Date	8/21/13		8/21/13		8/21/13		8/21/13	
Time	13 10:58		13 11: 5		13 11 18		13.11 36	
Time	3.5		10.1		23.0		40.5	
NArpm	6320		12074		19914		37734	
NA %	15.9		30.3		50.0		94.7	
Vgg	.05		.13		16		.12	
Vagb	.04		09		12		.30	
Wf-1	67		57		97		205	
Pfpump	2		2		.1		.1	
Poilpump	1.3		8.8		29.8		63.0	
Pfinlt	26.9		26.7		26.7		26.6	
CITAvg	36.2		35.6		33.9		31.4	
ACCEL	1215.9		702.2		684.0		1073.5	
Toil	96.8		96.6		92.6		86.6	
Tt7Avg	141 9	1028 degC	551.2	912 degC	670.6	826 degC	383.5	633 de
EGTAvg	165.4		628 1		729.6		385.9	

UNITED AIRLINES

APU TEST CELL SUMMARY

Test Cell # 2
Test Completed: 8/21/13 Engine Model: GTCP-331 Engine Serial No 62697
Customer Code. UA Order No V539 Run Type: Power Section Ref

PARAMETER	IDLE DATA	LIMIT	GENERATOR DATA	LIMIT
Date	8/21/13		8/21/13	
Time	8.42.29		12.44 24	
NArpm	39823		39864	
NA %	99.9		100.0	
PMGAB (Loaded)	104		90	81-102 vac
PMGBC (Loaded)	105		91	81-102 vac
PMGAC (Loaded)	104		90	81-102 vac
KVA1	0		85	
GENAB	208		207	203-212 vac
GENBC	208		208	203-212 vac
GENAC	208		207	203-212 vac
GENFREQ	396		397	395-405 hz
Vgg	13	1.0 ips	10	1 0 ips
Vagb	.12	1.0 ips	.15	1.0 ips
DpCond	86		77	
PtCond	14.72		14 70	
P2Cond	14.74		14.74	
Pfpump	203.6		249 1	
PoilPump	64.7	60-75 psig	65 4	
Pagb	-1.4	-1.8 psig	-1.3	
Ps3	99 4		101.4	
CITAvg	21.5		26.8	
Toil	88.8	152 degC	82.2	
Tt7Avg	320.8	500.0 degC	371.3	
EGTAvg	321.6		372 5	
EGT1	329.1		384.2	
EGT2	314.2		360 9	
Wf-1	208		254	

UNITED AIRLINES

APU TEST CELL SUMMARY

Test Cell # 2
Test Completed: 8/21/13 Engine Model. GTCP-331 Engine Serial No 62697
Customer Code UA Order No V539 Run Type. Power Section Ref

PARAMETER	COMB LOAD DATA	LIMIT	PERFORMANCE DATA	LIMIT	ALTITUDE DATA	LIMIT
Date	8/21/13		8/21/13		8/21/13	
Time	12:56.18		10:37.15		9.24 28	
NArpm	40398		40398		40413	
NA %	101.4	101 %	101.4	101 %	101.4	101 %
Vgg	.12	1.0 ips	.12	1.0 ips	.12	1 0 ips
Vagb	.22	1.0 ips	.15	1.0 ips	.14	1.0 ips
IGV-lvdt	-11		-18		-18	
SV-TM	73		68		100	
DCP	95.9		95 9	95-97 ppm	95.5	95-97 ppm
KVA1	90		0		0	
WBcorr	268.4		273.1	259.0 ppm	281.3	261.7 ppm
Wf-1	400		366		366	
HP70	492.6		505.6		515.2	
NC	8		8		.8	
DpCond	2.62		2.77		3.08	
PtCond	52 30		53 40		55.11	
P2Cond	14 71		14 72		14 72	
PBcorr	52.84		53.81	52.58 psia	55.53	53.00 psia
Pcell	14.67		14.68		14.68	
Pfpump	459.2		402.4		402.6	
PoilPump	63.4		64.4	60-75 psig	67.9	60-75 psig
Pagb	-1 6		-1.7		2.3	
Ps3	110.7		111.3		113.3	
CITAvg	29.4		25.9		22.4	
CIT1	28.9		25.4		22 1	
CIT2	29.1		26.3		22.9	
CIT3	29.8		26.2		22.6	
CIT4	29.9		26 2		22.5	
TBcorr	202.9		203.9		201.3	
Tfinlt	32.5		23.2		19.8	
Toil	110.6		96.4		94.9	
Tt7Avg	530 4		478 1		475.1	
Tt7AvgCorr	526.1		470.6	501.0 degC	459.7	493.2 degC
EGT1	553 2		499 9		492.0	
EGT2	526.3		464.8		460.2	
EGTAvg	539 6		482.4		475.9	

UNITED AIRLINES

APU TEST STATUS SUMMARY

Test Completed. 8/21/13 | Engine Model: GTCP-331 | Engine Serial No: 62697
Customer Code UA | Order No: V539 | Run Type: Hot Section Repai
Total Runtime 1 56 26 | Fuel Used: 0 gals

AUTORUN TASKS	*COMPLETED*	*PASS/FAIL*
Altitude Simulation Test	YES	Passed
Oil In Bleed Air*	YES	Passed
Performance Run	YES	Passed
Combined Load	YES	Passed
Generator Check	YES	Passed
Surge Control	YES	Passed
Leak/Instrumentation/Idle	YES	Passed
Start	YES	Passed
Fuel bleed	YES	Passed

COMPONENT(s) REPAIRED/REPLACED

NO COMPONENTS WERE REPAIRED .or. REPLACED

TESTED OK 6412 NOT OK _____

BY: E Adams 077493

DATE. 8/21/2013

ENGINE MAINTENANCE RECORDS

LOG CERTIFICATION FORM D-199

REF: PAOP 45-55-30-04

CONTROLLED DOCUMENT - DO NOT DUPLICATE

ALL PORTIONS OF BUILD LOGS ARE COMPLETE AND ACCURATE FOR ENGINE/STAND-ALONE MODULES.

ESN 62697

Repair Order Number V539

Power Rating 331-200E

IN ADDITION, THE A D VERIFICATION CHECKLIST (AS SUPPLIED BY SFOEP) IS ON FILE IN SFOMR/PA AS PART OF THE ENGINE LOG.

THE FOLLOWING ITEMS MUST BE CLEARED BEFORE THE ENGINE/STAND-ALONE MODULE IS RELEASED. (IF NONE, SO STATE)

NONE.

SFOMR/PA _____ **Date** 8/22/2013

Shirley Buffert

ORIGINAL

FOR SFOMR / PA USE ONLY

WHEN ENGINE MAINTENANCE RETURNS THIS D-199 TO SFOMR/PA AS A RESULT OF A TEST CELL INTERRUPT (TCI) OR A TEST CELL REJECT (TCR), FILL OUT THE FOLLOWING INFORMATION.

REASON: **TCI or TCR?** _____

SFOMR/PA _____ **Date**

(SIGNATURE HERE RENDERS THIS D-199 NULL AND VOID)

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	016-A00525975

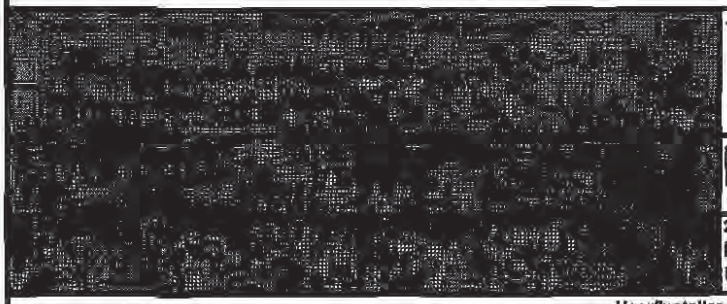
4. Organization Name and Address	5 Work Order/Contract/Invoice Number
UNITED United Air Lines, Inc 233 South Wacker Drive, Chicago IL 60606 (CALA014A)	WC153

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Qty	11 Serial/Batch #	12 Status/Work
(1)	SWITCH-GEN OIL FLTR DELTA P	UA P/N MR49902	N/A	1	UA MR DASH 465	REPAIRED

13 Remarks

ITEM 1 REPAIRED I A W UAL SPECIFICATION-RC-60-49-90-09-JD REVISION DATE 03/28/2000
END

SPEC 2000 ID SPL 81979- UCN L1X6156



19 ☑ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13 the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

20 Authorized Signature	21 Approval/Certificate No
	CALA014A
22 Name (Typed or Printed)	**23 Date (m/d/y)**
BENNY GUZMAN U059383	JUL/26/2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulation of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross-check eligibility with applicable technical data

[FAA form 8130-3 (6-01)-NSN 0052-00-012-9005]

24. Stock Control Information		
	RCS CONTROLLED ? YES	PCN 481-1503
	HOME SHOP SFOEC - 153	FINAL ROUTING 481
	SHELF LIFE(IN MONTHS) 99	BATCHABLE? NO
	SHIP & STORE IN CONTAINER A	

25 UNITED RUC

26 Part Removed Tag

27. ROUTED BY (PRINT LAST NAME & F/N):	28. STATION:	29. DATE:

30	PCN	PART NUMBER	DESCRIPTION	DASH NO ON	MFG S/N	UTSO
ON UNIT	481-1503	MR49902	SWITCH-GEN OIL FLTR DEL TA P	465	40687U	

31	PCN	PART NUMBER	DESCRIPTION	DASH NO OFF	MFG. S/N
OFF UNIT					

32 REMOVAL & INSTALLATION DATA	COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED		COMPLETE AS REQUIRED	
	PLANE NO.	PLANE TT	NHA PCN	NHA DASH #	NHA** CODE	POSITION

REASON FOR REMOVAL OR REPORTED TROUBLE(INCLUDE LINE CENTER/WU).

☐ TIME (SCHEDULED MAINT.) ☐ TROUBLE (SUSPECTED FAILURE OR TROUBLE SHOOTING) ☐ OTHER (COA, DAMAGE, WEAR OR CONVENIENCE)

NO FURTHER MAINTENANCE REQUIRED

** NHA (NEXT HIGHER ASSEMBLY) CODES A OR BLANK = AIRPLANE, G = LANDING GEAR, P = APU, 1, 2, 3 OR 4 = ENGINE

GMM 07-65-40

1 Approving National Aviation Authority/Country	2	3. Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	016-A00528435

4. Organization Name and Address*	5.Work Order/Contract/Invoice Number*
UNITED United Air Lines, Inc 233 South Wacker Drive, Chicago IL 60606 (CALA014A)	WC124

6 Item	7 Description	8. Part Number	9. Eligibility *	10 Qty	11 Serial/Batch #*	12. Status/Work:
(1)	STARTER-APU	UA P/N MR49408	N/A	1	UA MR DASH 93	OVERHAULED

13 Remarks

ITEM 1 OVERHAULED I A W UAL SPECIFICATION AC-60-49-40-01-JD REVISION DATE MAY/17/2012
END

SPEC 2000 ID SPL 81979- UCN L1X79767

19. ☑ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

20 Authorized Signature	21 Approval/Certificate No
	CALA014A
22. Name (Typed or Printed) FERNANDO GONZALEZ U104750	**23. Date (m/d/y)** AUG/13/2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulation of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross-check eligibility with applicable technical data.

[FAA form 8130-3 (6-01)-NSN 0052-00-012-9005]

24 Stock Control Information		
	RCS CONTROLLED ? YES	PCN 651-1150
	HOME SHOP* SFOEC - 124	FINAL ROUTING 651
	SHELF LIFE(IN MONTHS) 99	BATCHABLE? NO
	SHIP & STORE IN CONTAINER 06*	

25 **UNITED** D03

26 **Part Removed Tag**	27. ROUTED BY (PRINT LAST NAME & F/N).	28. STATION:	29. DATE.

	PCN	PART NUMBER	DESCRIPTION	DASH NO ON	MFG. S/N.	UTSO
30. ON UNIT	651-1150	MR49408	STARTER-APU	93	11-2379	
31 OFF UNIT	PCN	PART NUMBER	DESCRIPTION	DASH NO. OFF	MFG. S/N.	

32. REMOVAL & INSTALLATION DATA	COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED		COMPLETE AS REQUIRED	
	PLANE NO.	PLANE TT	NHA PCN	NHA DASH #	NHA** CODE	POSITION

REASON FOR REMOVAL OR REPORTED TROUBLE(INCLUDE LINE CENTER/WU):

☐ TIME (SCHEDULED MAINT.) ☐ TROUBLE (SUSPECTED FAILURE OR TROUBLE SHOOTING) ☐ OTHER (COA, DAMAGE, WEAR OR CONVENIENCE)

NO INSTALLABLE UNIT WITHIN THIS TRANSACTION REQUIRED

** NHA (NEXT HIGHER ASSEMBLY) CODES A OR BLANK = AIRPLANE, G = LANDING GEAR, P = APU, 1, 2, 3 OR 4 = ENGINE

GMM 07 65-40

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	016-A00526840

4. Organization Name and Address	5.Work Order/Contract/Invoice Number
UNITED United Air Lines, Inc 233 South Wacker Drive, Chicago, IL 60606 (CALA014A)	WC153

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Qty	11 Serial/Batch #	12. Status/Work
(1)	SWITCH-APU OIL LEVEL	UA P/N MR49937	N/A	1	UA MR DASH 242	INSPECTED/TESTED

13 Remarks

THE UNIT WAS INSPECTED ACCORDING TO SPECIFICATION RC-60-49-93-02-JD REV DATE MAY/13/1999
END

SPEC 2000 ID SPL 81979- UCN 128580

19 ☑ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13 the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

20 Authorized Signature	21 Approval/Certificate No
104442	CALA014A
22. Name (Typed or Printed) WILLIAM GREEN U104442	**23 Date (m/d/y)** AUG/01/2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulation of an airworthiness authority different than the airworthiness authority of the country specified in Block 1 it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross-check eligibility with applicable technical data

[FAA form 8130-3 (6-01)-NSN 0052-00-012-9005]

24 Stock Control Information		
	RCS CONTROLLED ? YES	PCN 481-0284
	HOME SHOP SFOEC - 153	FINAL ROUTING 481
	SHELF LIFE(IN MONTHS) 99	BATCHABLE? NO
	SHIP & STORE IN CONTAINER JW*	

25 UNITED

26 Part Removed Tag	27. ROUTED BY (PRINT LAST NAME & F/N)	28. STATION	29 DATE

	30 ON UNIT	31 OFF UNIT
PCN	481-0284	
PART NUMBER	MR49937	
DESCRIPTION	SWITCH-APU OIL LEVEL	
DASH NO ON	242	
MFG S/N	242	
UTSO		
DASH NO OFF		
MFG S/N		

32 REMOVAL & INSTALLATION DATA

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED		COMPLETE AS REQUIRED	
PLANE NO	PLANE TT	NHA PCN	NHA DASH #	NHA** CODE	POSITION

REASON FOR REMOVAL OR REPORTED TROUBLE(INCLUDE LINE CENTER/WU):

☐ TIME (SCHEDULED MAINT.) ☐ TROUBLE (SUSPECTED FAILURE OR TROUBLE SHOOTING) ☐ OTHER (CDA, DAMAGE, WEAR OR CONVENIENCE)

REPORTABLE UNSCHEDULED TROUBLE? YES/NO REQUIRED

** NHA (NEXT HIGHER ASSEMBLY) CODES A OR BLANK = AIRPLANE, G = LANDING GEAR, P = APU, 1, 2, 3 OR 4 = ENGINE

GMM 07-65-40

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	016-A00521582

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
UNITED United Air Lines, Inc 233 South Wacker Drive, Chicago, IL 60606 (CALA014A)	WC152

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Qty	11 Serial/Batch #	12 Status/Work
(1)	SWITCH-TEMPERATURE DE OIL ING C	MFG P/N 1173T0337-01	N/A	1	MFG S/N 080922707372	INSPECTED/TESTED

13 Remarks

ITEM 1 INSPECTED/TESTED I.A W UAL SPECIFICATION EL-60-49-26-01-JD REVISION DATE AUG/01/2003
END

SPEC 2000 ID SPL 81979- UCN 577674

[redacted]

19 ☑ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13 the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

20 Authorized Signature	21 Approval/Certificate No
	CALA014A
22 Name (Typed or Printed)	**23 Date (m/d/y)**
MICHAEL RIIS U039291	JUN/25/2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly
Where the user/installer performs work in accordance with the national regulation of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross-check eligibility with applicable technical data

[FAA form 8130-3 (6-01)-NSN 0052-00-012-9005]

24. Stock Control Information		
	RCS CONTROLLED ? YES	PCN 563-3130
	HOME SHOP SFOEC - 152	FINAL ROUTING 563
	SHELF LIFE(IN MONTHS) 99	BATCHABLE? NO
	SHIP & STORE IN CONTAINER JW	

25 **UNITED**

26 **Part Removed Tag**	27. ROUTED BY (PRINT LAST NAME & F/N)	28. STATION	29. DATE

	PCN	PART NUMBER	DESCRIPTION	DASH NO ON	MFG S/N	UTSO
30 ON UNIT	563-3130	1173T0337-01	SWITCH-TEMPERATURE DE O ILING C		080922707372	
31 OFF UNIT	PCN	PART NUMBER	DESCRIPTION	DASH NO OFF	MFG S/N	

32 REMOVAL & INSTALLATION DATA

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED		COMPLETE AS REQUIRED	
PLANE NO	PLANE TT	NHA PCN	NHA DASH #	NHA** CODE	POSITION

REASON FOR REMOVAL OR REPORTED TROUBLE(INCLUDE LINE CENTER/WU)

☐ TIME (SCHEDULED MAINT) ☐ TROUBLE (SUSPECTED FAILURE OR TROUBLE SHOOTING) ☐ OTHER (COA, DAMAGE, WEAR OR CONVENIENCE)

** NHA (NEXT HIGHER ASSEMBLY) CODES A OR BLANK = AIRPLANE, G = LANDING GEAR, P = APU, 1, 2, 3 OR 4 = ENGINE

GMM 07-65-40

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	016-A00521984

4. Organization Name and Address	5.Work Order/Contract/Invoice Number
UNITED United Air Lines Inc 233 South Wacker Drive, Chicago, IL 60606 (CALA014A)	WC153

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Qty	11 Serial/Batch #	12. Status/Work
(1)	OIL PRESSURE SWITCH P/N ASP	UA P/N MR49272	N/A	1	UA MR DASH 109	INSPECTED/TESTED

13 Remarks

ITEM 1 INSPECTED AND TESTED I A W UAL SPECIFICATION PER RC-60-49-94-02-JD REV DATE OCT/24/2003
END

SPEC 2000 ID SPL 81979- UCN 264028

[redacted]

19. ☑ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14 Code of Federal Regulations, part 43 and in respect to that work the items are approved for return to service

20 Authorized Signature	21 Approval/Certificate No
	CALA014A
22. Name (Typed or Printed)	**23 Date (m/d/y)**
JAMES APILADO U102005	JUN/27/2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulation of an airworthiness authority different than the airworthiness authority of the country specified in Block 1 it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross-check eligibility with applicable technical data

[FAA form 8130-3 (8-01)-NSN 0052-00-012-9005]

24 Stock Control Information		
	RCS CONTROLLED ? YES	PCN 265-3641
	HOME SHOP SFOEC - 153	FINAL ROUTING 265
	SHELF LIFE(IN MONTHS) 99	BATCHABLE? NO
	SHIP & STORE IN CONTAINER	

25 UNITED

26 Part Removed Tag	27 ROUTED BY (PRINT LAST NAME & F/N):	28. STATION:	29. DATE:

30 ON UNIT	PCN	PART NUMBER	DESCRIPTION	DASH NO ON	MFG S/N	UTSO
	265-3641	MR49272	OIL PRESSURE SWITCH P/N ASP	109	C010090	

31 OFF UNIT	PCN	PART NUMBER	DESCRIPTION	DASH NO. OFF	MFG. S/N.

32 REMOVAL & INSTALLATION DATA	COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED		COMPLETE AS REQUIRED	
	PLANE NO	PLANE TT	NHA PCN	NHA DASH #	NHA** CODE	POSITION

REASON FOR REMOVAL OR REPORTED TROUBLE(INCLUDE LINE CENTER/WU):

☐ TIME (SCHEDULED MAINT.) ☐ TROUBLE (SUSPECTED FAILURE OR TROUBLE SHOOTING) ☐ OTHER (COA, DAMAGE, WEAR OR CONVENIENCE)

RECOMMENDED REPAIR/OVERHAUL PROCEDURE REQUIRED

** NHA (NEXT HIGHER ASSEMBLY) CODES A OR BLANK = AIRPLANE, G = LANDING GEAR, P = APU, 1, 2, 3 OR 4 = ENGINE

GMM 07-65-40

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SFOMR1 SFOBB SFOMR SFOLMEMC SFOEPA SFO1Z SFOPD6
SFOIQ
.HLOCOUA 221425/JAC


SPARE APU CHECK ACCOMPLISHMENT RECORDED -- APU SERVICEABLE
      SOURCE OF CURRENT SERVICEABLE STATUS IS THE AMIS ENGVST DISPLAY
*******HAZMAT*****HAZMAT    PCN: 265-9101    HAZMAT********HAZMAT******HAZMAT*******
ENG SN:  62697 331- 200E     ETT:  18025:16    ETC:  23603    RCS NBR:     -
A  CI   CHECK HAS BEEN ACCOMPLISHED AT SFO ON 22AUG2013 AT 0726
BY: 018617  JACK HUNTINGTON
LOC ON FIELD:
REMARKS: APU RECEIVED C CHECK AT SHOP VISIT.



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:0822214225 101608 0347
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UNITED

PSEN442A-1 UNITED AIRLINES ENGINE MAINTENANCE SYSTEM PAGE 1
06/30/13 COMPOSITION LIST FOR UNIT TIME 21.30

REASON: REMOVAL REQUESTOR: PSEN440A PHONE: ORG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V539 MODULE TYPE MODULE NAME WORK CENTER 551

WORK CENTER. 551 TSLV. 03070 CSLV: 04199 TSLM. 03070 CSLM. 04199

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V539	N668UA	APU	GSO	APU HAS LOW BLEED PRESSURE	06/30/13

UNIT ACCUMULATIONS

								LIMITS THIS EMO	WTY
18025	TSN	23603	CSN	UNK	TSAPUSAM1	UNK	CSAPUSAM1	A	
UNK	TSAPUSAM2	UNK	CSAPUSAM2	UNK	TSAPUSAM3	UNK	CSAPUSAM3		

UNIT'S COMPOSITION

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS						LIMITS THIS EMO	WTY
DRIVEN COMP SE	F	P-1168	27617 TSN	36906 CSN	03070 TSMI	04199 CSMI				
			03070 TSMDPI	04199 CSMDPI						
POWER SECTION	N	P-1266	25657 TSN	32425 CSN	03070 TSMI	04199 CSMI				
			UNK TSRE-BUILD	UNK CSRE-BUILD						
GEARBOX ASSMBLY	A	P209	27318 TSN	36468 CSN	03070 TSMI	04199 CSMI				
			03941 TSMDPI	05720 CSMDPI						

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS						LIMITS THIS EMO	WTY	UNATH PRT
05650 C01	P-1122	UNK	TSN	UNK	CSN	03941 TSDPI				
FAN -SHROUDED R	3616959-6	05720 CSDPI								

REASON: REMOVAL REQUESTOR: PSEN440A PHONE: ORG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V539 MODULE TYPE MODULE NAME WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V539	N668UA	APU	QSO	APU HAS LOW BLEED PRESSURE	06/30/13

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	LIMITS WTY
DRIVEN COMP SE	F	P-1166	27617 TSN	36906 CSN	03070 TSMI	04199 CSMI		
			03070 TSMDPI	04199 CSMDPI				

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	LIMITS WTY	UNATH PRT
00988 001	UA00481274	UNK TSN	UNK CSN	03070 TSDPI			
IGV ASSY VARIBL	3810231-21	04199 CSDPI					
00989 001	0365103273	09855 TSN	14168 CSN	03070 TSDPI		YES	
IMPELLER-DRCOMP	3822080-3	04199 CSDPI					
05760 001	09-S-08639	03070 TSN	04199 CSN	03070 TSDPI		YES	
BRNG-D/C THRUST	3613827-1	04199 CSDPI					
05746 001	09-0-17651	03070 TSN	04199 CSN	03070 TSDPI		YES	
BRNG-D/C ROLLER	3822099-1	04199 CSDPI					

UNITED

PSEN442A-1 UNITED AIRLINES ENGINE MAINTENANCE SYSTEM PAGE 3
06/30/13 COMPOSITION LIST FOR LOWER ASSEMBLY TIME. 21.30

REASON: REMOVAL REQUESTOR: PSEN440A PHONE: ORG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V539 MODULE TYPE MODULE NAME WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST
62697	V		APU331	200E	UA UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V539	N668UA	APU	GSO	APU HAS LOW BLEED PRESSURE	06/30/13

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	LIMITS WTY
POWER SECTION	N	P-1266	25657 TSN	32425 CSN	03070 TSMI	04199 CSMI		
			UNK TSRE-BUILD	UNK CSRE-BUILD				

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	LIMITS WTY	UNATH PRT
05719 001	00224	03070 TSN	04199 CSN	03070 TSDPI		YES	
BRNG,P/S-THRUST	3613827-1WE	04199 CSDPI					
05720 001	09-0-14166	03070 TSN	04199 CSN	03070 TSDPI		YES	
BRNG,P/S-ROLLR	3822099-1	04199 CSDPI					
00993 001	9-501-2130	UNK TSN	UNK CSN	03070 TSDPI			
C1 COMP IMPELLR	3822067-2	04199 CSDPI					
00995 001	0-3501-896	25637 TSN	32342 CSN	03070 TSDPI			
C2 COMP IMPELLR	3822068-1	04199 CSDPI					
01002 001	15-229332R	UNK TSN	UNK CSN	03070 TSDPI			
COMB CHMBANNULR	3830051-5	04199 CSDPI					
01005 001	09-3-00305	03070 TSN	04199 CSN	03070 TSDPI		YES	
T1 STATOR VANE	3844038-4	04199 CSDPI					
01009 001	0234510215	10327 TSN	18885 CSN	03070 TSDPI			
T3 WHEEL ASSY	3840022-4	04199 CSDPI					
01007 001	0350101634	13387 TSN	12417 CSN	03070 TSDPI			
DISK T2 TURBINE	3840007-1	04199 CSDPI					
01004 001	0235702427	09539 TSN	15852 CSN	03070 TSDPI		YES	
DISK T1 TURBINE	3840019-1	04199 CSDPI					
01014 001	UA00489495	03070 TSN	04199 CSN	03070 TSDPI	B		
NOZZLE SET PRIM	331NOZPRI1	04199 CSDPI					

REASON: REMOVAL
SERIAL NUMBER 62697
ORDER NUMBER V539

ENGINE TYPE V
MODULE TYPE

REQUESTOR: PSEN440A
ENGINE NAME APU331
MODULE NAME

PHONE:

ORG:

CUST CODE UA
WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER CODE	CUST	
62697		V	APU331		UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V539	N668UA	APU	GSO	APU HAS LOW BLEED PRESSURE	06/30/13

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS				LIMITS THIS EMO	WTY	UNATH PRT
01015 001	UA00489503	UNK	TSN	UNK	CSN	03070 TSOPI	8	
NOZZLE SET SECD	331NOZSEC1	04199 CSOPI						

REASON: REMOVAL REQUESTOR: PSEN440A PHONE: ORG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V539 MODULE TYPE MODULE NAME WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V539	N668UA	APU	GSO	APU HAS LOW BLEED PRESSURE	06/30/13

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	LIMITS WTY
GEARBOX ASSMBLY	A	P209	27318 TSN	36468 CSN	03070 TSMI	04199 CSMI		
			03941 TSMDPI	05720 CSMDPI				

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS					LIMITS THIS EMO	LIMITS WTY	UNATH PRT
00987 001	9P-16254	UNK	TSN	UNK	CSN	03941 TSDPI			
GEARBOX HOUSING	3862699-3	05720 CSDPI							

* * * END OF REPORT FOR ENG - V MT - SN - 62697 * * *

REASON: AT REMOVAL — REQUESTOR: REMOVAL — PHONE: — ORG:
SERIAL NUMBER 62697 — ENGINE TYPE V — ENGINE NAME APU331 — CUST CODE UA
ORDER NUMBER V539 — MODULE TYPE — MODULE NAME — WORK CENTER 551

WORK CENTER. 551 TSN. 18025 CSN. 23603 TSLM. 03070 CSLM. 04199 TSLV. 03070 CSLV. 04199

SERIAL NBR	ET	MT	NAME	POWER	CUST	LIMIT TYPE	LIMIT VALUE	UNIT	ACCUMULATION	REMAINING VALUE	LIMIT IN NLA UNIT	* HARD LIMIT NLA LOWEST REMAINING
62697	V		APU331	200E	UA	A	002000	UNK	TSAPUSAM2	******	B	
						A	001000	UNK	TSAPUSAM1	******		C 04148
REASON MAINT: APU HAS LOW BLEED PRESSURE						A	003000	UNK	TSAPUSAM3	******		

MODULE LIMIT SUMMARY - HARD AND THRESHOLD

NAME	MT	SERIAL NBR	COMMENTS	LIMIT TYPE	LIMIT VALUE	MODULE ACCUMULATION	REMAINING VALUE	LIMIT IN NLA UNIT	HARD LIMIT NLA LOWEST REMAINING
DRIVEN COMP SE	F	P-1166							
POWER SECTION	N	P-1266						B	C 04148
GEARBOX ASSMBLY	A	P209							

REASON: AT REMOVAL — REQUESTOR: REMOVAL — PHONE: — ORG:
SERIAL NUMBER 62697 — ENGINE TYPE V — ENGINE NAME APU331 — CUST CODE UA
ORDER NUMBER V539 — MODULE TYPE — MODULE NAME — WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST
62697	V		APU331	2CGE	UA

ORDER NUMBER	REASON REMOVED OR MAINTENANCED	DATE MAINT
V539	APU HAS LOW BLEED PRESSURE	06/30/13

FUNCTION LIMITS BY NHA - HARD AND THRESHOLD

NHA NAME — MT — SERIAL NBR

POWER SECTION — N — P-1266

FUNC POS NAME	SERIAL NBR PART NUMBER	COMMENTS	LIMIT TYPE	LIMIT VALUE	FUNCTION ACCUMULATION	REMAINING VALUE
01009 001 T3 WHEEL ASSY	02345102I5 3840022-4	(02013451021I5)	H	025000	18885 CSN	06115
			B	005000	04199 CSDPI	00801
01007 001 DISK T2 TURBINE	0350101634 3840007-1	LOT 303983	H	020000	12417 CSN	07583
			B	005000	04199 CSDPI	00801
01004 001 DISK T1 TURBINE	02357O2427 3840019-1		H	020000	15852 CSN	04148
			B	005000	04199 CSDPI	00801
01014 001 NOZZLE SET PRIM	UA00489495 331NOZPRI1		B	000001	03070 TSDPI	******
01015 001 NOZZLE SET SECD	UA00489503 331NOZSEC1		B	000001	03070 TSDPI	******

UNITED

PSEN443A
06/30/13

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
THRESHOLD LIMIT REPORTS FOR UNIT

REASON: AT REMOVAL
SERIAL NUMBER 62697
ORDER NUMBER V539

ENGINE TYPE V
MODULE TYPE

REQUESTOR: REMOVAL
ENGINE NAME APU331
MODULE NAME

PHONE:
CUST CODE UA
WORK CENTER 551

ORG:

WORK CENTER. 551 TSN. 18025 CSN. 23603 TSLM. 03070 CSLM. 04199 TSLV. 03070 CSLV. 04199

SERIAL NBR	ET	MT	NAME	POWER	CUST	LIMIT TYPE	UNIT ACCUMULATION		NLA LIMITS THIS EMO
62697	V		APU331	200E	UA	A	UNK	TSAPUSAM2	B
						A	UNK	TSAPUSAM1	
						A	UNK	TSAPUSAM3	

REASON MAINT: APU HAS LOW BLEED PRESSURE

MODULE THRESHOLD LIMIT SUMMARY

NAME	MT	SERIAL NBR	COMMENTS	LIMIT TYPE	MODULE ACCUMULATION	NLA LIMITS THIS EMO
POWER SECTION	N	P-1266				B

REASON: AT REMOVAL
SERIAL NUMBER 62697 ENGINE TYPE V REQUESTOR: REMOVAL PHONE: ORG:
ORDER NUMBER V539 MODULE TYPE ENGINE NAME APU331 CUST CODE UA
MODULE NAME WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST
62697	V		APU331	2006	UA

ORDER NUMBER	REASON REMOVED OR MAINTENANCED	DATE MAINT
V539	APU HAS LOW BLEED PRESSURE	06/30/13

FUNCTION THRESHOLD LIMITS BY NHA

NHA NAME MT SERIAL NBR

POWER SECTION N P-1266

FUNC NAME	POS	SERIAL NBR / PART NUMBER	COMMENTS	LIMIT TYPE	LIMIT VALUE	FUNCTION ACCUMULATION
01014	001	UAC0489495		B	000001	03070 TSDPI
NOZZLE SET PRIM		331NOZPRI1				
01015	001	UA00489503		B	000001	03070 TSDPI
NOZZLE SET SECD		331NOZSEC1				

UNITED

PSEN443A
06/30/13

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
DISC SHEET AND HARD LIMIT REPORT

REASON: AT REMOVAL
SERIAL NUMBER 62697
ORDER NUMBER V539

ENGINE TYPE V
MODULE TYPE

REQUESTOR: REMOVAL
ENGINE NAME APU331
MODULE NAME

PHONE:
CUST CODE UA
WORK CENTER 551

ORG:

WORK CENTER. 551 TSN. 18025 CSN. 23603 TSLM. 03070 CSLM. 04199 TSLV. 03070 CSLV. 04199

SERIAL NBR	ET	MT	NAME	POWER	CUST	LIMIT VALUE	HARD LIMIT UNIT ACCUMULATION	REMAINING VALUE	NLA LOWEST REMAINING VALUE
62697	V		APU331	200E	UA				C 04148

ORDER NUMBER	REASON REMOVED OR MAINTENANCED	DATE MAINT
V539	APU HAS LOW BLEED PRESSURE	06/30/13

MODULE HARD LIMIT SUMMARY

NAME	MT	SERIAL NBR	COMMENTS	LIMIT VALUE	HARD LIMIT MODULE ACCUMULATION	REMAINING VALUE	NLA LOWEST REMAINING VALUE
POWER SECTION	N	P-1266					C 04148

REASON: AT REMOVAL
SERIAL NUMBER 62697
ORDER NUMBER V539
ENGINE TYPE V
MODULE TYPE
REQUESTOR: REMOVAL
ENGINE NAME APU331
MODULE NAME
PHONE:
ORG:
CUST CODE UA
WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST
62697	V		APU331	200E	UA

ORDER NUMBER	REASON REMOVED OR MAINTENANCED	DATE MAINT
V539	APU HAS LOW BLEED PRESSURE	06/30/13

FUNCTION HARD LIMITS BY NHA

NHA NAME MT SERIAL NBR

POWER SECTION N P-1266

FUNC POS NAME	SERIAL NBR PART NUMBER	HARD LIMIT VALUE	FUNCTION ACCUMULATION		REMNG VALUE	REPLACE YES	REPLACE NO	ASSIGNED SERIAL NO	REM HRS	LIFE CYLS	DISC DISP
01009 001 T3 WHEEL ASSY	0234510215 3840022-4	025000	18885	CSN	06115						
01007 001 DISK T2 TURBINE	0350101634 3840007-1	020000	12417	CSN	07583						
01004 001 DISK T1 TURBINE	0235702427 3840019-1	020000	15852	CSN	04148						

REASON: AT REMOVAL
SERIAL NUMBER 62697
ORDER NUMBER V539
EFFECTIVE MODEL V-UA-ESV

ENGINE TYPE V
MODULE TYPE

REQUESTOR: REMOVAL
ENGINE NAME APU331
MODULE NAME

PHONE:
CUST CODE UA
WORK CENTER 551

ORG:

ALL LIFE LIMITED PARTS MEET BUILD LIMITS

ALL LIFE LIMITED PARTS MEET TEARDOWN GOALS

*** END OF REPORT FOR ENG - V MT - SN - 62697

UNITED

PSEN442A-1 UNITED AIRLINES ENGINE MAINTENANCE SYSTEM PAGE 1
09/12/13 COMPOSITION LIST FOR UNIT TIME. 21 30

REASON: INSTALLATION REQUESTOR: MCCOMP PHONE: ORG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V539 MODULE TYPE MODULE NAME WORK CENTER 551

WORK CENTER. 551 TSLV. 03070 CSLV. 04199 TSLM. 03070 CSLM. 04199

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V539	N608UA	APU	QSO	APU HAS LOW BLEED PRESSURE	06/30/13

UNIT ACCUMULATIONS

				LIMITS THIS EMQ	LIMITS WTY
18025 TSN	23603 CSN	00000 TSAPUSAM1	00000 CSAPUSAM1		
00000 TSAPUSAM2	00000 CSAPUSAM2	00000 TSAPUSAM3	00000 CSAPUSAM3		

UNIT'S COMPOSITION

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMQ	LIMITS WTY
DRIVEN COMP SE	F	P-1985	18556 TSN	27490 CSN	00000 TSMI	00000 CSMI		
			00000 TSMDPI	00000 CSMDPI				
POWER SECTION	N	P1392	25892 TSN	29050 CSN	00000 TSMI	00000 CSMI		
			00000 TSRE-BUILD	00000 CSRE-BUILD				
GEARBOX ASSMBLY	A	P1536	29385 TSN	36105 CSN	00000 TSMI	00000 CSMI		
			00000 TSMDPI	00000 CSMDPI				

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMQ	WTY	UNATH PRT
05650 001	P-2096	UNK TSN	UNK CSN	00000 TSDPI			
FAN -SHROUDED R	3616959-6	00000 CSDPI					

REASON: INSTALLATION REQUESTOR: MOCOMP PHONE: ORG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V539 MODULE TYPE MODULE NAME WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V539	N668UA	APU	GSO	APU HAS LOW BLEED PRESSURE	06/30/13

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	LIMITS WTY
DRIVEN COMP SE	F	P-1985	18556 TSN	27490 CSN	00000 TSMI	00000 CSMI		
			00000 TSMDPI	00000 CSMDPI				

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	LIMITS WTY	UNATH PRT
00988 001	UAOO315683	17048 TSN	23560 CSN	00000 TSDPI			
IGV ASSY VARIBL	3910231-21	00000 CSDPI					
00989 001	0650109938	05613 TSN	09896 CSN	00000 TSDPI		YES	
IMPELLER-DRCOMP	3822080-3	00000 CSDPI					
05780 001	11-5-09334	00000 TSN	00000 CSN	00000 TSDPI		YES	
BRNG-D/C THRUST	3613827-1	00000 CSDPI					
05746 001	1355-06205	00000 TSN	00000 CSN	00000 TSDPI		YES	
BRNG-D/C ROLLER	3822099-1	00000 CSDPI					

REASON: INSTALLATION — REQUESTOR: MCCOMP — PHONE: — ORG:
SERIAL NUMBER 62697 — ENGINE TYPE V — ENGINE NAME APU331 — CUST CODE UA
ORDER NUMBER V539 — MODULE TYPE — MODULE NAME — WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST
62697		V	APU331	2000	UA UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V539	N668UA	APU	GSO	APU HAS LOW BLEED PRESSURE	06/30/13

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS			LIMITS THIS EMD	WTY
POWER SECTION	N	P1392	25892 TSN	29050 CSN	00000 TSMI 00000 CSMI		
			00000 TSRE-BUILD	00000 CSRE-BUILD			

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMD	WTY	UNATH PRT
05719 001 BRNG,P/S-THRUST	F13-3272 3613827-1WE	00000 TSN 00000 CSDPI	00000 CSN	00000 TSDPI		YES	
05720 001 BRNG,P/S-ROLLR	SN55-06235 3822099-1	00000 TSN 00000 CSDPI	00000 CSN	00000 TSDPI		YES	
00993 001 C1 COMP IMPELLR	0385101491 3822067-2	UNK TSN 00000 CSDPI	UNK CSN	00000 TSDPI			
00995 001 C2 COMP IMPELLR	0322900940 3822068-1	UNK TSN 00000 CSDPI	UNK CSN	00000 TSDPI			
01002 001 COMB CHMBANNULR	48222858 3830051-5	UNK TSN 00000 CSDPI	UNK CSN	00000 TSDPI			
01005 001 T1 STATOR VANE	13-3-02331 3844038-4	00000 TSN 00000 CSDPI	00000 CSN	00000 TSDPI		YES	
01009 001 T3 WHEEL ASSY	0734502190 3840022-4	06780 TSN 00000 CSDPI	11789 CSN	00000 TSDPI			
01007 001 DISK T2 TURBINE	0350101589 3840007-1	09152 TSN 00000 CSDPI	15336 CSN	00000 TSDPI		YES	
01004 001 DISK T1 TURBINE	0385703907 3840019-1	12038 TSN 00000 CSDPI	12823 CSN	00000 TSDPI			
01014 001 NOZZLE SET PRIM	UA00509349 331NOZPRI1	UNK TSN 00000 CSDPI	UNK CSN	00000 TSDPI			

UNITED

PSEN442A-1 UNITED AIRLINES ENGINE MAINTENANCE SYSTEM PAGE 4
09/12/13 COMPOSITION LIST FOR LOWER ASSEMBLY TIME. 21.30

REASON: INSTALLATION REQUESTOR: MOCOMP PHONE: ORG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V539 MODULE TYPE MODULE NAME WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V539	N668UA	APU	GSO	APU HAS LOW BLEED PRESSURE	06/30/13

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS	LIMITS THIS EMO	WTY	UNATH PRT
01015 001	UA00509350	UNK TSN UNK CSN 00000 TSOPI			
NOZZLE SET SECD	331N025EC1	00000 CSOPI			

REASON: INSTALLATION REQUESTOR: MOCOMP PHONE: ORG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V539 MODULE TYPE MODULE NAME WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V539	N668UA	APU	GSO	APU HAS LOW BLEED PRESSURE	06/30/13

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	WTY
GEARBOX ASSMBLY	A	P1536	29385 TSN	36105 CSN	00000 TSMI	00000 CSMI		
			00000 TSMDPI	00000 CSMDPI				

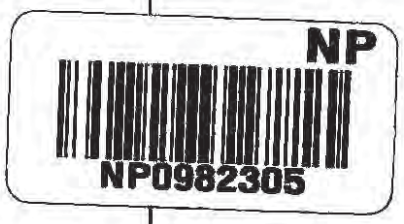
FUNC NAME	POS	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	WTY	UNATH PRT
00987 001		12-1-33184	00185 TSN	00164 CSN	00000 TSDPI		YES	
GEARBOX HOUSING		3862699-3	00000 CSDPI					

* * * END OF REPORT FOR ENG - V MT - SN - 62697 * * *

Index Form

=4/23/15
3 01:40PM

Doc. Type:	**TAG**
Tracking Number:	NP0982305
Activity Date:	**08/22/13**
Doc Number:	**EON: V539**
Ref Doc:	
Aircraft Number:	
MFG P/N:	
M&E :	
S/N:	**2697**
OP Step:	
Station:	
ATA Code:	
Fleet:	
Vendor Code:	
Package Type:	**ESV**
Package Date:	**08/22/13**
Comments:	**APU-200**
PREPPED BY :	**RITA PAZ** — **YOUR NAME HERE**
PREPPED DATE:	**4/3/2015** — **TODAY'S DATE**



UAL ENGINE / APU ROM Index
Vendor Imaging Systems Control Sheet Version

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2	01	☑	Serviceable Engine & Module Tag
	02	☑	Engine I & R Tags
	03	☑	Module I & R Tags
	04	☐	Non Routine's
	05	☐	Engine Customer Maintenance Tags
	06	☐	Module Customer Maintenance Tags
3	01	☐	Engine Job Instruction Cards
4	01	☐	Module Job Instruction Cards

A	B	C	D	E	F	G
H	I	J	K	L	M	N
P	Q	R	S	T	U	V
W	X	Y				

5	01	☐	COA'S
6	01	☐	Engine Inspection & Condition Sheet, Miscellaneous Documents
	02	☐	Fulfillment Center ICS
7	01	☐	Module Inspection & Condition Sheet

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P	Q	R	S	T	U	V
W	X	Y				

8	01	☐	AD Verification - Checklist
	02	☐	Unit Hard Limit Report
9	01	☐	Final Accountability and Test Cell JIC's
10	01	☐	D-199 (Records Certification)
	02	☐	8130 or ENGVST meter (Engine Certification)
11	01	☐	Customer Documents
12	01	☐	Removal Composition Report
	02	☐	Limit Planning Report
	03	☐	Installation Composition Report

FV535 QC18617

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-9103	3804002-11	Compressor Drum	DASH NO ON	MFG SER NO. P-1985 / UTSO ϕ

MAINT SHOPS	PS												HOME SHOP	SHIP CONT	BATCHABLE	R
QC18617	X	QC18617	7870										551			

DATE SERVICEABLE: 02 AUG. 2013 / QUANTITY: 1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		1X539 / 62697	P	APU	8/19/13	STOP B

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

#105539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY QC18617

ON V539

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

AV534 4059087

UNITED
I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265 9104	3862180-21-4004	ACCY GEARBOX	DASH NO ON –	MFG SER NO P1536

UTSO: Ø

MAINT SHOPS	PS											HOME SHOP: 552	SHIP CONT	BATCHABLE	
4059087	X	4059087	7089									DATE SERVICEABLE: 30 SEP 2013		QUANTITY: 1 EA	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAA'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		1539/62697	P	APU	8/19/13	SFOPB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME
2 ☐ TROUBLE
3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

#105539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY 0618617

ON V539

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL * 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

NV 532 QC18617

UNITED
I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265 9102	380 1003-8	Power Section	DASH NO ON	MFG SER NO P1392 / UTSO 0

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
QC18617	X	QC18617	5810									DATE SERVICEABLE 13 AUG 2013		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPECS & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO 539 / 62697	NHA CODE* P	POSITION APU	DATE 8/19/13	STA SFOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME
2 ☐ TROUBLE
3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO. #105539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY [illegible]

ON V539

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
645-0019	MR49512	oil cooler	DASH NO ON	MFG SER NO 39 / UTSO

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
7066	X	7066										552			

DATE SERVICEABLE: 6-20-13 | QUANTITY: 1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		V539 / 62697	P	APU	8/19/13	TOPB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

#105539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS *IN THIS AREA* Repaired by OSV 7066

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

SHIP IN CONTAINER
RCS CONTROLLED PART

UNITED
I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
643	0563	MR47532 VALVE	DASH NO ON 5	MFG SER NO P-276

UTSO: G

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE
	D	B76	M35	B78								B78	RF	N N

	X	**VENDOR REPAIRED**	DATE SERVICEABLE 8/19/13 — QUANTITY 1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO.	PLANE TSO	NHA PCN AND DASH NO	NHA CODE	POSITION	DATE	STA
		V539 / 62697	P	APU	8/19/13	FOPB

REMOVAL CODE SEE BACK OF YELLOW STUB
1 ☐ TIME
2 ☐ TROUBLE
3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

SIGNATURE (OR STAMP) & FILE NO. [illegible] 186589

REPORTABLE UNIT-MRDATA TRANSACTION REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIRED BY OSV VENDOR WORK REC AND 8130-3 ON FILE P/O # S9887822051

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1☐ YES 2☐ NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL? 5☐ YES 6☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE - OTHER SIDE OF TAG

DISPOSITION 1☐ OVERHAULED 2☐ SERVICEABLE 3☐ TO VENDOR 4☐ SCRAPS/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

RCS CONTROLLED PART

HARD TIME UNIT-SERVICEABLE

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
643	0129 3289504-2-600U	VALV	DASH NO ON —	MFG SER NO 46458R

UTSO

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE
	□	878	N35	878								878	000	N
	X	VENDOR REPAIRED										DATE SERVICEABLE 26-JUN-2013		QUANTITY 1EA

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		V539/62697	P	APU	8/19/13	SFOFB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 □ TIME

2 □ TROUBLE

3 □ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO

10539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIRED BY OSV VENDOR WORK REC AND 8130-3 ON FILE P/O # 5988-782-1429

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

RCS CONTROLLED PART

UNITED
I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265	9157	MR49115 MIDDLE	DASH NO ON 40	MFG SER NO SX6607A / UTSO G

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE
	0	876	N35	876								876	000	N C
	X	VENDOR REPAIRED										DATE SERVICEABLE JUN 20 2013		QUANTITY ONE

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA BCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		1639/62697	P	APU	6/19/13	SFO

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME
2 ☐ TROUBLE
3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

NOT

SIGNATURE (OR STAMP) & FILE NO.

REPORTABLE UNIT-MRDATA TRANSACTION REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIRED BY OSV VENDOR WORK REC AND 8130-3 ON FILE P/O # S9888312.111

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1☐ YES 2☐ NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL? 5☐ YES 6☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE - OTHER SIDE OF TAG

DISPOSITION 1☐ OVERHAULED 2☐ SERVICEABLE 3☐ TO VENDOR 4☐ SCRAPS/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

RCS CONTROLLED PART

HARD TIME UNIT-SERVICEABLE

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
643	0130	3616848-2 VAL	DASH NO ON	MFG SER NO 0951 / UTSO

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
	R	263										263	000	N	0
	X	Vendor Repaired										DATE SERVICEABLE 24 APR 2013		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPECS & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE	POSITION	DATE	STA
		V639/62697	P	APU	4/19/13	SFOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

#10539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIRED BY OSV VENDOR WORK REC AND 8130-3 ON FILE P/O # S982-631-7939

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
643-1179	3876166-1		DASH NO ON	MFG SER NO / UTSO

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
	X											DATE SERVICEABLE		QUANTITY	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		V539/62697	P	APU	8/19/13	SFOPB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY.

STORES ISSUE

JUL 31 2013

SIGNATURE (OR STAMP) & FILE NO.

NEW PART 105539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA PO# 643-1179-0034 SK07

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

-MOVE, SHIP & STORE IN CONTAINER * DANGEROUS GOODS
RCS CONTROLLED PART HARD TIME UNIT-SERVICEABLE

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
621	9004 MR49305	CONTROL	DASH NO ON -128	MFG SER NO A2245 / UTSO G

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE
6334	X	6334	371TL									552	RB-	N M

DATE SERVICEABLE	QUANTITY
11 JUL 2013	1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		1539/62697	P	4W	5/19/13	STOR

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME
2 ☐ TROUBLE
3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

SIGNATURE (OR STAMP) & FILE NO.

E10539

REPORTABLE UNIT-MRDATA TRANSACTION REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1☐ YES 2☐ NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL? 5☐ YES 6☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE - OTHER SIDE OF TAG.

DISPOSITION 1☐ OVERHAULED 2☐ SERVICEABLE 3☐ TO VENDOR 4☐ SCRAPS/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO. _____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-9106	3616959-6	Fan Assy.	DASH NO ON	MFG. SER NO P-2098 / UTSO ∅

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
QC18617	X	QC18617										E74			

DATE SERVICEABLE 8/7/13 — QUANTITY 1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		1539 / 62697	P	APU	8/19/13	SFOPB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO. #105539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

UC18617
ON LOGGED ON
ON V539

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE. BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

N532 QC18617

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-3208	3844011-9	Stator Assy T2	DASH NO ON	MFG SER NO / UTSO: Ø

MAINT SHOPS	PS											HOME SHOP: E24	SHIP CONT	BATCHABLE	
QC18617	X	QC18617										DATE SERVICEABLE: 6-11-13		QUANTITY: 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV532 / 61646	P	APU	8/13/13	SFOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

#70539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-9205	3844040-5	STATOR ASY-T1	DASH NO ON —	MFG SER NO — / UTSO Ø

MAINT SHOPS	PS											552 HOME SHOP	SHIP CONT	BATCHABLE	R
059087	X	059087										DATE SERVICEABLE 7-11-13		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV532/61646	P	APU	8/13/13	SFOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

#105539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALT RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

~V532 DC18617

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF / DASH NO ON	SER NO IF NO DASH / MFG SER NO	UTSO
265-0491	3844053-2	Case Comb			d

MAINT SHOPS	PS	E74										E74 HOME SHOP	SHIP CONT	BATCHABLE	R
DC18617	X	DC18617										DATE SERVICEABLE 6-7-13		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE F SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV532/61646	P	APU	8/13/13	SFOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO. #105539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

NV532 QC18617

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-3356	3822077-4	Shaft tie	DASH NO ON	MFG SER NO:	UTSO: 0

MAINT SHOPS	PS											HOME SHOP: E74	SHIP CONT	BATCHABLE	R
QC18617	X	QC18617										DATE SERVICEABLE: 6-5-13		QUANTITY: 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV532 / 61646	P	APU	6/13/13	SFOPB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

#10539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL * 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

NV929 QC18617

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF / DASH NO ON	SER NO IF NO DASH / MFG SER NO	UTSO
265-0238	3844018-1	Stator Assy T3			ϕ

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
		E74										E24			
QC18617	X	QC18617										DATE SERVICEABLE 6-11-13		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV532/61646	P	APU	8/13/13	SFOPB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO

#105539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

APT RMVLS

SHOP FINDINGS.

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265 · 3144 ·	3844268-4	HEATSHIELD	DASH NO ON —	MFG SER NO — / UTSO Ø

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
	E74											532			
OC69087	X	OC69087										DATE SERVICEABLE 8 13 13		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV532 / 616446	P	APU	8/13/13	STOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

#10539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA _____

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-0321	3882426-1	PRIMARY FUEL MANIFOLD	DASH NO ON —	MFG SER NO — / UTSO 6

MAINT SHOPS	PS	551	HOME SHOP 551	SHIP CONT —	BATCHABLE N	R
	X		DATE SERVICEABLE 12 JUN 2013		QUANTITY 1 EA	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPECS & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE	POSITION	DATE	STA
		NK532/61646	P	APU	8/13/13	SFOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO. #105539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA _____

_____

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

RCS CONTROLLED PART

* DANGEROUS GOODS
HARD TIME UNIT-SERVICEABLE

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
071 0050	MR49410	EXCITER	DASH NO ON —	MFG SER NO 130679 / UTSO 0 G

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE
		551										551	000	N H
	X	371TL										DATE SERVICEABLE		QUANTITY
												OCT 11. 2013		1 EA

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NH532 / 01646	P	APU	5/13/13	STOR

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME
2 ☐ TROUBLE
3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

SIGNATURE (OR STAMP) & FILE NO. H10539

REPORTABLE UNIT-MRDATA TRANSACTION REQUIRED

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1☐ YES 2☐ NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL? 5☐ YES 6☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE - OTHER SIDE OF TAG.

DISPOSITION 1☐ OVERHAULED 2☐ SERVICEABLE 3☐ TO VENDOR 4☐ SCRAPS/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265·0449	3810211-3	Bell-INLET	DASH NO ON —	MFG SER NO —

| MAINT SHOPS | PS | | |

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION *1 ☐ OVERHAULED* *2 ☐ SERVICEABLE* *3 ☐ TO VENDOR* *4 ☐ SCRAP/SURPLUS*

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

IT - 6780
TC - 11739 QC18617
TCR - 13211

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-0223	3840022-4	wheel T3	DASH NO ON	MFG SER NO 07345021 90 / UTSO Ø

MAINT SHOPS	PS												HOME SHOP	SHIP CONT	BATCHABLE	R
QC18617	X	QC18617											E74			
													DATE SERVICEABLE 6-25-13		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPECS & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NW532/61646	P	APU	8/13/13	STOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME
2 ☐ TROUBLE
3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

#10539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY [illegible]
ON 11/532

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

5969700B620 QC18617

UNITED
I & R TAG

PCN	PART NO	NAME	DASHED NO OFF / DASH NO ON	SER NO IF NO DASH / MFG SER NO	UTSO
265-0210	3822068-1	impeller C2		03229 00940	ϕ

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
QC18617	X	QC18617										E74			
												DATE SERVICEABLE 7/31/13		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		1W532/61646	P	APU	8/13/13	SFOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME
2 ☐ TROUBLE
3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

#-10539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY QC7556A
ON NW532

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265·3289	3613827-1 AE	Bearing	DASH NO ON —	MFG SER NO F13-3272

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
0C539087	X	0C539087										852		~~UTBO~~ NEW	

DATE SERVICEABLE	QUANTITY
7.10.13	1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV532/616A6	P	APU	8/13/13	SFOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

10539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY [illegible]
ON AN532

ON LOGGED BY [illegible]
ON AN536

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-0462	3822099-1	Roller Brg.	DASH NO ON QC7387 ~~SN55-06235~~	MFG SER NO SN55-06235 UTBC NEW

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
QC7387	X	QC7387										E74			
												DATE SERVICEABLE 6/14/13		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (A/R CARRIER CALA014A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NW532/616146	P	APU	8/13/13	SFOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO. #105539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

FIN — 000323088 QC7387
S/O# — 8K2146 SO1 QC7387

ON LOGGED BY QC7564
ON NV532

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265·3206	3844078-4	VANE-T1 STATOR	DASH NO ON —	MFG SER NO 13-3-02331 ~~UTCO~~ NEW

MAINT SHOPS	PS	E74	HOME SHOP 552	SHIP CONT	BATCHABLE	R
QC69087	X	QC69087	DATE SERVICEABLE 7·1·13		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
			P	APU	07 09 13	SBOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

USED VANE TO BUILD T-1 STATOR ASSY. 3844040-5

SIGNATURE (OR STAMP) & FILE NO.

8007 103516

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

SN 13-150323-02331 QC69087

AE 4.804 QC69087

ON LOGGED BY QC75564

ON N/532

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-3099	331N02PRI1	fuel nozzle set 1	DASH NO ON	MFG SER NO UA00509349 / UTSO 0

MAINT SHOPS	PS	E74										E74 HOME SHOP	SHIP CONT	BATCHABLE	R
QC18617	X	QC18617										DATE SERVICEABLE 7/31/13		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		XV532/61646	P	APU	8/13/13	SFOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

#10539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

ON LOGGED BY [redacted]
ON 4/4/532

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-3097	3830051-5	Chamber Comb	DASH NO ON	MFG SER NO 4622285R / UTSO Ø

MAINT SHOPS	PS	E74	HOME SHOP	SHIP CONT	BATCHABLE	R
0C18617	X	0C18617	DATE SERVICEABLE 6-13-13		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPECS & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		AV5321616-46	P	APU	8/13/13	STOPB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

10539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY 0675564
ON HV532

REPAIR SHOP DATA - *(REQUIRED FOR MR UNITS)*

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

AFT RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-3098	331N02PRI1	Fuel Nozzle set 2	DASH NO ON	MFG SER NO: UA00509350

UTSO: Ø

MAINT SHOPS	PS											HOME SHOP: E74	SHIP CONT	BATCHABLE	R
QC18617	X	QC18617										DATE SERVICEABLE: 7/31/13		QUANTITY: 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV532/61646	P	APU	8/13/13	FOPB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

#105539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY QC15564
ON 11/532

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265·0590 ·	3822060-2 ·	Coupling	DASH NO ON —	MFG SER NO — UTSO 0

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
0030182	X	0030182										552			

DATE SERVICEABLE	QUANTITY
7·3·13	1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO.	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		FV535 / 62486		APU	8, 2, 13	SFOAB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO

113890 7870

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION. 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

1V535 QC18617

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF / DASH NO ON	SER NO IF NO DASH / MFG SER NO	UTSO
765-3012	3810231-21	IGV assy		UA00315683	0

MAINT SHOPS	PS												HOME SHOP	SHIP CONT	BATCHABLE	R
		E74	551										551			
QC18617	X	QC18617	7989										DATE SERVICEABLE 29 JUL 2013		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPECS & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		FV535 / 62486		APU	8 2 13	SFOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

113890 7870

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

ON LOGGED BY [illegible]
ON FV535

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265	0059-3822080-3	Impeller C/C	DASH NO ON —	MFG SER NO 0650109938

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
QC69087	X	QC69087										552		Ø	

DATE SERVICEABLE	QUANTITY
7.5.13	1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		FV535 / 62486		APU	8, 2, 13	SFOBB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

113890 7870

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

Lot 318716 QC69087

SN 0603501099 B QC69087

ON LOGGED BY QC7536A ON FV535

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265·1108	·3613927-1·	Bearing	DASH NO ON —	MFG SER NO 11-5-09739

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
		€74										552			
QC69087	X	QC69087										DATE SERVICEABLE 7·1·13		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		FV535/62486		APU	8 2 13	SFOBB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

113890 7870

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

SN 11-151725-09334 [redacted]

ON LOGGED BY [redacted]
ON FY535

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION. 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
2650462	3822099-1	Roller Brg.	DASH NO ON	MFG SER NO. 1355.06205 UTOC NEW

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
QC7387	X	QC7387										E74			
												DATE SERVICEABLE 6/17/13		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		FV535 / 62486		APU	8,2,13	SFOB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

113890 7870

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

FTN — 00032308 QC7387
W/O — 8K2146 001 QC7387

ON LOGGED BY QC7536
ON AV535

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-346	3810123-8	DGV Cover Assy	DASH NO ON	MFG SER NO / UTSO 0

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
QC7387	X	QC7387										E74		0	
												DATE SERVICEABLE		QUANTITY	
												7/10/13		1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO.	NHA CODE*	POSITION	DATE	STA
		1V535/62486		APU	6 26 13	0700

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

Installed Only

SIGNATURE (OR STAMP) & FILE NO.

7889 290 60

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA Lot # 313168 007387

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265.3147	3810224-12	IGV Hsng. Assy.	DASH NO ON	MFG SER NO / UTSC: 8

MAINT SHOPS	PS											HOME SHOP: E74	SHIP CONT	BATCHABLE: 8	R
QC7387	X	QC7387										DATE SERVICEABLE: 7/10/13		QUANTITY: 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER *CALA014A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128*

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		1V535/62486		AFJ	6/26/13	SFOPB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

Installed Only

SIGNATURE (OR STAMP) & FILE NO.

7989

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA — Lot # 313167 QC7387

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

NV537 [redacted]

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-0457	3822067-2	impeller C1	DASH NO ON	MFG SER NO 03651014911

UTSO: 0

MAINT SHOPS	PS		BAL	Lead								HOME SHOP	SHIP CONT	BATCHABLE
		E74	552	552								E74		
[redacted]	X	[redacted]	7926	371TL								DATE SERVICEABLE 7/18/13		QUANTITY 1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPECS & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	ETA
		NV532 / 61646	P	APU	8/13/13	8:00 PM

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO

#10539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

ON LOGGED BY [illegible]
ON NW532

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

NV532 QC18617 TT - 12035 TC - 12823 TLR - 7177 QC18617 LN 609739 QC18617

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-0224	3840019-1	Disk T1	DASH NO ON	MFG SER. NO. 013570390 7 / UTSO 0

MAINT SHOPS	PS	E24											E24 HOME SHOP	SHIP CONT	BATCHABLE	R
QC18617	X	QC18617											DATE SERVICEABLE 6-25-13		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
			P	APU	6,28,13	SFO PB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

Used disk to build T-1 Wheel Assy

SIGNATURE (OR STAMP) & FILE NO.

1926 050788

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY [illegible]
ON NV537

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF / DASH NO ON	SER NO IF NO DASH / MFG SER NO	UTSO
265	3183	7840002-5	T-1	WHEEL ASSY	

MAINT SHOPS	PS			HOME SHOP	SHIP CONT	BATCHABLE	C R
		552 BAL	552 lead	552	000	N	
FOPB	X	7925	371TL	DATE SERVICEABLE 28 JUN 2013		QUANTITY 1 EA	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV532 / 61646	P	APU	8/13/13	FOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

105539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

9152 TSN 15336 CSN 4664 REM.

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
2650222	3840007-1	T2 DISK	DASH NO ON	MFG SER NO 0350101589

UTSO 4

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
QC75564	X	QC75564										E74			

DATE SERVICEABLE 7/8/13 QUANTITY 1ea

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	*PLANE TSO*	*NHA PCN AND DASH NO*	*NHA CODE**	*POSITION*	*DATE*	*STA*
			P	APU	7.30.13	

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

used disk to build T-2 Wheel Assy

SIGNATURE (OR STAMP) & FILE NO.

7925 08078

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY OC7556
ON NV532

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS.

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF / DASH NO ON	SER NO IF NO DASH / MFG SER NO	UTSO
2-5	0221	384000A-1	T-2 WHEEL Assy		

MAINT SHOPS	PS			HOME SHOP	SHIP CONT	BATCHABLE	
		552 BAL 7926	552 Lead	552	000	N	B R
SFO PB	X		371TL	DATE SERVICEABLE 31 JUL. 2013		QUANTITY 1 EA.	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH *UNITED SPEC'S & CONFORM TO CURRENT FAR'S* WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV532/61646	P	APU	8/13/13	SFOPB

REMOVAL CODE SEE BACK OF *YELLOW STUB*

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE/OB STAMP & FILE NO

#10539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE. BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

E 4/23/15
2:55:32 PM

Index Form

Doc. Type:	CD
Tracking Number:	NP0982304
Activity Date:	10/28/10
Doc Number:	EON: V665
Ref Doc:	
Aircraft Number:	
MFG P/N:	
M&E :	
S/N:	2697
OP Step:	
Station:	
ATA Code:	
Fleet:	
Vendor Code:	
Package Type:	ESV
Package Date:	10/28/10
Comments:	APU-200
PREPPED BY :	RITA PAZ — YOUR NAME HERE
PREPPED DATE:	4/3/2015 — TODAY'S DATE

UAL ENGINE / APU ROM Index

Vendor Imaging Systems Control Sheet Version

Section	Item		Description
1	01	☑	Certification form for Scan
2	01	☐	Serviceable Engine & Module Tag
	02	☐	Engine I & R Tags
	03	☐	Module I & R Tags
	04	☐	Non Routine's
	05	☐	Engine Customer Maintenance Tags
	06	☐	Module Customer Maintenance Tags
3	01	☑	Engine Job Instruction Cards
4	01	☑	Module Job Instruction Cards

A	B	C	D	E	F	G
H	I	J	K	L	M	N
P	Q	R	S	T	U	V
W	X	Y				

5	01	☐	COA'S
6	01	☑	Engine Inspection & Condition Sheet, Miscellaneous Documents
	02	☐	Fulfillment Center ICS
7	01	☑	Module Inspection & Condition Sheet

A	B	C	D	E	F	G
H	I	J	K	L	M	N
P	Q	R	S	T	U	V
W	X	Y				

8	01	☑	AD Verification - Checklist
	02	☑	Unit Hard Limit Report
9	01	☑	Final Accountability and Test Cell JIC's
10	01	☑	D-199 (Records Certification)
	02	☐	8130 or ENGVST meter (Engine Certification)
11	01	☐	Customer Documents
12	01	☑	Removal Composition Report
	02	☑	Limit Planning Report
	03	☑	Installation Composition Report

UNITED

RECORDS OF MAINTENANCE

CERTIFICATION FORM

SFOMR/PA Certifies that the *Records of Maintenance* for:

Engine S/N 62697 Order NBR V665

Fleet APU Customer UA Vendor _____

Visit Type ESV Complete or Found As Is (*)and ready for storage and/or scanning (circle which one applies).

Signed Rita Paz
(SFOMR - Maintenance Records Specialist)

*Signed _____
(SFOMR - Maintenance Records Supervisor)

*Dual countersignature by supervisor is needed on this form when "found as is" is circled above.

Date 04-03-15

BOX #

MAYRA FLAHERTY
OCT 2 8 2010

PACKAGE CHECKLIST

Checklist for 331-200 (V)

EON: V665 **S/N**: 62697 **DATE** 10/28/10

JOB NUMBERS		COVER PAGE	CHECK
V0100.0	V665	BASE CHECK	
V0103.0	V	*** ENGINE TEST ***	FINAL
V1000 0	V665	ENGINE DISASSY/ASSY	
V2000.0	NV656	POWER SECTION	
V2005.0	SV	TURBINE SCAVENGE PUMP ASSY 8130	
V3000.0	AV665	ACCY GEARCASE STARTER CLUTCH ASSY	
V5000 0	PV665	OIL PUMP (Pump Assy Lube)	
V6000 0	FV654	LOAD COMPRESSOR	
V6005 0	IV654	IGV ASSY	
V8000 0	NV656	ENGINE BALANCE (Optional)	
V7000 0	LV	STARTER CLUTCH ASSY (Use if different from AV)	

COA	V665	☒ Scheduling Report / ☐ Job Card
COA	NV656	☒ Scheduling Report / ☐ Job Card
COA	AV665	☒ Scheduling Report / ☐ Job Card
COA	FV654	☒ Scheduling Report / ☐ Job Card

BAL ☐ 8130 / ☒ I&R / ☐ LIFE CARD	T1	3840019-1/265-0224 DISK ONLY 0235702427
BAL ☐ 8130 / ☒ I&R / ☐ LIFE CARD	T2	3840007-1/265-0222 DISK ONLY 0350101634
☐ 8130 / ☒ I&R / ☐ LIFE CARD	T3	3840022-4/265-0223 WHEEL ONLY 0234510215
BAL ☐ 8130 / ☒ I&R / ☐ LIFE CARD	IMPLR-C1	3822067-2/265-0457 9-501-2130
BAL ☐ 8130 / ☒ I&R / ☐ LIFE CARD	IMPLR-C2	3822068-1/265-0210 0-3501-896
☐ 8130 / ☒ I&R / ☐ LIFE CARD	IMPLR (FV)	3822080-3/265-0059 0365103273

V1522 0 Give to Inspection to make serviceable (S)
To show in ENGMOD/ENGRVW
For issuance of D199

NOTE TO MR AT 9 00AM

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, BASE CHECK

REV. 4/26/07

V665	62697	V0100.0
ORDER NO	ENGINE NO	JOB NO

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

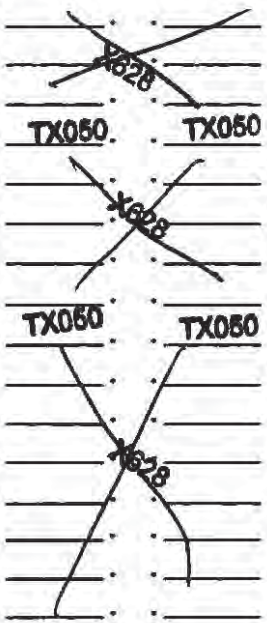
NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT



V0002.0	- NON-ROUTINE ACCOUNTABILITY
V0005.0	PARTS AS-RECVD INVENTORY- CUST/LEASE
V0010.0	MR UNIT/TAG ACCOUNTABILITY LIST
V0101.0	BASE CHECK - PRELIMINARY SERVICE
V0101.1	BASE CHECK - FINAL SERVICE
V0101.2	CSV - C CHECK
V0101.5	BASE CHECK - PRELIM. SERVICE-CUSTOMER
V0101.6	BASE CHECK - FINAL SERVICE-CUSTOMER
V0102.0	BASE CHECK INSPECTION
V0102.1	M.I.S. CLEAN UP

4

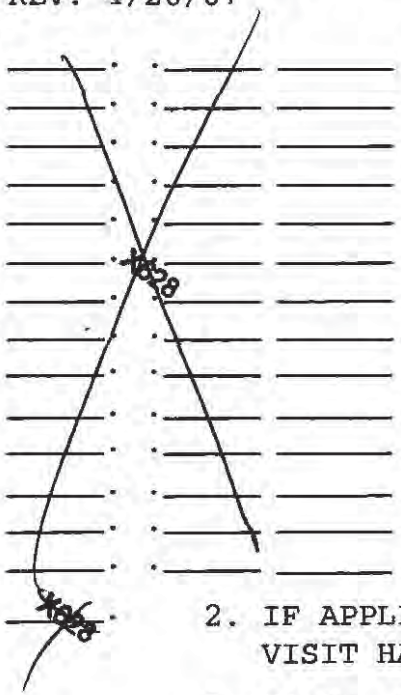
STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, BASE CHECK

REV. 4/26/07

V665	62697	V0100.0
ORDER NO	ENGINE NO	JOB NO



for no COA's X628

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

SIGNATURE: X628 DATE: 9/24/10

END JOB V0100.0 REVISED 4/26/07

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK - PRELIMINARY SERVICE

REV. 7/7/10

V665	62697	V0101.0
ORDER NO	ENGINE NO	JOB NO

NOTE - SET TORQUE WRENCH TO THE TORQUE VALUE SPECIFIED. IF NO TORQUE VALUE IS SPECIFIED, USE STANDARD TORQUE PER GN-8-0-2-14.

CAUTION - SCRAP ANY SELF LOCKING NUT WHICH CAN BE TURNED PAST ITS LOCKING FEATURE BY HAND.

WARNING - REMOVAL OF CHIP DETECTOR HOUSING WILL CAUSE OIL TO DRAIN FROM APU. HOT OIL CAN CAUSE BURNS. TAKE NECESSARY PRECAUTIONS.

M 7239 1. -----C CHECK REQUIRED ITEM----- REMOVE THE FOLLOWING AND CHECK FOR METAL. IF METAL FOUND NOTIFY INSPECTION AND REQUEST JIC V0102.1 FROM SCHEDULE CENTER. REMOVE INLET SCREEN, T-DUCT AND SURGE VALVE ELBOW FOR BOROSCOPE ACCESS. IF METAL NOT FOUND, PROCEED TO NEXT SIGNOFF.

A. GEARBOX MAGNETIC CHIP DETECTOR AND CHIP DETECTOR HOUSING.
METAL FOUND YES _____ NO 7239

B. GENERATOR MAGNETIC CHIP DETECTOR AND CHIP DETECTOR HOUSING.
METAL FOUND YES _____ NO 7239

EMAC 60 4927 004AA 1AC
EMAC 50 4927 004JA 1A
MRB 49-016 - 757
MRB 49-014 - 767

M 7239 2. -----C CHECK REQUIRED ITEM----- REMOVE THE FOLLOWING IF INSTALLED, AND CHECK FOR METAL. IF METAL FOUND, NOTIFY INSPECTION AND REQUEST JIC V0102.1 FROM SCHEDULE CENTER. IF METAL NOT FOUND, PROCEED TO NEXT SIGNOFF.

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK - PRELIMINARY SERVICE

REV. 7/7/10

V665	62697	V0101.0
ORDER NO.	ENGINE NO.	JOB NO

A. TURBINE MAGNETIC CHIP DETECTOR AND CHIP DETECTOR HOUSING.
METAL FOUND YES _____ NO 7239

B. COMPRESSOR MAGNETIC CHIP DETECTOR AND CHIP DETECTOR HOUSING.
METAL FOUND YES _____ NO 7239
EMAC 60 4927 004AE 1A
EMAC 50 4927 004JB 1A
MRB 49-063 - 757

MRB 49-059 - 767

M 7239 3. -----ENGINE SHOP VISIT REQUIRED ITEM-----
REMOVE MONOPOLE AND CHECK FOR METAL AND STRIKE. IF METAL OR STRIKE FOUND, NOTIFY INSPECTION AND REQUEST JIC V0102.1 FROM SCHEDULE CENTER.
IF NEITHER FOUND, PROCEED TO NEXT SIGN-OFF.

METAL FOUND YES _____ NO 7239
STRIKE YES _____ NO 7239

M 7239 4. -----C CHECK REQUIRED ITEM----- VISUALLY CHECK MAIN OIL FILTER DIFFERENTIAL PRESSURE INDICATOR AND RECORD FINDINGS. EXTENDED - YES _____ NO 7239
EMAC 60 4927 007AB 1AC
EMAC 50 4927 007JA 1A
MRB 49-023 - 757
MRB 49-022 - 767

1962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK - PRELIMINARY SERVICE

REV. 7/7/10

V665	62697	V0101.0
ORDER NO	ENGINE NO	JOB NO

M7239 5. -----C CHECK REQUIRED ITEM----- REMOVE OIL FILTER ELEMENT AND CHECK FOR CONTAMINATION OR DAMAGE. IF EITHER CONTAMINATION OR DAMAGE FOUND, NOTIFY INSPECTION. IF OIL FILTER ELEMENT OK, REINSTALL.

NOTE - O-RING MUST BE REPLACED REGARDLESS OF OIL FILTER ELEMENT CONDITION.

METAL FOUND YES _____ NO 7239

EMAC 60 4927 003AC 4A
EMAC 50 4927 003GA 3A
MRB 49-024 - 757
MRB 49-023 - 767
MRB 49-025 - 767

M 7239 6. -----C CHECK REQUIRED ITEM----- VISUALLY CHECK GENERATOR FILTER DIFFERENTIAL PRESSURE INDICATOR AND RECORD FINDINGS. EXTENDED - YES_____ NO 7239

EMAC 60 4927 015JF 1AC
EMAC 50 4927 003JB 1A
MRB 49-025 - 757
MRB 49-024 - 767

M 7239 7. -----ALL SHOP VISIT REQUIRED ITEM-----REMOVE GENERATOR OIL SCAVENGE FILTER AND CHECK FOR METAL. IF METAL FOUND NOTIFY INSPECTION AND REQUEST JIC V0102.1 FROM SCHEDULE CENTER. IF METAL NOT FOUND, REINSTALL OLD FILTER AND PROCEED TO NEXT SIGN-OFF.

METAL FOUND YES _____ NO 7239

EMAC 60 4927 003AI 4A
EMAC 50 4927 003GA 3A
MRB 49-024 - 757
MRB 49-0F 26 767

1962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

_____.

8. BEFORE CONTINUING WITH BASE CHECK SERVICE, CONTACT PLANNING CONTROL CENTER FOR SCHEDULING OF BASE CHECK INSPECTION JIC V0102.0.

I366 I

9. IF ENGINE TO BE COMPLETELY DISASSEMBLED, AND ALL MODULES TO BE ROUTED FOR DISASSEMBLY, NO FURTHER INSPECTION SIGN-OFFS REQUIRED, THEN PROCEED TO STEP 11.

X I I366

10. VISUALLY INSPECT ALL DRIVEN COMPRESSOR IMPELLER BLADES FOR DAMAGE AND/OR IRREGULARITIES, INCLUDING LEADING AND TRAILING EDGE WITH BOROSCOPE. ALSO VISUALLY INSPECT POWER SECTION C1 IMPELLER BLADES FOR DAMAGE AND IRREGULARITIES.

NOTE - NOTIFY SFOEP APU ENGINEERING IF DAMAGE FOUND.

DAMAGE FOUND YES_____ NO_____

M7239

11. -----ALL SHOP VISIT REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 1000 HOURS, REMOVE GENERATOR DIFFERENTIAL PRESSURE SWITCH AND ROUTE TO HOME SHOP.

ROUTED: YES_____ NO 7239
EMAC 50 4927 000JC ASV
EMAC 60 4990 009 ASV
MRB 49-051 - 767

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

M7239 12. -----C CHECK REQUIRED ITEM----- VISUALLY CHECK FUEL FILTER DIFFERENTIAL PRESSURE INDICATOR AND RECORD FINDINGS.

EXTENDED - YES _____ NO 7239

IF INDICATOR EXTENDED, CHANGE FILTER AND RESET INDICATOR.

EMAC 60 4931 010AB 1AC
EMAC 50 4931 004JA 1A
MRB 49-033 - 757
MRB 49-032 - 767

M 7239 13. -----ENGINE SHOP VISIT REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 2000 HRS, THEN REMOVE FLOW SENSING MODULE AND ROUTE TO HOME SHOP.

ROUTED: YES_____ NO 7239

NOTE - IF COA Y95591 HAS NOT BEEN ACCOMPLISHED, ROUTE FLOW SENSE MODULE REGARDLESS OF TIME.

EMAC 60 4953 001 ASV

M 7239 14. DISCONNECT PNEUMATIC LINES FROM ALL COMPONENTS THEN BLOW OUT LINES USING SHOP AIR.

M 7239 15. -----ALL SHOP VISIT REQUIRED ITEM-----
REMOVE PNEUMATIC LINE AND ELBOW FITTING FROM COMPRESSOR INLET PRESSURE SENSOR. BLOW OUT LINE AND FITTING WITH SHOP AIR OR ULTRASONIC CLEAN. MAKE SURE PORT IN INLET PLENUM IS CLEAN WITHOUT DESTRUCTION.

TUBE CLEARED: YES 7239 NO_____

L962 LM 7239 16. -----ALL SHOP VISIT REQUIRED ITEM-----CHECK INLET GUIDE VANE LINKAGE WEAR AS FOLLOWS.

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

331-200 BASE CHECK - PRELIMINARY SERVICE

REV. 7/7/10

V665	62697	V0101.0
ORDER NO	ENGINE NO	JOB NO

A. REMOVE IGVA COVER. VISUALLY CHECK FOR WEAR ON TRUNNION BUSHING. VISABLE WEAR IS CAUSE FOR TRUNNION BUSHING REPLACEMENT.

TRUNNION BUSHING REPLACED YES_____ NO_____

B. REMOVE BOLT ATTACHING BELLCRANK TO LINKAGE ROD END. CHECK FOR WEAR IN BELLCRANK AND FOR DAMAGE OR WEAR TO FORKS. SIDE PLAY AT BELLCRANK PIVOT POINT IS CAUSE FOR BELLCRANK REPLACEMENT. IF BELLCRANK IS REPLACED, REPLACE TRUNNION BUSHING REGARDLESS OF CONDITION.

BELLCRANK REPLACED YES_____ NO_____

NOTE - BELLCRANK PIVOT POINT WEAR HAS BEEN NOTED. ANY PLAY IN BELLCRANK INDICATES PIVOT POINT BEARING WEAR.

C. CHECK TRUNNION BLOCK FOR LOOSENESS WHERE TRUNNION ATTACHES TO BELLCRANK. AXIAL FREEPLAY OF BELLCRANK TO TRUNNION IN EXCESS OF 0.020 INCH IS CAUSE FOR TRUNNION BUSHING REPLACEMENT. IF BELLCRANK IS REPLACED, REPLACE BUSHING REGARDLESS OF CONDITION.
CHECK TRUNNION BLOCK FOR DAMAGE AND REPLACE IF DAMAGED.

TRUNNION BLOCK REPLACED YES_____ NO_____

D. CHECK FOR FREEPLAY IN IGV LINKAGE AND FOR AXIAL PLAY IN ROD ENDS BY MOVING ROD IN AND OUT. AXIAL PLAY UP TO 0.080 INCH WITH NO VISUAL MOVEMENT IN VANES IS ACCEPTABLE.

NOTE - EXCESS FORCE SHOULD NOT BE APPLIED TO OPEN AND CLOSE INLET GUIDE VANES. SIDE PLAY CAUSED BY ROD END BEARING IS NORMAL.

E. REPLACE WORN EXTERNAL PARTS AND REINSTALL IN ACCORDANCE WITH SHOP PROCEDURE 49-25-01/SP AND/OR 49-10-01/SP.

EMAC 60 4952 099AA 2A1C

M 7239 17. -----ALL SHOP VISIT REQUIRED ITEM-----
CHECK PRESSURE RELIEF VALVE COMBUSTOR DRAIN.
REMOVE DRAIN TUBE AND PRESSURE VALVE. CHECK TO SEE IF VALVE CLOSES BETWEEN 10 - 15 PSIG. REPLACE VALVE IF OUT OF LIMIT ON CLOSING PRESSURE.
CAP VALVE IF NOT REINSTALLED.

ACTUAL PSI: 13
VALVE REPLACED YES_____ NO 7239

EMAC 50 4916 001JA ASV
MRB 49-014 - 757

M 7239 18. CHECK LRU CLUTCH FOR FREE ROTATION IN CLOCKWISE DIRECTION AND FOR SLIPPAGE OR BINDING IN COUNTER CLOCKWISE DIRECTION. REPLACE IF ANY SLIPPAGE OR BINDING FOUND.

REPLACED: YES_____ NO 7239

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK - PRELIMINARY SERVICE

REV. 7/7/10

V665	62697	V0101.0
ORDER NO	ENGINE NO	JOB NO

M 7239 19. -----ESV REQUIRED ITEM-----
IF TSLV IS EQUAL TO OR GREATER THAN 2000 HRS TSLSV REMOVE STARTER MOTOR AND ROUTE TO HOME SHOP.

ROUTED: YES_____ NO 7239

NOTE - IF STARTER MOTOR IS P/N 519858-6, ROUTE TO HOME SHOP REGARDLESS OF TIME.

EMAC 50 49 41 001 ESV
EMAC 60 49 41 001JA E

M 7239 20. -----ALL SHOP VISIT REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 1000 HRS THEN REMOVE GEARBOX PRESSURE REGULATING VALVE AND ROUTE. REMOVE GEARBOX REGULATING VALVE ADAPTER AND ROUTE ON ENGINE CART FOR INSPECTION OR CLEANING PER GN 4-0-3-20.

ROUTED: YES_____ NO 7239

EMAC 60 4927 012AG ASV
EMAC 50 4927 012JB ASV
MRB 49-030 - 757
MRB 49-029 - 767

M 7239 21. REMOVE THE IGNITION LEAD AND PLACE ON CART FOR INSPECTION (EID/REPAIR).

M 7239 22. -----ALL SHOP VISIT REQUIRED ITEM----- REMOVE IGNITOR PLUG AND ADAPTER AND DISCARD PLUG AND GASKETS REGARDLESS OF CONDITION. NOTE CONDITION OF REMOVED PLUG BY STAMPING A OR BELOW BELOW:

9962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

A. THE DISTANCE BETWEEN EDGE OF ELECTRODE AND INSIDE OF UNERODED EDGE OF GROUND SHELL TIP IS LESS THAN 0.090 INCH. UNIFORM EROSIION OF ELECTRODE AND OUTER SHELL IS ACCEPTABLE. NO CRACKS OR CHIPPED AREA ON CERAMIC INSULATOR.

7239 B. DISTANCE BETWEEN EDGE OF ELECTRODE AND INSIDE OF UNERODED EDGE OF GROUND SHELL TIP IS GREATER THAN 0.090 INCH. ANY CRACK OR CHIPS ON INSULATION AREA.
ELECTRICAL CONNECTOR PIN BURNED OR BENT.
ANY BROKEN OR MISSING PARTS.
SCRAP PLUG LOCALLY.

EMAC 60 4941 002AA 3A1C

-----ESV REQUIRED ITEM----

M 7239 23. IT TSLV IS GREATER THAN OR EQUAL TO 2000 APU HOURS, THEN REMOVE EXCITER UNIT AND ROUTE TO HOME SHOP.

ROUTED: YES_____ NO 7239

M 7239 24. -----ESV REQUIRED ITEM----- PERFORM HEAT CHECK OF THERMOCOUPLE HARNESS AND RECORD FINDINGS.

LEFT SIDE OPERATIVE - YES 7239 NO_____
RIGHT SIDE OPERATIVE - YES 7239 NO_____

CONNECT EGT GAGE TO THERMOCOUPLE HARNESS, P2 PLUG, PINS 10 AND 24 FOR #1 PAIR AND PINS 11 AND 25 FOR #2 PAIR. USING PORTABLE BOTTLE GAS APPLY LOCALIZED HEAT, 1200 F (650 C) MAXIMUM TO EACH PROBE ONE AT A TIME. EGT GAGE SHOULD RESPOND FOR EACH PROBE. IF ANY PROBE DOES NOT RESPOND TO HEAT CHECK, REPLACE PROBE.

M 7239 25. -----ESV C CHECK REQUIRED ITEM------
CIRCLE AND ACCOMPLISH A OR B BELOW:

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

A. IF TIME SINCE HARNESS INSTALLATION IS GREATER THAN 4 YEARS OR NO DATE TAG, ROUTE HARNESS TO HOME SHOP.

EMAC 60 4914 000AA

7239 B. IF TIME SINCE HARNESS INSTALLATION IS LESS THAN 4 YEARS, CHECK WIRING INSULATION FOR BREAKS OR ABRASIONS AND REPAIR AS NEEDED.
VISUALLY CHECK ALL MAIN HARNESS CONNECTOR SOCKETS FOR EVIDENCE OF ARCING. REPLACE SOCKETS AS NEEDED. (THIS CHECK IS NOT REQUIRED FOR EGT HARNESSES). IF SBV OR LCV CONNECTORS ARE OLD STYLE WITH CERAMIC INSULATOR, CUT OFF AND DISCARD. IF ELECTRICAL SYSTEM FAILS FUNCTIONAL CHECK, ROUTE HARNESS TO HOME SHOP.

EMAC 60 4910 002FC ESV
EMAC 50 4914 000AB ESV

M 7239 26. IF COOLING AIR SHUTOFF VALVE IS PRESENT, NOTIFY SFOEP APU ENGINEERING. REMOVE COOLING AIR SHUTOFF VALVE AND ROUTE TO HOME SHOP. INDICATE BELOW IF VALVE IS INSTALLED:

____ A. COOLING AIR SHUTOFF VALVE INSTALLED.

7239 B. COOLING AIR SHUTOFF VALVE NOT INSTALLED.

NOTE - IF COA Y91710 OR M94260 HAS BEEN ACCOMPLISHED, COOLING FAN SHUT-OFF VALVE HAS BEEN DELETED AND NO ACTION IS REQUIRED.

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK - PRELIMINARY SERVICE

REV. 7/7/10

V665	62697	V0101.0
ORDER NO	ENGINE NO	JOB NO

M 7239 27. -----ESV REQUIRED ITEM-----
IF TSLV IS GREATER THAN 3000 APU HOURS,
REMOVE THE LOW OIL TEMPERATURE SWITCH AND ROUTE
TO HOME SHOP.

ROUTED: YES_____ NO 7239

EMAC 60 4927 014JD ESV
EMAC 50 4927 014JA ESV

M 7239 28. -----ALL SHOP VISIT REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 1000 HRS, THEN
ROUTE GEARBOX SHUTOFF VALVE TO HOME SHOP.

ROUTED: YES_____ NO 7239

M 7239 29. -----ALL SHOP VISIT REQUIRED ITEM-----
IF TSLV IS EQUAL TO OR GREATER THAN 3000 HOURS, REMOVE
SHUTTLE VALVE. DISASSEMBLE VALVE, CLEAN, REPLACE
SEALS, AND REASSEMBLE.

ROUTED: YES_____ NO 7239

L962 LM 7239 30. -----ALL SHOP VISIT REQUIRED ITEM-----
ACCOMPLISH THE FOLLOWING AND CIRCLE A OR B BELOW:

7239 A. COOLING FAN IS NOT LEAKING OIL. PROCEED TO
SIGN-OFF 31.

B. COOLING FAN IS LEAKING OIL.
ROUTE COOLING FAN FOR REPAIR.

FAN ROUTED: YES_____ NO 7239

M 7239 31. -----ESV REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 3000 HOURS
REMOVE FLOW DIVIDER VALVE ASSEMBLY AND ROUTE FOR BENCH
TEST OR REPAIR.

ROUTED: YES_____ NO 7239

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK - PRELIMINARY SERVICE

REV. 7/7/10

V665	62697	V0101.0
ORDER NO	ENGINE NO	JOB NO

M 7239 32. -----C CHECK REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 1000 HOURS
ROUTE OIL COOLER TO HOME SHOP.
ROUTED: YES_____ NO 7239

M 7239 33. -----ALL SHOP VISIT REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 1800 HOURS,
REMOVE SURGE CONTROL VALVE AND ROUTE TO HOME SHOP.
ROUTED: YES_____ NO 7239

M 7239 34. -----ALL SHOP VISIT REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 1000 HOURS,
REMOVE LOW OIL PRESSURE SWITCH AND ROUTE TO HOME SHOP.
ROUTED: YES_____ NO 7239

M 7239 35. -----ESV REQUIRED ITEM----
IF TSLV IS GREATER THAN OR EQUAL TO 3000 APU HRS,
REMOVE THE FUEL CONTROL FOR BENCH TEST.
ROUTED: YES_____ NO 7239

M 7239 36. -----C CHECK REQUIRED ITEM-----
IF TSLV IS GREATER THAN OR EQUAL TO 3000 APU HRS,
REMOVE THE COMPRESSOR INLET PRESSURE SENSOR (P2)
AND ROUTE TO HOME SHOP.
ROUTED: YES_____ NO 7239
EMAC 60 4961 004JA 1C
EMAC 50 4961 004JA 1C

M 7239 37. -----ALL SHOP VISIT REQUIRED ITEM-----
IF TSLV IS GREATER OR EQUAL TO 3000 APU HOURS, REMOVE
DE-OILER SOLENOID AND ROUTE TO HOME SHOP.
ROUTED: YES_____ NO 7239

END JOB V0101.0 REVISED 7/7/10

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK INSPECTION

REV. 1/7/09

V665	62697	V0102.0
ORDER NO	ENGINE NO	JOB NO.

THE FOLLOWING ARE INSPECTED TO SATISFY "C" CHECKS AND BASE ENGINE CHECK REQUIREMENTS PER GTCP331 EID 49-10-01/I00 AND INTRODUCTION/POLICY SECTION IN BOOK "0". INITIATE NON-ROUTINE (SFR4129) AS REQUIRED AND/OR RE-REVIEW ENGINE TO ACCOMPLISH CORRECTIVE ACTION.

I366 I 1. REVIEW OPEN ELR ITEMS USING "ENGWRK" IN AMIS. STAMP A, B, OR C.

X I I366 A. CUSTOMER ENGINE. NOT APPLICABLE. PROCEED TO NEXT ITEM.

I366 I B. ELR ITEMS NOT PRESENT. PROCEED TO NEXT ITEM.

X I I366 C. TRANSFER "ELR" ITEMS TO NON ROUTINES AND LIST BELOW. ACCOMPLISH "ENDATA" TRANSACTION TO CLEAR ELR ITEMS.

ELR	NON ROUTINE	ELR	NON ROUTINE

I366 I 2. STAMP A OR B BELOW.

____ I A. ENGINE TO REMAIN IN STALL. PROCEED TO NEXT ITEM.

I366 I B. POWER SECTION TO BE COMPLETELY DISASSEMBLED. ALL MODULES TO BE ROUTED FOR DISASSEMBLY OR ROUTED WITH ENGINE EXTERNALS FOR MODULE INSPECTION. NO FURTHER SIGN-OFFS REQUIRED.

____I	3. VISUALLY INSPECT DRIVEN COMPRESSOR IMPELLER BLADES INCLUDING LEADING AND TRAILING EDGES FOR DAMAGE WITH BORESCOPE.
____I	4. VISUALLY INSPECT POWER SECTION C1 IMPELLER BLADES FOR DAMAGE AND IRREGULARITIES.
____I	5. VISUALLY CHECK INLET OF DRIVEN COMPRESSOR AND POWER SECTION FOR DAMAGE.
____I	6. VISUALLY INSPECT EXPOSED AREAS OF GEARBOX.
____I	7. VISUALLY INSPECT POWER SECTION INSULATION BLANKET AND HEAT SHIELD EXPOSED AREAS INCLUDING COMBUSTION CHAMBER CASE DUCT AREA.
____I	8. VISUALLY INSPECT GEARBOX MOUNTS.
____I	9. VISUALLY INSPECT FWD AND AFT MOUNT BRACKETS.
____I	10. VISUALLY INSPECT COOLING FAN AND SURGE VALVE DUCTING.
____I	11. VISUALLY INSPECT PLUMBING AND COMPONENTS. EMAC 60 4953 000AA 1C MRB 49-044 - 757 MRB 49-045 767
____I	12. VISUALLY INSPECT DRAIN LINES, DRAIN MAST AND CONNECTIONS.
____I	13. VISUALLY INSPECT FUEL SYSTEM PLUMBING AND COMPONENTS.
____I	14. VISUALLY INSPECT EXHAUST CASE AND MUFFLER.

V665	62697	V0102.0
ORDER NO	ENGINE NO	JOB NO

_____I 15. VISUALLY INSPECT ALL VISIBLE CLAMPS AND BRACKETS.

****

NON-ROUTINES ISSUED:

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK INSPECTION

REV. 1/7/09

V665	62697	V0102.0
ORDER NO	ENGINE NO	JOB NO.

END JOB V0102.0 REVISED 1/7/09

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, ENGINE DISASSY/ASSY

REV. 4/26/07

V665	62697	V1000.0
ORDER NO	ENGINE NO	JOB NO

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

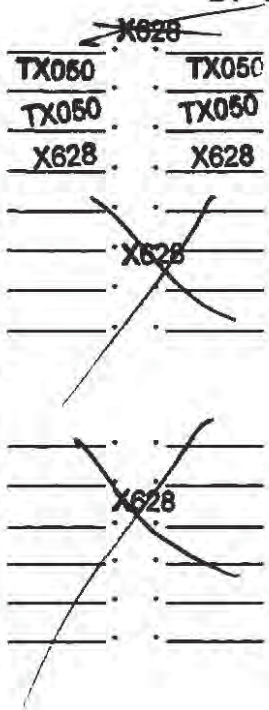
NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT



V0002.0	- NON-ROUTINE ACCOUNTABILITY
V1010.0	49-10-01ENGINE DISASSEMBLY
V1020.0	EXTERNAL PARTS - CLEANING
V1040.0	ENGINE ASSEMBLY - UAL
V1040.1	ENGINE ASSEMBLY- CUSTOMER
V1080.0	QEC REMOVAL
V1090.0	QEC INSTALLATION
V1090.1	QEC INSTALLATION - B757

NOTE - INCLUDE 60-49-10-01-02 ICS - V EXTERNALS WITH LOG PACKAGE.

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, ENGINE DISASSY/ASSY

REV. 4/26/07

V665	62697	V1000.0
ORDER NO	ENGINE NO.	JOB NO

X628

X628

2 NO COA'S X628

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

SIGNATURE: X628 DATE: 10/28/00

END JOB V1000.0 REVISED 4/26/07

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Item # 1, 8 to 14
not required 7239

Job Instruction Card

331-200 49-10-01ENGINE DISASSEMBLY

REV. 6/15/00

V665	62697	V1010.0
ORDER NO	ENGINE NO.	JOB NO.

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-10-01.

7239	M X	1. REMOVE GENERATOR.
	M 7239	2. REMOVE SURGE VALVE AND DUCTS.
	M 7239	3. REMOVE COOLING FAN DUCTS.
	M 7239	4. REMOVE OIL COOLER.
	M 7239	5. DISCONNECT AND REMOVE ELECTRICAL HARNESS.
	M 7239	6. REMOVE ENGINE PLUMBING.
	M 7239	7. REMOVE BLEED AIR DUCT.
7239	M X	8. REMOVE COOLING FAN.
7239	M X	9. REMOVE STARTER.
7239	M X	10. REMOVE FUEL CONTROL.
7239	M X	11. REMOVE LUBE PUMP.
7239	M X	12. REMOVE GENERATOR SCAVENGE FILTER.
7239	M X	13. REMOVE GEARBOX ADAPTER, SOLENOID VALVE AND REGULATOR VALVE.
7239	M X	14. REMOVE MANUFACTURING ENGINE DATA PLATE.
	M 7239	15. REMOVE INLET PLENUM.
	M 7239	16. DISASSEMBLE UPPER INLET PLENUM.
	M 7239	17. REMOVE INLET SCREENS.
	M 7239	18. REMOVE GEARBOX.
	M 7239	19. REMOVE DRIVEN COMPRESSOR.

2962 L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-10-01ENGINE DISASSEMBLY

REV. 6/15/00

V665	62697	V1010.0
ORDER NO	ENGINE NO	JOB NO

END JOB V1010.0 REVISED 6/15/00

1962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 EXTERNAL PARTS - CLEANING

REV. 6/3/03 U012

U012

V665	62697	V1020.0
ORDER NO.	ENGINE NO	JOB NO

1. U_____ UTILITY MECHANIC (U) CLEAN EXTERNAL COMPONENT PARTS PER GN 4-0-3-20 PROCESS 01 (SOLVENT CLEAN), AND/OR GN 4-0-3-20 PROCESS 2C.

   A. OIL LINES, DUCT ASSEMBLIES, OIL FITTINGS AND TUBES. WASH EXTERIOR AND INJECT SOLVENT INTO INTERIOR PASSAGES. ASSURE ALL PASSAGES ARE NOT OBSTRUCTED AND FREE OF DEPOSITS

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 EXTERNAL PARTS - CLEANING

REV. 6/3/03

V665	62697	V1020.0
ORDER NO	ENGINE NO	JOB NO

END JOB V1020.0 REVISED 6/3/03

6962L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Item # 8, 9, 10, 12, 13, 14, 15 previously accomplished 7239

Job Instruction Card

331-200 ENGINE ASSEMBLY - UAL

REV. 9/15/09

V665	62697	V1040.0
ORDER NO	ENGINE NO	JOB NO

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-10-01/SP01.

L962 LM 7393 1. INSTALL DRIVEN COMPRESSOR.

M 7393 2. INSTALL INLET SCREENS.

L962 LM 7393 3. INSTALL GEARBOX.

M 7393 4. PREASSEMBLE UPPER INLET PLENUM.

M 7393 5. INSTALL INLET PLENUM.

M 7393 6. INSTALL MANUFACTURING ENGINE DATA PLATE

M 7393 7. INSTALL MONOPOLES.

7239 M X 8. INSTALL GENERATOR SCAVENGE FILTER AND GENERATOR DELTA P SWITCH.

7239 M X 9. INSTALL GEARBOX ADAPTER, DE-OIL SOLENOID VALVE AND REGULATOR VALVE (ETOPS CONFIGURATION).

7239 M X 10. INSTALL LUBE PUMP DE-OIL TUBE AND FUEL CONTROL. (ETOPS CONFIGURATION)

M 7239 11. DO NOT CLAMP FUEL LINE TO BRACKET BETWEEN FUEL CONTROL AND FLOW DIVIDER VALVE.

7239 M X 12. INSTALL MAIN OIL FILTER ELEMENT.

7239 M X 13. INSTALL LRU CLUTCH ASSEMBLY.

M 7393 14. INSTALL OIL COOLER.

7239 M X 15. INSTALL STARTER. (ETOPS CONFIGURATION)

7239 M X 16. INSTALL COOLING FAN.

DUPLICATE SIGNOFF V0101.1

DUPLICATE SIGNOFF V0101.2

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Item # 17, 19, 21, 24, 26, 27 29, 32 previously Accompl. 7239

Job Instruction Card

331-200 ENGINE ASSEMBLY - UAL

REV. 9/15/09

V665	62697	V1040.0
ORDER NO	ENGINE NO	JOB NO.

7239 M X 17. INSTALL FLOW DIVIDER VALVE.

M 7239 18. INSTALL BLEED AIR DUCT.

7239 M X 19. INSTALL IGV ACTUATOR.

M 7239 20. INSTALL SURGE CONTROL VALVE.

7239 M X 21. INSTALL COMBUSTOR DRAIN PRESSURE RELIEF VALVE.

M 7239 22. INSTALL ENGINE PLUMBING.

M 7239 23. INSTALL FLOW SENSING MODULE.
CHECK FLOW SENSE MODULE AND INDICATE A OR B BELOW.

7239 A. ADJUSTABLE

____ B. NON-ADJUSTABLE

7239 M X 24. INSTALL COMPRESSOR INLET PRESSURE SENSOR (P2)

M 7239 25. INSTALL GEARBOX SHUTOFF VALVE.

7239 M X 26. INSTALL OIL LEVEL SWITCH.

7239 M X 27. INSTALL LOW OIL TEMPERATURE SWITCH.

M 7239 28. INSTALL ELECTRICAL HARNESS.
(VERIFY DATE TAG IS INSTALLED)

7239 M X 29. INSTALL OIL COOLER AND FLEX LINES COA 5-9104
(ETOPS CONFIGURATION).

M 7239 30. INSTALL COOLING FAN DUCTS.

M 7239 31. INSTALL SURGE VALVE DUCTS.

7239 M X 32. INSTALL GENERATOR

NOTE - LUBRICATE APU INPUT SPLINE SHAFT AND O-RINGS WITH GRE4505-1 (CMP 49-01-01).

551

6962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Item # 33, 34, 36, 38, 39, 40, 41 previously accomplished 7239

Job Instruction Card

331-200 ENGINE ASSEMBLY - UAL

REV. 9/15/09

V665	62697	V1040.0
ORDER NO.	ENGINE NO.	JOB NO.

7239M X 33. INSTALL LOP SWITCH. (ETOPS CONFIGURATION)

7239M X 34. INSTALL HOT SWITCH.

M 7239 35. INSTALL IGNITION EXCITER (ETOPS CONFIGURATION)

7239M X 36. INSTALL GENERATOR AND CONFIRM INSTALLATION OF 1 GENERATOR MAGNETIC CHIP DETECTORS (ETOPS CONFIGURATION).

M 7239 37. INSTALL IGNITION PLUG AND LEAD.

7239M X 38. INSTALL PRISMATIC OIL LEVEL SIGHT GAGE COA 6-9237.

7239 M X 39. INSTALL 331-200ER APU DATA PLATE (ETOPS CONFIGURATION) COA 5-9004.

7239M X 40. INSTALL FRONT ENGINE MOUNTS.

-------CONTINUOUS AIRWORTHINESS ITEM----------

CHECK SAFETY

7239M X 41. INSTALL OIL CAP AND ADAPTER ASSEMBLY COA 5-9110.

8962 LM 7239 42. FINAL ASSEMBLY VERIFICATION.

A. VISUALLY VERIFY ALL PLUMBING IS PROPERLY INSTALLED.

B. VISUALLY VERIFY ALL ELECTRICAL CONNECTORS ARE INSTALLED.

C. VISUALLY VERIFY INLET IS FREE OF F.O.D.

D. VERIFY PRESENCE AND CONDITION OF SAFETY WIRING.

E. VERIFY ENGINE ROTATES SMOOTHLY. LIMITED RUB OF SEALS IN POWER SECTION IS ACCEPTABLE.

8962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ENGINE ASSEMBLY - UAL

REV. 9/15/09

V665	62697	V1040.0
ORDER NO	ENGINE NO	JOB NO.

END JOB V1040.0 REVISED 9/15/09

L962 L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

UNITED AIRLINES

GTCP331-200ER APU Engine Manual - Inspection and Condition Sheet

ENGINE

60-49-10-01-02 ICS

DISTRIBUTION 551

ENGINE S/N: 62697 ORDER NO: V665

VADE NO _____ CUSTOMER. UA ENGINE TYPE: V

REASON FOR REMOVAL Turbine disk Life

COMMENTS _____

DISPOSITION CODES:		
	E =	MODULE MEETS EID REQUIREMENTS (ZERO TIME SINCE MODULE INSPECTION) PART MEETS DETAIL PART EID REQUIREMENTS (ZERO TIME SINCE DETAIL PART INSPECTION)
	A =	EXPOSED AREA OF PART MEETS VISUAL REQUIREMENTS OF APPROPRIATE EID (CONTINUED TIME SINCE DETAIL PARTS INSPECTION)
	C =	ROUTED OR CORRECTIVE ACTION TAKEN
	ATA# S/L-SEQ	EID NUMBER [49 precedes numbers shown (49) 31 -XX] SECTION / LIST - SEQUENCE NUMBER
	OFF LOG FUNC#	STAMP TO INDICATE PART/MODULE OFF-LOG FUNCTION NUMBER

NOTE Sign off appropriate disposition code. More than one code may be signed.

NOTE Indicate condition of unserviceable parts regardless of disposition.

NOTE . To clear parts not exposed, draw a line through the complete entry and stamp in the left margin

NOTE . If part is routed on an R&R Tag, it is mandatory to stamp the applicable "E" or "A" Block and write "R&R" in the "C" Block Then complete the appropriate computer transaction.

NOTE Parts having no specific EID will be visually inspected per 60-49-00-00 Book "0", Introduction, Section 4, A4

Engine Inspection Guide:

I _____ (1) Convenience Shop Visit (CSV), Project Engine Visit (PEV) or Other Shop Visit (OTH). No parts and/or modules removed or exposed. No further sign-off required.

I I209A (2) Engine Shop Visit (ESV), Convenience Shop Visit (CSV), Project Engine Visit (PEV) or Other Shop Visit (OTH). Parts and/or modules were removed or exposed. Sign-off or void out the following items as required

Control Date: 20070429

ENGINE S/N 62697 ORDER NO: V665

E	A	C	ITEM NOMENCLATURE	ATA # S/L SEQ	OFFLOG FUNC #	ROUTING / CONDITION
I209A			CLAMP, V BAND 2 EA	10-00-02 50-070	XXX 5749	
I209A			CLAMP, V BAND	10-00-02 50-570	XXX 5575	
I209A			CLAMP, V BAND 2 EA	10-00-02 50-580	XXX 5776	
I209A			CLAMP, V BAND	10-00-02 50-590	XXX 5777	
I209A			PLENUM, LOWER	21-01-00 10-275	XXX 2280	
		I209A	PLENUM, UPPER	21-02-00 10-270	XXX 2279	552
I209A			SCREEN, INLET	21-03-00 10-255	XXX 5737	
I209A			COVER, MONOPOLE	21-04-00 50-140	XXX 5753	
I209A			COVER, MONOPOLE	21-04-00 50-260	XXX 5758	
I209A			COVER, ACCESS PORT	21-06-00 50-300	XXX 5761	
I209A			SHAFT, QUILL	26-22-00 18-105	XXX 5683	
I209A			SHAFT, QUILL	26-22-00 11-200	XXX 2246	
I209A			ADAPTER	27-03-00 50-010	XXX 2235	
I209A			TUBE, OIL COOLER LONG	27-11-00 50-610	XXX 14501	
I209A			TUBE, OIL COOLER SHORT	27-11-00 50-620	XXX 14502	
I209A			BRACKET, OIL COOLER	52-15-00 01-310	XXX 2266	
I209A			DUCT, TEE	53-00-01 50-030	XXX 2238	
I209A			DUCT, SURGE	53-00-01 50-060	XXX 5748	

ENGINE S/N: 62697 ORDER NO: V665

E	A	C	ITEM NOMENCLATURE	ATA # / S/L SEQ	OFFLOG / FUNC #	ROUTING / CONDITION
I209A			DUCT, ELBOW	53-00-01	XXX	
				50040	2249	
I209A			SENSOR, STATIC	53-18-00	XXX	
				50-600	11778	
I209A			BRACKETS	10-01-00	XXX	
				331 IPC		
I209A			TUBING	10-01-00	XXX	
				331-IPC		
I209A			HOSES	10-01-00	XXX	
				331-IPC		
	I209A		GENERATOR	10-01-00	XXX	
				331-IPC		
		I209A	MODULE, POWER SECTION	20-00-00		Routed
				XXX	N	
		I209A	MODULE, DRIVEN COMPRESSOR	25-00-00		Routed
				18-000	F	
	I209A		MODULE, GEARBOX	26-01-00		
				01-000	A	
	I209A		ASSEMBLY, COOLING FAN	52-01-00		
				03-000	5650 C	
		I209A	ASSEMBLY, TURBINE SCAVENGE PUMP	90-05-01	XXX	Routed
				55-010	5578 S	
	I209A		ASSEMBLY, LUBE OIL PUMP	90-01-01	XXX	
				41-000	5724 P	

I I209A (3) Check Inspection and Condition Sheet for completion.

1. Approving National Aviation Authority/Country	2	3. Form Tracking Number
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	**W115416**

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
REPAIR STATION NO IROR086L Fokker Aerinc Incorporated, 14560 Greeno Rd , Fairhope, AL 36532, United States	**S9887611599**

6 Item:	7 Description	8. Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch Number.	12 Status/Work
1	FLOW SENSING MODULE	3885081-1	N/A	1	SX5564A	REPAIRED

13. Remarks

REPAIRED IN ACCORDANCE WITH UNITED PUBLICATION # AC-60-49-54-01, REVISION DATED Mar-12-2010 FULL DETAILS OF WORK CARRIED OUT PER WORK ORDER NUMBER W115416 THE WORK WAS PERFORMED BY Roger Swire EMPLOYEE # R S55419

14. Certifies the items identified above were manufactured in conformity to:

- ☐ Approved design data are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13.

19 ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13 the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14 Code of Federal Regulations, part 43 and in respect to that work the items are approved for return to service

15. Authorized Signature:	16. Approval/Authorization No:	20 Authorized Signature	21. Approval/Certificate No
		James J Salter	IROR086L
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22 Name (Typed or printed)**	**23. Date (m/d/y)**
		James J Salter	Oct-18-2010

User/Installer Responsibilities

It is important to understand the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1. Approving National Aviation Authority/Country	2.	3. Form Tracking Number:
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	**86391-10**

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number
Repair Station# OA9R240X **AERO TECHNOLOGIES, LLC.** **2200 NW 84th Ave., Miami, Florida 33122, Fax 305/436-6064, 305/436-5464**	**86391 / S9826310696**

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	**VALVE**	**3289514-1**	**N/A**	**1**	**2319**	**OVERHAULED**

13. Remarks: **Work order # 86391 describing actual work performed is attached.**
Work performed has been completed IAW FAA approved data.
The Overhaul performed was accomplished IAW UA CMM AC-60-49-63-01 and authorized supplemental documents therein.
JD REV DATED 01/04/2005
Aero Technologies has verified that there are no outstanding and/or existing AD's on this unit.

Certifies that the work specified in block 12/13 was carried out in accordance with EASA PART 145 and with respect to that work the aircraft component is considered ready for release to service under EASA Approval Certificate Number 4199 and FAR PART 145 Air Agency Certificate number145.4199

14 Certifies the items identified above were manufactured in conformity to:	19. ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13
☐ Approved design data and are in condition for safe operation. ☐ Non-approved design data specified in Block 13.	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15. Authorized Signature	16. Approval/Authorization No.:	20. Authorized Signature: Scott Phillips	21 Approval/Certificate No.: **OA9R240X**
17. Name (Typed or Printed)	18. Date (m/d/y):	22. Name: (Typed or Printed) **SCOTT PHILLIPS**	23 Date (m/d/y): **Oct 7,2010**

User/Installer Responsibilities

It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an Airworthiness Authority different than the Airworthiness Authority of the country specified in block 1, it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the Airworthiness Authority of the country specified in block 1

Statements in block 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2. **AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number*
FAA/UNITED STATES		11796834-2733600-1-1

4. Organization Name and Address*		5. Work Order/Contract/Invoice Number
Unison Industries 7575 Baymeadows Way Jacksonville, FL 32256	REPAIR STATION FACILITY CERTIFICATION NO UILR299k	REPAIR NUMBER 95740 P O S9460858620

6 Item*	7 Description	8. Part Number:	9 Eligibility: *	10. Quantity:	11. Serial/Batch Number.	12 Status/Work.
1	EXCITER,IGNITION	10-617075-6 (3888058-5)	N/A	1	980218000364	OVERHAUI ED

13 Remarks

OVERHAULED TESTED AND INSPECTED PER CMM 49-41 09 REV 4 DTD MAR/31/2006

For European shipments Certifies that work specified in block 12/13 was carried out in accordance with EASA 145 and with respect to that work the aircraft component is considered ready for release to service under EASA Acceptance Certificate Number FASA 145 4976
For Canadian Shipments Certifies the work described in blocks 12/13 is released under the terms of the US - Canada Bilateral Aviation Safety Agreement
Details on file under W O number listed in block 5

14 Certifies the item identified above was manufactured in conformity to:	19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13
☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13.	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.
15. Authorized Signature: / 16. Approval Authorization No.:	20 Authorized Signature* Carroll W Roger / 21 Approval/Authorization No. UILR299k
17. Name (Typed or Printed): / 18. Date(m/d/y):	22. Name (Typed or Printed)* Roner, Carroll W / 23. Date(m/d/y): OCT/09/2010

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.
Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

UNITED

PSEN446A-1 UNITED AIRLINES ENGINE MAINTENANCE SYSTEM PAGE 1
09/07/10 COA SCHEDULING REPORT TIME: 08.03
COAS FOR ENTIRE ASSEMBLY REASON: REMOVAL REQUESTOR NAME: REMOVAL
WORK CENTER: 561 ORGANIZATION:

SERIAL NBR	ET	MT	NAME	PWR RTG	CUST
62697		V	APU331	200E	UA

ORDER NUMBER
V665

COA NUMBER	COA CAT	MODULE/ FUNC NBR	UNIT SERIAL	UNIT COA STATUS	ISS	COMP	COA TITLE	COMPLETION DATE
Y-9171-0	2		62697	COMPLETED			GTCP331-200 CLNG FAN VLV DELETION	04/14/04
Y-9559-1	2		62697	COMPLETED			GTCP331-200 FLOW SENSING MODULE PALLET	04/14/04
0-9127	1		62697	COMPLETED			757/767 APU PNEU MOD PLT STAND & UPGRD	04/14/04
5-9004	1		62697	COMPLETED			B757 331-APU INSTALL S/N DATA PLACARD	04/14/04
5-9089	4	00988	1963	COMPLETED			757/767 GTCP331 APU IGV BUSHING-UPGRADE	08/23/00
5-9110	1		62697	COMPLETED			757/767 331 APU OIL GAL AND ADAPTER AS	04/14/04
5-9127	2		62697	COMPLETED			GTCP331-200ER APU SCV SERPENTINE LINE	04/14/04
6-9207	1		62697	COMPLETED			B767/B757 APU OIL LEVEL SIGHT GAGE PLT	04/14/04

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, POWER SECTION

REV. 4/26/07

NV656	61590	V2000.0
ORDER NO	ENGINE NO	JOB NO.

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT

X628	V0002.0	- NON-ROUTINE ACCOUNTABILITY
X628 X628	V2010.0	49-20-02TURBINE GROUP REMOVAL
X628 X628	V2011.0	49-20-01COMPRESSOR/COMBUSTOR DISASSEMBLY
X628 X628	V2020.0	POWER SECTION - CLEANING
X628 X628	V2041.0	COMPRESSOR/COMBUSTOR ASSEMBLY
X628 X628	V2042.0	49-24-00TURBINE GROUP ASSEMBLY.
X628 X628	V2043.0	49-20-02TURBINE GROUP INSTALLATION
	V2043.5	49-20-02TURBINE BEARING REMOVAL & INSTALLATION
		NOTE - INCLUDE 60-49-20-00-00 ICS - POWER SECTION MODULE 'NV' WITH LOG PACKAGE.
X628		

Job Instruction Card

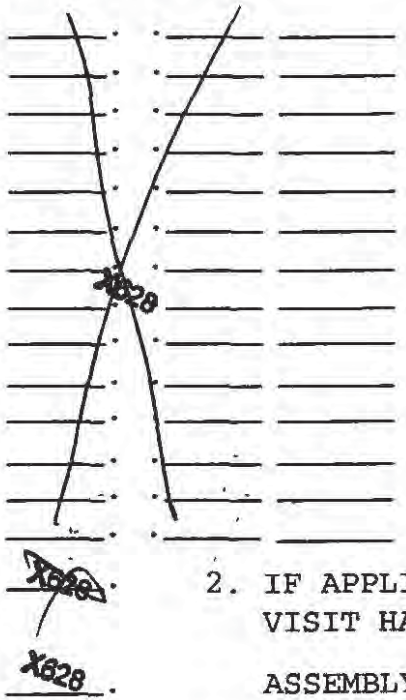
331-200 COVER PAGE, POWER SECTION

REV. 4/26/07

NV656	61590	V2000.0
ORDER NO	ENGINE NO	JOB NO

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

2 NO COA'S X628



2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

   ASSEMBLY S/N: P-126C X628

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

   SIGNATURE: X628 DATE: 10/22/10

END JOB V2000.0 REVISED 4/26/07

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-20-02TURBINE GROUP REMOVAL

REV. 3/11/99

NV656	61590	V2010.0
ORDER NO	ENGINE NO	JOB NO.

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-20-02.

M 7227 1. REMOVE FLOW DIVIDER/DRAIN VALVE.

M 7227 2. REMOVE EXCITER, IGNITOR PLUG AND THERMOCOUPLES. DISCARD GASKETS.

M 7227 3. REMOVE INSULATION BLANKETS.

M 7227 4. REMOVE EXHAUST HOUSING AND MUFFLER.

M 7227 5. REMOVE FUEL MANIFOLDS. REMOVE FUEL NOZZLES AND SHROUDS. DISCARD GASKETS.

M 7227 6. REMOVE HEATSHIELD AND SCAVENGE PUMP.

M 7227 7. STRETCH TIESHAFT.

M 7227 8. DISASSEMBLE TURBINE BEARING CAPSULE. DISCARD GASKET AND SPRING WASHER. BAG TURBINE BEARING INNER AND OUTER RACE TO PRECLUDE CLEANING.

M 7227 9. REMOVE AND DISASSEMBLE TURBINE GROUP

NOTE - DISCARD USED PISTON SEAL RINGS FROM T1 STATOR AND T1 STATOR SUPPORT.

X628. PLANNER TO ISSUE: JIC V2050.0, V2021.0 AND INSPECTION 60-49-90-05/SP01.

M 7227 10. IF ENGINE TSLV IS EQUAL TO OR GREATER THAN 3000 HOURS, OR IT HAS EXPERIENCED M.I.S, DISASSEMBLE TURBINE SCAVENGE PUMP PER SHOP PROCEDURE 331-49-24-01/SP01.

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-20-02TURBINE GROUP REMOVAL

REV. 3/11/99

NV656	61590	V2010.0
ORDER NO	ENGINE NO	JOB NO

END JOB V2010.0 REVISED 3/11/99

L962L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-20-01COMPRESSOR/COMBUSTOR DISASSEMBLY

REV. 11/22/85

NV656	61590	V2011.0
ORDER NO.	ENGINE NO.	JOB NO

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-20-01.

M 7227 1. REMOVE COMBUSTOR.

M 7393 2. REMOVE INLET HOUSING.

M 7393 3. DISASSEMBLE FIRST STAGE COMPRESSOR.

M 7393 4. DISASSEMBLE SECOND STAGE COMPRESSOR.

M 7393 5. DISASSEMBLE COMPRESSOR HOUSING.

M 7393 6. DISASSEMBLE INLET HOUSING.

M 7393 7. DISASSEMBLE BEARING INLET HOUSING.

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-20-01COMPRESSOR/COMBUSTOR DISASSEMBLY

REV. 11/22/85

NV656	61590	V2011.0
ORDER NO.	ENGINE NO	JOB NO

END JOB V2011.0 REVISED 11/22/85

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 POWER SECTION - CLEANING

REV. 4/27/01

NV656	61590	V2020.0
ORDER NO	ENGINE NO	JOB NO

1. U U012 UTILITY MECHANIC (U) CLEAN POWER SECTION PARTS PER GN 4-0-3-20 PROCESS 01 (SOLVENT CLEAN), AND/OR GN 4-0-3-20 PROCESS 2C.
2. U U012 UTILITY MECHANIC (U) PLASTIC PELLET BLAST THE THE FOLLOWING PARTS PER GN 4-0-0-6 PROCESS Q-09.

   A. COMBUSTION CHAMBER.

   B. COMBUSTION CHAMBER CASE.

   C. 1ST STAGE TURBINE STATOR SUPPORT.

   D. 1ST STAGE TURBINE STATOR ASSEMBLY.

   E. 1ST STAGE TURBINE SHROUD.

   F. 1ST STAGE TURBINE WHEEL ASSEMBLY.

   G. 2ND STAGE TURBINE STATOR ASSEMBLY.

   H. 2ND STAGE TURBINE STATOR SUPPORT.

   I. 2ND STAGE TURBINE WHEEL ASSEMBLY.

   J. 3RD STAGE TURBINE STATOR ASSEMBLY.

   K. 3RD STAGE TURBINE WHEEL ASSEMBLY.

   L. ROTOR SEAL CURVIC COUPLING.

   M. HEAT SHIELD.

   N. TIE SHAFT (INSIDE, SPLINED INSERT).

   O. TURBINE SCAVENGE PUMPQUILL SHAFT.

3. U U012 UTILITY MECHANIC (U) HEAVY DUTY CAUSTIC CLEAN - NO PHOSPHORIC ACID THE FOLLOWING PARTS PER GN 4-0-3-20 PROCESS 2A:

   A. COMPRESSOR COUPLING STUB-SHAFT.

551

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 POWER SECTION - CLEANING

REV. 4/27/01

NV656	61590	V2020.0
ORDER NO.	ENGINE NO.	JOB NO

B. SHIELD-OIL TUBES.

C. FUEL NOZZLE SHROUDS.

D. GEAR SHAFT - (TURBINE PUMP QUILLSHAFT).

E. TURBINE OIL TUBES.

F. OIL JETS AND SPACERS.

G. TURBINE BEARING SUPPORT.

H. CURVIC COUPLING SHAFT - (TURBINE END).

I. T-BOLTS AND BEARING RETAINER.

J. TAIL CONE-SPACERS PLUS BOLTS.

K. ALL METAL CLAMPS.

END JOB V2020.0 REVISED 4/27/01

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COMPRESSOR/COMBUSTOR ASSEMBLY

REV. 12/30/03

NV656	61590	V2041.0
ORDER NO	ENGINE NO	JOB NO.

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-20-01.

M 7393 1. INSTALL LABYRINTH SEAL ON COUPLING SHAFT.

M 7393 2. ASSEMBLE BEARING INLET HOUSING.

M 7393 3. ASSEMBLE SHROUD AND INLET HOUSING ASSEMBLY.

M 7393 4. DETERMINE FIRST STAGE COMPRESSOR ZERO FACE CLEARANCE DIMENSION.

RECORD DIMENSION A 0.907

M 7393 5. INSTALL BEARING INLET HOUSING ASSEMBLY.

L962 L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COMPRESSOR/COMBUSTOR ASSEMBLY

REV. 12/30/03

NV656	61590	V2041.0
ORDER NO	ENGINE NO	JOB NO

M 7393 6. DETERMINE SHIM REQUIREMENTS FOR SHROUD AND INLET HOUSING.

0.907 DIMENSION A (FROM ABOVE)

- 0.772 DIMENSION B

- 0.041 INCH

= 0.094 + OR - .001 INCH, REQUIRED SHIMS

****

* *

* 0.094 REQUIRED SHIMS *

* *

* - 0.094 ACTUAL SHIMS USED *

* *

* + .041 *

* *

* = 0.041 CALCULATED C1 IMPELLER CLEARANCE *

* *

****

M 7393 7. ASSEMBLE COMPRESSOR HOUSING.

M 7393 8. DETERMINE SECOND STAGE COMPRESSOR ZERO FACE CLEARANCE DIMENSION.

RECORD DIMENSION C 1.841

962 L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COMPRESSOR/COMBUSTOR ASSEMBLY

REV. 12/30/03

NV656	61590	V2041.0
ORDER NO	ENGINE NO	JOB NO

M 7393 9. DETERMINE SHIM REQUIREMENTS FOR INLET HOUSING AND COMPRESSOR HOUSING P/N 3826138-3 BY USING FORMULA BELOW:

1.841 DIMENSION C (FROM ABOVE)

- 1.745 DIMENSION D

- 0.040 INCH

= 0.056 + OR - .001 INCH, REQUIRED SHIMS

****

* *

* 0.056 REQUIRED SHIMS *

* *

* - 0.056 ACTUAL SHIMS USED *

* *

* + .040 *

* *

* = 0.040 CALCULATED C2 IMPELLER CLEARANCE *

* *

****

M 7393 10. INSTALL COMPRESSOR HOUSING ON MAINTENANCE STAND.

M 7393 11. ASSEMBLE COMPRESSOR AND DIFFUSER ASSEMBLY.

M 7393 12. INSTALL INLET HOUSING ASSEMBLY.

M 7393 13. INSTALL COMBUSTION CHAMBER AND COMBUSTION CHAMBER CASE.

-----CONTINUOUS AIRWORTHINESS ITEM -----

CHECK COMBUSTOR INSTALLATION.

L 0962

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COMPRESSOR/COMBUSTOR ASSEMBLY

REV. 12/30/03

NV656	61590	V2041.0
ORDER NO	ENGINE NO	JOB NO

END JOB V2041.0 REVISED 12/30/03

8962 L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-24-00TURBINE GROUP ASSEMBLY.

REV. 7/28/97

NV656	61590	V2042.0
ORDER NO	ENGINE NO	JOB NO

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-24-00.

1962 LM 7393 1. MARK FIRST, SECOND, AND THIRD STAGE TURBINE STATORS FOR ALIGNMENT DURING INSTALLATION. REFERENCE SHOP PROOCEDURE 49-24-00, PAGE 703, ITEM D, NOTE 1. INSTALL NEW REPLACEMENT SEAL RINGS.

M 7393 2. MEASURE FOR T1 SHROUD SHIMS, DIMENSIONS D.

0.002 "GAP" DIMENSION E
(AVERAGE OF BOLT HOLE LOCATIONS)
+ 0.025
= 0.027 DIMENSION D
(+/- 0.001 REQ'D T1 SHROUD SHIMS)

OR

_____ DIMENSION A
\- _____ DIMENSION B
= _____ DIMENSION C
0.025
\- _____ DIMENSION C
= _____ DIMENSION D
(+/- 0.001 REQ'D T1 SHROUD SHIMS)

M 7393 3. MEASURE FOR T2 STATOR SUPPORT SHIMS.

RECORD DIMENSION F 0.029

CAUTION - MEASURE FROM AREA AROUND BOLT HOLE FLANGE SURFACE.

1962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-24-00TURBINE GROUP ASSEMBLY.

REV. 7/28/97

NV656	61590	V2042.0
ORDER NO	ENGINE NO	JOB NO

M 7393 4. ASSEMBLE TURBINE GROUP.

0.027 DIMENSION D (ABOVE + OR - 0.001 INCH)
(ACTUAL T1 SHROUD SHIMS USED)

0.029 DIMENSION F (ABOVE + OR - 0.001 INCH)
(ACTUAL T2 STATOR SUPPORT SHIMS USED)

END JOB V2042.0 REVISED 7/28/97

8962
L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-20-02TURBINE GROUP INSTALLATION

REV. 9/18/09

NV656	61590	V2043.0
ORDER NO	ENGINE NO	JOB NO

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-20-02.

ASSIGNED ENGINER ORDER NUMBER V645 X628

M 7393 1. MEASURE FOR TURBINE GROUP SHIMS.

0.101 DIMENSION H

0.018 DIMENSION G

M 7393 2. ASSEMBLE TURBINE GROUP AND COMPONENTS TO DETERMINE SHIM REQUIREMENTS.

L962 LM 7393 3. ----- CONTINUOUS AIRWORTHINESS ITEM -----TURBINE TIESHAFT INSTALLATION - CHECK AND VERIFY STRETCH MEASUREMENT.

0.770 DIMENSION C (BEFORE STRETCH)

2.460 DIMENSION A

2.413 DIMENSION B

=0.047 STRETCH DIMENSION (LIMIT = 0.047 TO 0.050 INCH)

0.833 DIMENSION C (AFTER STRETCH)

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

M 7393 4. VERIFY TURBINE GROUP SHIM THICKNESS.

3.713 DIMENSION J

- 0.101 DIMENSION H (PREVIOUSLY RECORDED)

= 3.612

- 2.772 TOOLING DIMENSION

= 0.840 BUILD DIMENSION (0.840 TO 0.843 INCH)

M 7393 5. INSTALL TURBINE BEARING SUPPORT.

0.018 DIMENSION G (PREVIOUSLY RECORDED)
REQ'D. SHIMS (+ OR - 0.002 INCH)

0.853 DIMENSION C (AFTER STRETCH)

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-20-02TURBINE GROUP INSTALLATION

REV. 9/18/09

NV656	61590	V2043.0
ORDER NO	ENGINE NO.	JOB NO

M 7393 6. DETERMINE SHIM REQUIRED FOR TURBINE BEARING SUPPORT.

4.748 DIMENSION K

- 3.602 DIMENSION L

= 1.146 DIMENSION M

****

2.297 INCH

- 1.146 DIMENSION M (ABOVE)

= 1.151

- 1.027 DIMENSION N (+ OR - 0.001 INCH)

= 0.124 THICKNESS OF REQ'D SHIMS

M 7393 7. ASSEMBLE COMPONENTS ONTO COUPLING.

NOTE - USE NEW T-BOLTS FOR ASSEMBLY OF BEARING CAPSULE.

M 7393 8. INSTALL TURBINE BEARING SUPPORT.

0.833 DIMENSION C (AFTER STRETCH)

VERIFY SHAFT STRETCH IS WITHIN LIMITS.

M 7393 9. INSTALL QUILLSHAFT AND TURBINE SCAVENGE PUMP.

M 7393 10. RECORD SCAVENGE PUMP # SV NV656

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

ITEM #16. EXCITER NOT INSTALL YET 7393

#16 WILL BE INSTALL WHEN PART AVAILABLE 1962

Job Instruction Card

331-200 49-20-02TURBINE GROUP INSTALLATION

REV. 9/18/09

NV656	61590	V2043.0
ORDER NO	ENGINE NO	JOB NO

M 7393 11. INSTALL HEATSHIELD.

M 7393 12. INSTALL PRIMARY AND SECONDARY NOZZLE AND MANIFOLD ASSEMBLIES.

----- CONTINUOUS AIRWORTHINESS ITEM -----CHECK BOLT AND "B" NUT TORQUE OF PRIMARY AND SECONDARY NOZZLE AND MANIFOLD ASSEMBLIES.

SAFETY PRIMARY AND SECONDARY NOZZLE ASSEMBLIES.

----- CONTINUOUS AIRWORTHINESS ITEM -----CHECK SAFETY OF PRIMARY AND SECONDARY NOZZLE ASSEMBLIES.

M 7393 13. INSTALL EXHAUST MUFFLER AND HOUSING.

M 7393 14. INSTALL INSULATION BLANKETS.

M 7393 15. INSTALL TADPOLE SEAL.

1962 M ~~X~~ 16. INSTALL EXCITER, IGNITOR PLUG AND THERMOCOUPLES.

M 7393 17. INSTALL FLOW DIVIDER AND DRAIN VALVE.

END JOB V2043.0 REVISED 9/18/09

551

1962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

UNITED AIRLINES

GTCP331-200ER APU Engine Manual - Inspection and Condition Sheet

POWER SECTION MODULE
60-49-20-00-00 ICS

DISTRIBUTION: 551

ENGINE S/N: _____ VADE NO: _____ CUSTOMER: _____

MODULE ORDER NO: NV656 MODULE S/N: P-1266 MODULE: N

REASON FOR REMOVAL: _____

COMMENTS _____

DISPOSITION CODES	E =	PART MEETS DETAIL PART EID REQUIREMENTS (ZERO TIME SINCE DETAIL PART INSPECTION)
	A =	EXPOSED AREA OF PART MEETS VISUAL REQUIREMENTS OF APPROPRIATE EID (CONTINUED TIME SINCE DETAIL PARTS INSPECTION)
	C =	PART ROUTED OR CORRECTIVE ACTION TAKEN
	ATA# S/L-SEQ	EID NUMBER [49 precedes numbers shown (49) 31 -XX] SECTION / LIST - SEQUENCE NUMBER
	OFF LOG FUNC#	STAMP TO INDICATE PART OFF-LOG FROM MODULE FUNCTION NUMBER

NOTE : Sign off appropriate disposition code. More than one code may be signed.

NOTE : Indicate condition of unserviceable parts regardless of disposition

NOTE : To clear parts not exposed, draw a line through the complete entry and stamp in the left margin.

NOTE . If part is routed on an R&R Tag, it is mandatory to stamp the applicable "E" or "A" Block and write "R&R" in the "C" Block. Then complete the appropriate computer transaction.

NOTE : Parts having no specific EID will be visually inspected per 60-49-00-00 Book "0", Introduction, Section 4, A4.

Module Inspection Guide:

I _____ (1) Module inspected and found serviceable per EID 60-49-20-00-00 [ZERO Time Since Module Inspection (TSMI)] No parts removed from module. No additional sign-off required.

I I366 (2) Module partially or completely disassembled. Removed parts and / or exposed areas inspected per appropriate EID (ZERO Time Since Detail Parts Inspection - TSDPI).

Control Date: 20070329

ENGINE S/N: _____ ORDER NO: _____

E	A	C	ITEM NOMENCLATURE	ATA # / S/L SEQ	OFFLOG / FUNC #	ROUTING / CONDITION
		I366	BEARING, THRUST	20-01-01		Routed
				35-020	5719	
		I366	BEARING, ROLLER	20-01-01		rework
				35-040	5720	
		I366	CARBON SEAL	20-02-00	XXX	routed
				35-010	5718	
		I366	HOUSING, INLET	22-01-00	XXX	LOT 303794
				20-100	2240	
		I366	RETAINER, BRG	22-02-00	XXX	face worn
				12-150	5672	
I366			INSERT, SOUND ATTENUATOR	22-03-00	XXX	
				16-010	5676	
		I366	HOUSING ASSY, BEARING	22-04-00	XXX	Axial worn
				16-015	0999	
	I366		SEAL, COUPLING SHAFT	22-05-00	XXX	
				11-110	2242	
	I366		SHAFT, ENGINE COMPRESSOR	22-06-00	XXX	
				11-100	0998	
		I366	TIE SHAFT	22-07-00	XXX	Journals delam
				11-090	1012	
		I366	INLET BELL	22-08-00	XXX	delam
				16-130	2278	
I366			SHROUD, COMPRESSOR	22-09-00	XXX	
				16-140	2277	
		I366	IMPELLER, C1	22-10-00		LOT 303709
				11-030	0993	
I366			DIFFUSER ASSY, C1	22-11-00	XXX	
				16-120	0994	
		I366	HOUSING ASSY, COMPRESSOR	22-12-00	XXX	Volvk wh
				16-080	2252	
		I366	IMPELLER, C2	22-13-00		LOT 303710
				11-045	0995	
		I366	DIFFUSER, C2	22-14-00	XXX	LOT 303799
				16-100	0996	
I366			DESWIRL ASSY	22-15-00	XXX	
				16-020	0997	

ENGINE S/N: _____ ORDER NO: _____

E	A	C	ITEM NOMENCLATURE	ATA # S/L SEQ	OFFLOG FUNC #	ROUTING / CONDITION
		I366	LINER ASSY, COMB TRANSITION	22-16-00 16-030	XXX 1000	Studs Broken
		I366	LABYRINTH SEAL	22-17-00 16-040	XXX 2261	WORN
I366		I366	MOUNT, AFT 2EA	22-20-00 16-420	XXX 2257	Inc WO 303798
I366			SUPPORT, INLET HOUSING	22-20-00 16-400	XXX 5679	
		I366	ROTOR, SEAL	22-22-00 35-060	XXX 2256	RE WORK
I366			BRACKET, IGNITION UNIT	22-99-00 16-440	XXX 13350	
I366			BRACKET, FLOW DIVIDER	22-99-00 16-450	XXX 13351	
I366			HEATSHIELD, MOUNT	22-99-00 16-430	XXX 13335	
I366			HEATSHIELD, MOUNT 2 EA	22-99-00 16-460	XXX 13352	
I366			HEATSHIELD, FLOW DIVIDER	22-99-00 16-470	XXX 13353	
I366			HEATSHIELD, IGNITION UNIT	22-99-00 16-480	XXX 13354	
		I366	CHAMBER, COMBUSTION	23-01-00 20-010	XXX 1002	CRACKS
I366			RING, CONTAINMENT	23-02-00 20-030	XXX 2258	
		I366	CASE, COMBUSTION CHAMBER	23-04-00 20-020	 1001	Cut 303797
I366			RING, SPLIT	23-05-00 20-090	XXX 2259	
I366			COUPLING & SEAL	23-06-00 11-050	XXX 1097	
I366		I366	SHROUD, FUEL NOZZLE 12 EA	23-32-00 20-540	XXX 2234	Inc WORK
I366			RETAINER, FUEL NOZZLE 12 EA	23-33-00 20-550	XXX 14520	

ENGINE S/N: _____ ORDER NO: _____

E	A	C	ITEM NOMENCLATURE	ATA # / S/L SEQ	OFFLOG / FUNC #	ROUTING / CONDITION
			SUPPORT, T1 STATOR	24-01-00 30-020	XXX 2260	
		I363	PISTON RING	BOOK 0 31-220	XXX 13363	SCRAP 100%
		I366	STATOR ASSY, T1	24-02-00 31-010	XXX 2286	Lot 303707
		I363	STATOR VANE, T1	24-02-01 31-011	 1005	
		I363	SEAL, T1 RING	BOOK 0 31-013	XXX 13362	SCRAP 100%
		I366	WHEEL ASSY, T1	24-03-00 30-031	XXX 5710	Digs
		I366	DISK, T1	24-03-01 30-030	 1004	Lot 303702
		I363	BLADES, T1	24-03-02 32-170	XXX 1003	Burned
			SHROUD, T1	24-04-00 31-080	XXX 2262	
		I363	STATOR ASSY, T2	24-05-00 31-060	XXX 2281	Lot 303706
		I363	STATOR VANE, T2	24-05-01 31-061	XXX 1008	Cracks
		I363	LABRYNTH SEAL, T2	24-05-03 31-063	XXX 2287	worn
			SUPPORT, T2 STATOR	24-06-00 31-050	XXX 2263	
		I366	WHEEL ASSY, T2	24-07-00 30-041	XXX 5711	Digs
		I366	DISK, T2	24-07-01 30-040	 1007	Lot 303703
		I363	BLADES, T2	24-07-02 32-100	XXX 1006	Rework
		I363	STATOR ASSY, T3	24-08-00 31-070	XXX 2288	Lot 303705
	I363		STATOR VANE, T3	24-08-01 31-071	XXX 1010	

ENGINE S/N: _____ ORDER NO: _____

E	A	C	ITEM NOMENCLATURE	ATA # S/L SEQ	OFFLOG FUNC #	ROUTING / CONDITION
		I363	LABRYNITH SEAL, T3	24-08-03	XXX	worn
				31-073	2283	
		I363	WHEEL ASSY, T3	24-09-00		Lot 703 704
				30-061	1009	
I363			SUPPORT, TURBINE BEARING	24-10-00	XXX	
				20-025	1011	
		I363	COUPLING ROTOR	24-11-00	XXX	Seal part worn
				30-100	1091	
I366			SUPPORT, BEARING	24-13-00	XXX	
				12-020	5665	
		I363	TENSION WASHER	BOOK 0	XXX	SCRAP 100%
				12-030	5666	
		I363	HEATSHIELD	24-14-00	XXX	Lot 303800
				20-120	2250	
I366			MUFFLER, EXHAUST	24-16-00	XXX	
				31-210	1013	
I363			HOUSING, MUFFLER	24-17-00	XXX	
				31-200	2253	
		I363	GASKET, CURVIC COUPLING 2 EA	24-34-00	XXX	Scrap
				30-090	5714	
		I363	GASKET, CURVIC COUPLING	24-34-00	XXX	"
				30-070	5712	
		I363	GASKET, CURVIC COUPLING	24-34-00	XXX	"
				30-080	5713	
		I363	GASKET, CURVIC COUPLING	24-34-00	XXX	"
				30-110	5715	
I363			NUT	24-35-00	XXX	
				12-080	5671	
I366			RETAINER, BEARING	24-37-00	XXX	
				35-050	5721	
		I363	SEAL ASSY, CARBON TURBINE	24-42-00	XXX	rework
				12-010	2264	
			CONE, TURBINE TAIL	24-43-00	XXX	
	I362			55-100	5787	
			BRACKET, DRAIN	27-04-00	XXX	
				50-220	2270	

ENGINE S/N: _____ ORDER NO: _____

E	A	C	ITEM NOMENCLATURE	ATA # S/L SEQ	OFFLOG FUNC #	ROUTING / CONDITION
I363			SHIELD ASSY, OIL INLET AND OUTLET	27-05-00 50-400	XXX 5766	
I363			TUBE, OIL INLET	27-05-01 60-630	XXX 14939	
I363			TUBE, OIL OUTLET	27-05-01 50-640	XXX 14940	
I363			TUBE, VENT	27-06-00 50-430	XXX 5765	
I363			BLANKET, INSULATION	27-10-00 50-400	XXX 5762	
I363			BLANKET, INSULATION	27-10-00 50-410	XXX 5763	
I363			BLANKET, INSULATION	27-10-00 50-420	XXX 5764	
I363			BLANKET, INSULATION	27-10-00 50-460	XXX 5768	
I363			BLANKET, INSULATION	27-10-00 50-450	XXX 5767	
I363			BLANKET, INSULATION	27-10-00 50-470	XXX 5769	
I363			BLANKET, INSULATION	27-10-00 50-490	XXX 5771	
I363			BLANKET, INSULATION	27-10-00 50-480	XXX 5770	
I363			MANIFOLD, FUEL PRIMARY	10-01-00 20-520	XXX 5699	
I363			MANIFOLD, FUEL SECONDARY	10-01-00 20-530	XXX 5700	
		I363	FUEL NOZZLE, PRIMARY	10-01-00 20-499	 1014	
		I363	FUEL NOZZLE, SECONDARY	10-01-00 20-509	 1015	
		I363	TURBINE SCAVENGE PUMP	90-05-01 55-010	XXX 5778	

I I363 (3) Check Inspection and Condition Sheet for completion.

1 Approving National Aviation Authority/Country	2.	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number
FAA/United States			10950102

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9459818620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	NOZZLE ASSY	3830057-6	N/A	1	1AMT0012	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-31-13, Rev 7, dated 9/29/2000

UAL 60-49-20-00/AR03

INSPECTION OF PART IN OVERHAULED CONDITION REF FORM 8130 TRACKING NUMBER 10950102 FOR DETAILS

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) SAM TOWNE	23 Date (m/d/y) October 7, 2010

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

(162)

1 Approving National Aviation Authority/ Country	2	3 Form Tracking Number
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	10950102

4 Organization Name and Address	Cert. No.	5 Work Order /Contract/Invoice Number
Delavan Inc *d/b/a Turbine Fuel Technologies* 2200 Delavan Drive West Des Moines, Iowa 50265	KT2R964K	4202933168

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
01	NOZZLE ASSY	3830057-6	N/A	1	SERIAL# 1AMT0012	OVERHAULED

13 Remarks FULL DETAILS OF WORK CARRIED OUT PER MFG ORDER # 697992

OVERHAULED To CMM 49-31-13 Rev 7 DATED SEPT 29/00

This document was signed electronically

To the best of our knowledge the parts referred to above have not been involved in an incident or accident and have not been subjected to extreme environmental conditions that could jeopardize its airworthy condition

"Certifies that the work specified in blocks 12/13 was performed in accordance with EASA.IR 145 and with respect to that work, the aircraft component is considered ready for release to service under EASA Acceptance Certificate Number EASA 145.4378"

"The part number marked on a part may include an alpha suffix This alpha suffix denotes the part's revision level All revision levels for a given part number are *fully interchangeable* The part's revision level is not required for this certification."

DLN P/N 68009-6HL

14 Certifies that items identified above were manufactured in conformity to

- [ ] Approved design data and are in condition for safe operation
- [ ] Non-approved design data specified in Block 13

19 [X] 14 CFR 43 9 Return to Service [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
		Sandra Wolfe	KT2R964K
17 Name (Typed or Printed)	Date (m/d/y)	22 Name (Typed or Printed)	23 Date (m/d/y)
		SANDRA WOLFE	SEP 27 2010

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1
Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

Delavan Gas Turbine Products Division
2200 Delavan Drive
West Des Moines IA 50265-010
Telephone 515-274-1561
Fax 515 271-7200

INSPECTION AND TEARDOWN REPORT

FAA REPAIR STATION # KT2R964K

Serial # As Received **1AMT0012**

ITR # **10950102**

DLN M O # **697992** Date Received 09/08/10

Part# 68009-6HL

DLN Lot # H290690 DLN Sales Order # 10017113

Removed from Engine S/N

As Received		As Shipped		Changes
DLN P/N	68009-6HL	DLN P/N	68009-6HL	
S/N	1AMT0012	S/N	1AMT0012	
Cust P/N	3830057-6	Cust P/N	3830057-6	

RECD Customer HONEYWELL INT'L INC HL $

Cust PO # 4202933168

Special Instructions **8130 REQUIRED**

SHIP Customer

Cust PO #

Date Ship SEP 2 7 2010

PRELIMINARY INSPECTION AS RECEIVED AND HIDDEN DAMAGE INSPECTION (MARK ALL THAT APPLY) (EXPLAIN WHERE APPLICABLE)

Clean X Dirty | Contaminated | Damaged | Other Remarks

X Nicks Dents Etc | Parts Missing | Cracks

WORK ACCOMPLISHED

/ Overhaul | Inspected | Tested

Repaired | Modified

Parts Scrapped	Parts Replaced	Part#	Description
		15880	RING, RETAINING
		37765	SCREEN
\	\	68007	PIN
		24859	SPRING RETAINER
		38550-1	NOZZLE ASSEMBLY
		36705	SPRING, COMPRESSION
		39588-3	WASHER, KEY

Test Fuel MIL-C 7024C Type II

Final Flow	Air	Fuel Temp Test Points Fuel	Air Temp F Limits PPH	P Bar HGA Actual PPH	Angle Required	Actual Angle	Spray Quality	Reflow Inspec
		100/0	24 2 - 25 8	25.5	65-75 DEG	70°	OK	
		400/0	SPRAY QUALITY	CHECK			↓	
		800/0	PRESSURE TEST				OK	

Operator 2771 Date 9/24/10 Test Stand # 39 Procedure Doc # CMM 49-31-13 Rev 7 SB #

Process Inspector Approval Final Inspector Approval

1 Approving National Aviation Authority/Country FAA/United States	2	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 10949119-A

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9459818620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	NOZZLE ASSY	3830057-6	N/A	1	NY1-1379	Inspected

13 Remarks

Return to service. Items provided by the customer have been serviced in accordance with 49-31-13, Rev 7, dated 9/29/2000

UAL 60-49-20-00/AR03

INSPECTION OF PART IN OVERHAULED CONDITION REF FORM 8130 TRACKING NUMBER 10949119 FOR DETAILS

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) SAM TOWNE	23 Date (m/d/y) October 7, 2010

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/ Country

FAA/UNITED STATES

2

AUTHORIZED RELEASE CERTIFICATE

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3 Form Tracking Number

10949119

4 Organization Name and Address

Delavan Inc
d/b/a Turbine Fuel Technologies
2200 Delavan Drive
West Des Moines, Iowa 50265

Cert. No. KT2R964K

5 Work Order /Contract/Invoice Number

4202920582

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
01	NOZZLE ASSY	3830057-6	N/A	1	SERIAL# NY1-1379	OVERHAULED

13 Remarks FULL DETAILS OF WORK CARRIED OUT PER MFG ORDER # 697274

This document was signed electronically

OVERHAULED To CMM 49-31-13 Rev 7 DATED SEPT 29/00

To the best of our knowledge the parts referred to above have not been involved in an incident or accident and have not been subjected to extreme environmental conditions that could jeopardize its airworthy condition

"Certifies that the work specified in blocks 12/13 was performed in accordance with EASA.IR 145 and with respect to that work, the aircraft component is considered ready for release to service under EASA Acceptance Certificate Number EASA 145 4378"

"The part number marked on a part may include an alpha suffix This alpha suffix denotes the part's revision level All revision levels for a given part number are fully interchangeable The part's revision level is not required for this certification "

DLN P/N 68009-6HL

14 Certifies that the items identified above were manufactured in conformity to

- ☐ Approved design data and are in condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
		Sandra Wolfe	KT2R964K
17 Name (Typed or Printed)	Date (m/d/y)	22 Name (Typed or Printed)	23 Date (m/d/y)
		SANDRA WOLFE	SEP 14 2010

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly
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Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

Delavan Gas Turbine Products Division
2200 Delavan Drive
West Des Moines, IA 50265-010
Telephone 515-274-1561
Fax 515-271-7200

INSPECTION AND TEARDOWN REPORT

FAA REPAIR STATION # KT2R964K

Serial # As Received **NY1-1379**

ITR # **10949119**

DLN M O # **697274** Date Received 09/02/10

Part# 68009-6HL

DLN Lot # H290357 DLN Sales Order # 10016865

Removed from Engine S/N

As Received		As Shipped		Changes
DLN P/N	68009-6HL	DLN P/N	68009-6HL	
S/N	NY1 1379	S/N	NY1-1379	
Cust P/N	3830057 6	Cust P/N	3830057-6	

Special Instructions **8130 REQUIRED**

RECD Customer HONEYWELL INTL INC HL $

Cust PO # 4202920582

SHIP Customer

Cust PO #

Date Ship SEP 1 4 2010

PRELIMINARY INSPECTION AS RECEIVED AND HIDDEN DAMAGE INSPECTION (MARK ALL THAT APPLY) (EXPLAIN WHERE APPLICABLE)

Clean X Dirty Contaminated Damaged Other Remarks

X Nicks Dents Etc Parts Missing Cracks

WORK ACCOMPLISHED

/ Overhaul Inspected Tested

Repaired Modified

Parts Scrapped	Parts Replaced	Part#	Description
		15880	RING RETAINING
		37765	SCREEN
		68007	PIN
		24859	SPRING RETAINER
		38550 1	NOZZLE ASSEMBLY
	/	36705	SPRING COMPRESSION
	/	39588-3	WASHER KEY

Test Fuel MIL-C 7024C Type II

Final Flow	Air	Fuel	Fuel Temp Test Points 80	Air Temp F Limits PPH	P Bar HGA Actual PPH	Angle Required	Actual Angle	Spray Quality	Reflow Inspec
		100/0		24 2 - 25 8	25.6	65-75 DEG	71	CK	
		400/0		SPRAY QUALITY	CHECK				
		800/0		PRESSURE TEST					

Operator _____ Date 9/13/10 Test Stand # 88 Procedure Doc # CMM 49-31-13 Rev 7 SB #

Process Inspector Approval _____ Final Inspector Approval _____

R57980 Generated 09/03/10 #2223-F

Changes to this form are not allowed without prior Accountable Manager approval

1 Approving National Aviation Authority/Country FAA/United States	2.	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 10949065-A

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9459818620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	NOZZLE ASSY	3830057-6	N/A	1	0113-PV	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-31-13, Rev 7, dated 9/29/2000

UAL 60-49-20-00/AR03

INSPECTION OF PART IN OVERHAULED CONDITION REF FORM 8130 TRACKING NUMBER 10949065 FOR DETAILS

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) SAM TOWNE	23 Date (m/d/y) October 7, 2010

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/ Country	2	3 Form Tracking Number
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	**10949065**

4 Organization Name and Address	Cert. No.	5 Work Order /Contract/Invoice Number
Delavan Inc d/b/a Turbine Fuel Technologies 2200 Delavan Drive West Des Moines, Iowa 50265	**KT2R964K**	**4202920362**

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
01	**NOZZLE ASSY**	**3830057-6**	**N/A**	**1**	**SERIAL#** **0113-PV**	**OVERHAULED**

13 Remarks FULL DETAILS OF WORK CARRIED OUT PER MFG ORDER # 697208

OVERHAULED To CMM 49-31-13 Rev 7 DATED SEPT 29/00

This document was signed electronically

To the best of our knowledge the parts referred to above have not been involved in an incident or accident and have not been subjected to extreme environmental conditions that could jeopardize its airworthy condition

"Certifies that the work specified in blocks 12/13 was performed in accordance with EASA.IR 145 and with respect to that work, the aircraft component is considered ready for release to service under EASA Acceptance Certificate Number EASA.145.4378"

"The part number marked on a part may include an alpha suffix This alpha suffix denotes the part's revision level All revision levels for a given part number are fully interchangeable The part's revision level is not required for this certification "

DLN P/N 68009-6HL

14 Certifies that items identified above were manufactured in conformity to

- ☐ Approved design data and are in condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
		Sandra Wolfe	**KT2R964K**
17 Name (Typed or Printed)	**Date (m/d/y)**	**22 Name (Typed or Printed)**	**23 Date (m/d/y)**
		SANDRA WOLFE	**SEP 14 2010**

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1
Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

Delavan Gas Turbine Products Division
2200 Delavan Drive
West Des Moines, IA 50265-010
Telephone 515 274-1561
Fax 515 271-7200

INSPECTION AND TEARDOWN REPORT

FAA REPAIR STATION # KT2R964K

Serial # As Received **0113-PV**

ITR # **10949065**

DLN M O # **697208** Date Received 09/02/10
Part# 68009-6HL
DLN Lot # H290316 DLN Sales Order # 10016812
Removed from Engine S/N

As Received		As Shipped		Changes
DLN P/N	68009-6HL	DLN P/N	68009-6HL	
S/N	0113-PV	S/N	0113 PV	
Cust P/N	3830057-6	Cust P/N	3830057-6	

RECD Customer HONEYWELL INT'L INC HL $
Cust PO # 4202920362

Special Instructions **8130 REQUIRED**

SHIP Customer
Cust PO #
Date Ship SEP 14 2010

PRELIMINARY INSPECTION AS RECEIVED AND HIDDEN DAMAGE INSPECTION (MARK ALL THAT APPLY) (EXPLAIN WHERE APPLICABLE)

Clean ✓ Dirty Contaminated Damaged Other Remarks _____
✓ Nicks Dents Etc Parts Missing Cracks

WORK ACCOMPLISHED

✓ Overhaul Inspected Tested
Repaired Modified

Parts Scrapped	Parts Replaced	Part#	Description
		15880	RING RETAINING
		37765	SCREEN
		68007	PIN
		24859	SPRING RETAINER
	✓	38550-1	NOZZLE ASSEMBLY
		36705	SPRING COMPRESSION
	✓	39588-3	WASHER, KEY

Test Fuel MIL-C 7024C Type II

Final Flow	Air	Fuel	Fuel Temp Test Points 80	Air Temp F Limits PPH	P Bar HGA Actual PPH	Angle Required	Actual Angle	Spray Quality	Reflow Inspec
		100/0		24 2 25 8	25.6	65-75 DEG	73	OK	
		400/0		SPRAY QUALITY	CHECK				
		800/0		PRESSURE TEST					

Operator _____ Date 9/13/10 Test Stand # 86 Procedure Doc # CMM 49-31-13 Rev 7 SB #

Process Inspector Approval _____ Final Inspector Approval _____

R57980 Generated 09/03/10 #2223-F

Changes to this form are not allowed without prior Accountable Manager approval

1 Approving National Aviation Authority/Country FAA/United States	2.	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 10950099-A

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9459818620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	NOZZLE ASSY	3830057-6	N/A	1	1AMT0008	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-31-13, Rev 7, dated 9/29/2000

UAL 60-49-20-00/AR03

INSPECTION OF PART IN OVERHAULED CONDITION REF FORM 8130 TRACKING NUMBER 109500099 FOR DETAILS

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43.9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) SAM TOWNE	23 Date (m/d/y) October 7, 2010

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown.

1 Approving National Aviation Authority/ Country	2	3 Form Tracking Number
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	**10950099**

4 Organization Name and Address	Cert. No.	5 Work Order /Contract/Invoice Number
Delavan Inc d/b/a Turbine Fuel Technologies 2200 Delavan Drive West Des Moines, Iowa 50265	**KT2R964K**	**4202933166**

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
01	NOZZLE ASSY	3830057-6	N/A	1	SERIAL# 1AMT0008	OVERHAULED

13 Remarks FULL DETAILS OF WORK CARRIED OUT PER MFG ORDER # 697988

This document was signed electronically

OVERHAULED To CMM 49-31-13 Rev 7 DATED SEPT 29/00

To the best of our knowledge the parts referred to above have not been involved in an incident or accident and have not been subjected to extreme environmental conditions that could jeopardize its airworthy condition

"Certifies that the work specified in blocks 12/13 was performed in accordance with EASA IR 145 and with respect to that work, the aircraft component is considered ready for release to service under EASA Acceptance Certificate Number EASA 145 4378"

"The part number marked on a part may include an alpha suffix This alpha suffix denotes the part's revision level All revision levels for a given part number are fully interchangeable The part's revision level is not required for this certification "

DLN P/N 68009-6HL

14 Certifies that items identified above were manufactured in conformity to
- [ ] Approved design data and are in condition for safe operation
- [ ] Non-approved design data specified in Block 13

19
- [X] 14 CFR 43 9 Return to Service
- [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
		Sandra Wolfe	**KT2R964K**
17 Name (Typed or Printed)	Date (m/d/y)	22 Name (Typed or Printed)	23 Date (m/d/y)
		SANDRA WOLFE	**SEP 27 2010**

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1
Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

Delavan Gas Turbine Products Division
2200 Delavan Drive
West Des Moines IA 50265-010
Telephone 515 274-1561
Fax 515-271 7200

INSPECTION AND TEARDOWN REPORT

FAA REPAIR STATION # KT2R964K

Serial # As Received **1AMT0008**

ITR # **10950099**

DLN M O # **697988** Date Received 09/08/10

Part# 68009-6HL

DLN Lot # H290687 DLN Sales Order # 10017110

Removed from Engine S/N

As Received		As Shipped		Changes
DLN P/N	68009-6HL	DLN P/N	68009-6HL	
S/N	1AMT0008	S/N	1AMT0008	
Cust P/N	3830057 6	Cust P/N	3830057 6	

RECD Customer HONEYWELL INT L INC HL $
Cust PO # 4202933166

Special Instructions **8130 REQUIRED**

SHIP Customer
Cust PO #
Date Ship SEP 2 7 2010

PRELIMINARY INSPECTION AS RECEIVED AND HIDDEN DAMAGE INSPECTION (MARK ALL THAT APPLY) (EXPLAIN WHERE APPLICABLE)

Clean | X Dirty | Contaminated | Damaged | Other | Remarks

X Nicks Dents, Etc | Parts Missing | Cracks

WORK ACCOMPLISHED

/ Overhaul | Inspected | Tested

Repaired | Modified

Parts Scrapped	Parts Replaced	Part#	Description	Parts Scrapped	Parts Replaced	Part#	Description	Parts Scrapped	Parts Replaced	Part#	Description
		15880	RING RETAINING			24859	SPRING RETAINER			36705	SPRING COMPRESSION
		37765	SCREEN			38550-1	NOZZLE ASSEMBLY	1	1	39588-3	WASHER KEY
2	2	68007	PIN								

Test Fuel MIL-C 7024C Type II

Final Flow	Fuel Temp Test Points Air	Fuel	Air Temp F Limits PPH	P Bar HGA Actual PPH	Angle Required	Actual Angle	Spray Quality	Reflow Inspec
		100/0	24 2 - 25 8	25.4	65-75 DEG	71°	OK	
		400/0	SPRAY QUALITY	CHECK				
		800/0	PRESSURE TEST				OK	

Operator 2771 Date 9/24/10 Test Stand # 39 Procedure Doc # CMM 49-31-13 Rev 7 SB #

Process Inspector Approval _____ Final Inspector Approval _____

Changes to this form are not allowed without prior Accountable Manager approval

1 Approving National Aviation Authority/Country FAA/United States	2	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 10948754-AA

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9459818620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	NOZZLE ASSY	3830057-6	N/A	1	0146-RV	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-31-13, Rev 7, dated 9/29/2000

UAL 60-49-20-00/AR03

INSPECTION OF PART IN OVERHAULED CONDITION REF FORM 8130 TRACKING NUMBER 10948754 FOR DETAILS

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) SAM TOWNE	23 Date (m/d/y) October 7, 2010

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/ Country	2	3 Form Tracking Number
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	**10948754**

4 Organization Name and Address	Cert. No.	5 Work Order /Contract/Invoice Number
Delavan Inc d/b/a Turbine Fuel Technologies 2200 Delavan Drive West Des Moines, Iowa 50265	**KT2R964K**	**4202916114**

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
01	NOZZLE ASSY	3830057-6	N/A	1	SERIAL# 0146-RV	OVERHAULED

13 Remarks FULL DETAILS OF WORK CARRIED OUT PER MFG ORDER # 696981

This document was signed electronically

OVERHAULED To CMM 49-31-13 Rev 7 DATED SEPT 29/00

To the best of our knowledge the parts referred to above have not been involved in an incident or accident and have not been subjected to extreme environmental conditions that could jeopardize its airworthy condition

"Certifies that the work specified in blocks 12/13 was performed in accordance with EASA.IR 145 and with respect to that work, the aircraft component is considered ready for release to service under EASA Acceptance Certificate Number EASA.145 4378"

"The part number marked on a part may include an alpha suffix This alpha suffix denotes the part's revision level All revision levels for a given part number are fully interchangeable The part's revision level is not required for this certification "

DLN P/N 68009-6HL

14 Certifies that items identified above were manufactured in conformity to

- ☐ Approved design data and are in condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 [X] 14 CFR 43 9 Return to Service [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
		Sandra Wolfe	**KT2R964K**
17 Name (Typed or Printed)	**Date (m/d/y)**	**22 Name (Typed or Printed)**	**23 Date (m/d/y)**
		SANDRA WOLFE	**SEP 14 2010**

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1
Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

Delavan Gas Turbine Products Division
2200 Delavan Drive
West Des Moines, IA 50265-010
Telephone 515-274-1561
Fax 515-271-7200

INSPECTION AND TEARDOWN REPORT

FAA REPAIR STATION # . KT2R964K

Serial # As Received **0146-RV**

ITR # **10948754**

DLN M O # **696981** Date Received 09/01/10

Part# 68009-6HL

DLN Lot # H290205 DLN Sales Order # 10016717

Removed from Engine S/N

As Received		As Shipped		Changes
DLN P/N	68009-6HL	DLN P/N	68009-6HL	
S/N	0146-RV	S/N	0146-RV	
Cust P/N	3830057-6	Cust P/N	3830057-6	

RECD Customer HONEYWELL INT'L INC HL $
Cust PO # 4202916114

Special Instructions **8130 REQUIRED**

SHIP Customer
Cust PO #
Date Ship SEP 14 2010

PRELIMINARY INSPECTION AS RECEIVED AND HIDDEN DAMAGE INSPECTION (MARK ALL THAT APPLY) (EXPLAIN WHERE APPLICABLE)

( ) Clean (X) Dirty ( ) Contaminated ( ) Damaged ( ) Other Remarks _____

(X) Nicks Dents, Etc ( ) Parts Missing ( ) Cracks

WORK ACCOMPLISHED

(✓) Overhaul ( ) Inspected ( ) Tested
( ) Repaired ( ) Modified

Parts Scrapped	Parts Replaced	Part#	Description
		15880	RING, RETAINING
		37765	SCREEN
		69007	PIN
		24859	SPRING RETAINER
		38550-1	NOZZLE ASSEMBLY
	(✓)	36705	SPRING COMPRESSION
		39588-3	WASHER, KEY

Test Fuel MIL-C 7024C Type II

Final Flow	Air	Fuel Temp Test Points 80 Fuel	Air Temp F Limits PPH	P Bar HGA Actual PPH	Angle Required	Actual Angle	Spray Quality	Reflow Inspec
		100/0	24 2 - 25 8	25.3	65-75 DEG	70	ok	
		400/0	SPRAY QUALITY	CHECK				
		800/0	PRESSURE TEST					

Operator [A] Date 9/13/10 Test Stand # 86 Procedure Doc # CMM 49-31-13 Rev 7 SB #

Process Inspector Approval _____ Final Inspector Approval [17]

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001425174Y14 5003759689-1477827-1

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9459818620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	NOZZLE ASSY FUEL	3830057-6	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS NOZZLE ASSY FUEL IS A SUBCOMPONENT OF A TSO AUTHORIZATION

SN 1BKN1446

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to	19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13
☒ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Adrian Jacquez	**OCT 01 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2.	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001425173Y14 5003759689-1477826-1

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9459818620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	NOZZLE ASSY FUEL	3830057-7	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS NOZZLE ASSY FUEL IS A SUBCOMPONENT OF A TSO AUTHORIZATION

SN 1BKL1425

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to	19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13
☒ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
	ODA-602216-NM		
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed)	23 Date (m d y)
Adrian Jacquez	**OCT 01 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/Installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2.	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	8900014251 69Y14 5003759689-1477822-1

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9459818620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	NOZZLE ASSY FUEL	3830057-7	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS NOZZLE ASSY FUEL IS A SUBCOMPONENT OF A TSO AUTHORIZATION

SN 1BKL1412

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Adrian Jacquez	**OCT 01 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001425172Y14 5003759689-1477825-1

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9459818620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	NOZZLE ASSY FUEL	3830057-7	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS NOZZLE ASSY FUEL IS A SUBCOMPONENT OF A TSO AUTHORIZATION

SN 1BKD1357

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to	19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13
☒ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
	ODA-602216-NM		
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed)	23 Date (m d y)
Adrian Jacquez	**OCT 01 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001425170Y14 5003759689-1477823-1

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9459818620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	NOZZLE ASSY FUEL	3830057-7	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS NOZZLE ASSY FUEL IS A SUBCOMPONENT OF A TSO AUTHORIZATION

SN 1BKL1406

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
	ODA-602216-NM		
17 Name (Typed or Printed) **Adrian Jacquez**	18 Date (m d y) **OCT 01 2010**	22 Name (Typed or Printed)	23 Date (m d y)

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/Installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2.	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001425171Y14 5003759689-1477824-1

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9459818620 Page 1 of 1

6. Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	NOZZLE ASSY FUEL	3830057-7	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS NOZZLE ASSY FUEL IS A SUBCOMPONENT OF A TSO AUTHORIZATION

SN 1BKD1371

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

☒ Approved design data and are in a condition for safe operation

☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Adrian Jacquez	**OCT 01 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001425168Y14 5903759689-1477821-1

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9459818620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	NOZZLE ASSY FUEL	3830057-7	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS NOZZLE ASSY FUEL IS A SUBCOMPONENT OF A TSO AUTHORIZATION

SN 1BKU1429

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

☒ Approved design data and are in a condition for safe operation

☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Adrian Jacquez	**OCT 01 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001377335Y14 5003664713-1439622-1

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9450408620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	STATOR TURB 1STG	3844038-4	N/A	1	09-150323-00305	NEW

13. Remarks :
AIRWORTHINESS APPROVAL

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Florie McCrone	**ODA-602216-NM**		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Florie McCrone	**SEP 08 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

DISTRIBUTION
1 COPY ENGINEERING MANAGER
1 COPY HOME SHOP, IF RECOVERABLE
1 COPY INSPECTION, IF EXPENDABLE

UNITED AIRLINES
SURPLUS PROCUREMENT AUTHORIZATION AND INSPECTION REQUEST
(AOP4-1-1 & MSP03-68)

A TO ENGINEERING: Ed Smith 650-634-2693 (MANAGER, PHONE#) — REQUESTED BY: NONGNOOCH MERCER

Home Shop: Tony Silva 650-634-2683 (FOREMAN, PHONE#) — DATE: 9/9/2010 — PHONE: 602-365-3534

Inspection: Al Solis 650-634-2530 (FOREMAN, PHONE#) — PURCHASE ORDER: S9450408620

WE REQUEST AUTHORIZATION TO PURCHASE THE FOLLOWING SURPLUS PART.

QTY	PART NUMBER	SERIAL NUMBER	DESCRIPTION	OEM EQUIVALENT
1	3844038-4	09-150323-00305	STATOR TURB 1STG	N/A

SOURCE: HONEYWELL — ☐ FOREIGN MAINTAINED

QUALITY ASSURANCE APPROVED: ☑ YES ☐ NO — ☑ MAINTENANCE RECORDS AVAILABLE

PARTS TRACABLE TO: AMERICAN AIRLINES

MANUFACTURER: Honeywell — TAGGED BY: Nongnoocn mercer

UNIT PRICE: _____ CURRENT OEM PRICE: _____ TSO OF UNIT: _____ TOTAL TIME OF UNIT: _____ LENGTH OF WARRANTY IF ANY: _____

CONDITION: ☑ NEW ☐ REPAIRED ☐ OVERHAULED ☐ SERVICEABLE ☐ REPAIRABLE (UNSERVICEABLE)

PART EVER INVOLVED IN ACCIDENT OR INCIDENT? ☐ YES* ☑ NO IF YES, GIVE DETAILS:

Honeywell 60

AUTHORIZED BY: NONGNOOCH MERCER (MATERIAL MANAGEMENT MANAGER) — 9/9/2010 (DATE)

B ENGINEERING ACTION AND INSPECTION INSTRUCTIONS

PURCHASE: ☐ AUTHORIZED ☐ NOT AUTHORIZED — REASON

RECEIVING INSPECTION

☐ GENERAL (VISUALLY VERIFY PART NUMBER, OTHER IDENTIFICATION, SAFETY, SECURITY, DAMAGE)

☐ CONFIGURATION

☐ COMPLIANCE TO DRAWING (CRITICAL, DIMENSIONS, HIGHLIGHTED ON DRAWINGS, AS APPLICABLE)

☐ OPERATIONAL CHECK

☐ TEST PER

☐ SPECIAL INSPECTION

☐ SPECIAL DOCUMENTS REQUIRED*

☐ ADDITIONAL INFORMATION REQUIRED

☐ *ACCIDENT PART. FOLLOW SALVAGE INSTRUCTIONS ON FORM (QA 45 - 20 - 01), AND PROCESS PER AOP 2-5-4

AUTHORIZED BY _____ (ENGINEER) _____ (DATE)

_____ (ENGINEERING MANAGER) _____ (DATE)

SFR 4352 10/03

1 Approving National Aviation Authority/Country	2 AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3; AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number
FAA/UNITED STATES		229332

4 Organization Name and Address

Ace Precision Machining Corporation, W146 N5714 Enterprise Ave , Menomonee Falls, WI 53051
FAA Repair Station #QAPR054K

5 Work Order/Contract/Invoice Number
PO# 4202840184

6 ITEM	7 DESCRIPTION	8 PART NUMBER	9 ELIGIBILTY *	10 QUANITY	11 SERIAL/BATCH NUMBER	12 STATUS/WORK
1	Combustor	3830051-5	N/A	1	S/N: N/A 150331- 229332 R	OVERHAULED

13 REMARKS

Ace Precision Machining Corp certifies that the work specified in Block 12/13 was carried out in accordance with EASA implementation rule part 145 approval, and with respect to that work, the aircraft component is considered ready for release to service under EASA 145 4015

AuthDoc ATA 49-23-49 REV: 33 Jun-30-10

Weld repair cracks — Size/straighten — Inspected per ATA manual requirements

AuthDoc. ORI P31850 REV N/C

Thermal Barrier Coat — Replace inner panel

14 Certifies the items identified above were manufactured in conformity to

- ☐ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13

Certifies that unless other wise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorizatoin No	20 Authorized Signature	21 Approval/CertificateNo
		Jennifer Mckibbins	QAPR054K
17 Name (Typed or Printed)	**18 Date (m/d/y)**	**22 Name (Typed or Printed)**	**23 Date (m/d/y)**
		Jennifer Mckibbins	Aug/26/2010

USER/INSTALLER RESPONSIBILITIES

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component assembly
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in block 1
Statements in block 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country FAA/United States	2	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 229332-A
4 Organization Name and Address Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM			5 Work Order/Contract/Invoice Number S9450048620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	COMBUSTOR	3830051-5	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev 33, dated 6/30/2010

UAL 60-49-20-00/AR03

INSPECTION OF PART IN OVERHAULED CONDITION REF FORM 8130 TRACKING NUMBER 229332

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) SAM TOWNE	23 Date (m/d/y) September 22, 2010

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country:	2.	3 Form Tracking Number.
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	B067D60

4. Organization Name and Address: WENCOR, LLC CAGE Code - 26647
1625 North 1100 West, Springville, Utah 84663-0514
Phone: (801)489-2000 Fax: (801)489-2199 ARINC/SITA SLCWEXD (PQ1370NM)

5. Work Order/Contract/Invoice Number. 26532380013

6. Item:	7 Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	BEARING, ANNULA	3613B27-1WE ref: (3613B27-1)	N/A	16	S/N: N/A BAT: N/A	NEW

13. Remarks
1. DCN: 984846
See www.wencor.com for complete eligibility

Serial Numbers: 00200, 00203, 00204, 00209, 00210, 00222, 00223, 00224, 00225, 00226, 00231, 00233, 00234, 00235, 00236, 00264.

Replacement Cert 1/10/10 DS

14. Certifies the items identified above were manufactured in conformity to:
- ☒ Approved design data and are in a condition for safe operation.
- ☐ Non-approved design data specified in Block 13.

19. ☐ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13
Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15. Authorized Signature:	16 Approval/Authorization No:	20. Authorized Signature:	21. Approval/Certificate No..
	ODA-601415-NM	N/A	N/A
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y).**
David W. Sturm	SEP/22/2010	N/A	N/A

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an *installation certification issued in accordance* with the national regulations by the user/installer before the aircraft may be flown.

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001392311Y14 5003691297-1444457-9

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
	Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9450048620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	BEARING RLR	3822099-1	N/A	1	09-162370-14166	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

14 Certifies the items identified above were manufactured in conformity to	19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13		
☒ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service		
15 Authorized Signature Dennis Strobehn	16 Approval/Authorization No **ODA-602216-NM**	20 Authorized Signature	21 Approval/Certificate No
17 Name (Typed or Printed) **Dennis Strobehn**	18 Date (m d y) **SEP 15 2010**	22 Name (Typed or Printed)	23 Date (m d y)

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country FAA/United States	2.	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 307084582-013

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9448628620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	SEAL, STTR 3STG	3844043-2	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev 33, dated 6/30/2010

UAL 60-49-20-00/AR03
INSPECTION OF 3844043-2 IN OVERHAULED CONDITION REF, FORM 8130 TRACKING NUMBER 228715
DATED AUG/25/2010

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14. Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature (22)	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) MARIO GASCA	23 Date (m/d/y) September 14, 2010

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2 AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number
FAA/UNITED STATES		228715

4 Organization Name and Address

Ace Precision Machining Corporation, W146 N5714 Enterprise Ave , Menomonee Falls, WI 53051
FAA Repair Station #QAPR054K

5 Work Order/Contract/Invoice Number
PO# 4202801784

6 ITEM	7 DESCRIPTION	8 PART NUMBER	9 ELIGIBILTY *	10 QUANITY	11 SERIAL/BATCH NUMBER	12 STATUS/WORK
1	Seal, STTR 3STG	3844043-2	N/A	1	S/N N/A 150331- 228715 R	OVERHAULED

13 REMARKS

Ace Precision Machining Corp certifies that the work specified in Block 12/13 was carried out in accordance with EASA implementation rule part 145 approval, and with respect to that work, the aircraft component is considered ready for release to service under EASA 145 4015

AuthDoc. ATA 49-23-49 REV: 33 Jun-30-10

Replace Honeycomb Seal

Inspected per ATA manual requirements

14 Certifies the items identified above were manufactured in conformity to

- ☐ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13

Certifies that unless other wise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorizatoin No	20 Authorized Signature	21 Approval/CertificateNo
		Jennifer Mckibbins	QAPR054K
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) Jennifer Mckibbins	23 Date (m/d/y) Aug/25/2010

USER/INSTALLER RESPONSIBILITIES

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component assembly
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in block 1
Statements in block 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

OMB Control No 2120-0018
09/30/2007

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001020882Y14 5003108875-1130862-1

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PC413NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9385438620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	RING SEAL	3844017-1	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Gabriela Capatina	**ODA-602216-NM**		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Gabriela Capatina	**FEB 23 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1. Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

FAA form 8130 - 3 (6-01) * Installer must cross check eligibility with applicable technical data NSN 0052 - 00 - 012 - 9005

Paperwork Reduction Act Statement
An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number associated with this collection of information is 2120-0018. Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at 800 Independence Ave. SW, Washington, DC 20591, Attn: Information Collection Clearance Officer, ABA-20.

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001343251Y14 5003624156-1401435-1

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PC413NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9442538620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	STATOR TURB 2STG	3844012-3	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

LN 09-150323-205

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
	ODA-602216-NM		

17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed)	23 Date (m d y)
Adrian Jacquez	**AUG 19 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country FAA/United States	2.	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 223388
4 Organization Name and Address Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM			5 Work Order/Contract/Invoice Number S9413398620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	SEAL STTR 2STG	3844036-2	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev. 31, dated 12/31/2009

UAL 60-49-20-00/AR03

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) NONGNOOCH MERCER	23 Date (m/d/y) April 20, 2010

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2 AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number
FAA/UNITED STATES		223388

4 Organization Name and Address

Ace Precision Machining Corporation, W146 N5714 Enterprise Ave , Menomonee Falls, WI 53051
FAA Repair Station #QAPR054K

5 Work Order/Contract/Invoice Number
PO# 4202444368

6 ITEM	7 DESCRIPTION	8 PART NUMBER	9 ELIGIBILTY *	10 QUANITY	11 SERIAL/BATCH NUMBER	12 STATUS/WORK
1	Seal, STTR 2STG	3844036-2	N/A	1	S/N N/A 150331- 223388 R	OVERHAULED

13 REMARKS

Ace Precision Machining Corp certifies that the work specified in Block 12/13 was carried out in accordance with EASA implementation rule part 145 approval and with respect to that work, the aircraft component is considered ready for release to service under EASA 145 4015

AuthDoc: ATA 49-23-49 REV: 31 12-31-09

Replace Honeycomb Seal

Inspect per ATA manual requirements

14 Certifies the items identified above were manufactured in conformity to

☐ Approved design data and are in a condition for safe operation

☐ Non-approved design data specified in Block 13

19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13

Certifies that unless other wise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorizatoin No	20 Authorized Signature	21 Approval/CertificateNo
		Suzanne Loichinger	QAPR054K
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) Suzanne Loichinger	23 Date (m/d/y) Feb/16/2010

USER/INSTALLER RESPONSIBILITIES

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component assembly
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1 it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in block 1
Statements in block 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001422754Y14 5003759689-1473072-1

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9459818620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	PUMP ASSEMBLY SCAVENGE	3880160-3	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS PUMP ASSEMBLY SCAVENGE IS A SUBCOMPONENT OF A TSO AUTHORIZATION

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

☒ Approved design data and are in a condition for safe operation

☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
	ODA-602216-NM		
17 Name (Typed or Printed) **Adrian Jacquez**	18 Date (m d y) **SEP 30 2010**	22 Name (Typed or Printed)	23 Date (m d y)

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/Installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2.	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001392312Y14 5003691297-1444457-1

4 Organization Name and Address	Production Approval		5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	PC413NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9450048620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	RING SEAL	3101874-1	N/A	1	N/A	NEW

13. **Remarks :**

AIRWORTHINESS APPROVAL

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

☒ Approved design data and are in a condition for safe operation

☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Dennis Strobehn	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Dennis Strobehn	**SEP 15 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/Installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country FAA/United States	2.	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 306857256-A
4 Organization Name and Address Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM			5 Work Order/Contract/Invoice Number S9450048620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	COUPLING CURVIC ROTOE SEAL	3840011-3	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev 32, dated 3/31/2010

UAL 60-49-20-00/AR03

INSPECTION OF PART IN OVERHAULED CONDITION REF FORM 8130 TRACKING NUMBER 306857256

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) SAM TOWNE	23 Date (m/d/y) September 22, 2010

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001334301Y15 306857256

4 Organization Name and Address		5 Work Order/Contract/Invoice Number
Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	Repair Station ZN3R030M	N/A 306795946 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	COUPLING, CURVIC, ROTOR SEAL	3840011-3	N/A	1	N/A	OVERHAULED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH
ORI P31653 Rev NC, MAY/29/2007
ORI P34285 Rev A, APR/07/2009
IRM 49-23-49 Rev 32, MAR/31/2010
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER EASA 145 1136

14 Certifies the items identified above were manufactured in conformity to		19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature *Joe Profita*	21 Approval/Certificate No **ZN3R030M**
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed) **Joseph Profita**	23 Date (m d y) **AUG 16 2010**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

Phoenix - Sky Harbor
Honeywell International Inc
1944 E Sky Harbor Circle
PHOENIX AZ 85034

Commercial

Honeywell

Repair Station ZN3R030M

Date 16 AUG 2010

Configuration And Findings Evaluation

Repair Order	2010-005003553730-001 306857256	**Customer:**		
Customer P/O	N/A	**Orig Cust:**		
Part Number.	3840011-3	**Part Desc.** COUPLING, CURVIC, ROTOR SEAL		**Serial No:**
Mods:				
Series/Issue/Amdts:				
Quantity:	1	**Ship Date**		**Received Date:**08 JUL 2010
Aircraft tail #:		**Aircraft S/N#:**	**Date on:**	**Date off:**
Model #:		**Engine S/N.**		**Alternate S/N:**

TIMES / CYCLES

Time Since New:	**Cycles Since New:**
Time Since Overhaul:	**Cycles Since Overhaul:**
Time Since Repair:	**Cycles Since Repair:**

CUSTOMER REASON FOR RETURN

Overhaul

GENERAL CONDITION AS RECEIVED (HIDDEN DAMAGE)

Condition Received Text

Diameters B & D are scored Curvic Runout is out of tolerance

Reason for return Code DAMAGED

Removal Type

DETAIL DISASSEMBLY / EVALUATION FINDINGS

Failure Description:

Findings:

Related Area: **Non-conformance:** **Recurrent Failure:**

Failed Part	Part Name	Condition:	Primary Failure

SERVICE BULLETINS / AUTHORIZING DOCUMENTS

Authorizing Technical Document

Doc# IRM 49-23-49 Rev 32 Date 03/31/2010
Doc# P31653 Rev NC Date 05/29/2007
Doc# P34285 Rev A Date 04/07/2009

WORK PERFORMED / COMMENTS TO CUSTOMER

Workscope Performed / Summary of Actions Taken

codes 800-801-802 to restore diameters and curvic runout

Action Taken Code Overhaul

Customer Confirmed Removal Reason:

Evaluation Type

Phoenix - Sky Harbor
Honeywell International Inc
1944 E Sky Harbor Circle
PHOENIX AZ 85034
Date 16 AUG 2010

Honeywell

Commercial

Repair Station ZN3R030M

Configuration And Findings Evaluation

Repair Order	2010-005003553730-001 306857256	**Customer:**		
Customer P/O.	N/A	**Orig Cust.**		
Part Number:	3840011-3	**Part Desc:**	COUPLING, CURVIC, ROTOR SEAL	**Serial No:**
Mods:				
Series/Issue/Amdts:				
Quantity.	1	**Ship Date:**		**Received Date** 08 JUL 2010

FINAL CONFIGURATION
Part No: 3840011-3

S/N.

Series/Issue/Amdts:

Mods:

MECHANIC/ANALYST Irene Farrell

DATE: 02 AUG 2010

1 Approving National Aviation Authority/Country FAA/United States	2.	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 307248766-005

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9456018620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	SUPPORT	3844009-1	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev 33, dated 6/30/2010

UAL 60-49-20-00/AR03
INSPECTION OF 3844009-1 IN OVERHAULED CONDITION REF, FORM 8130 TRACKING NUMBER 229685
DATED SEP/16/2010

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14. Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature (22)	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) MARIO GASCA	23 Date (m/d/y) October 7, 2010

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 'Approving National Aviation Authority/Country	2 AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIR WORTHINESS APPROVAL TAG	3 Form Tracking Number
FAA/UNITED STATES		229685

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Ace Precision Machining Corporation W146 N5714 Enterprise Ave Menomonee Falls, WI 53051 FAA Repair Station #QAPR054K	PO# 4202875725

6 ITEM	7 DESCRIPTION	8 PART NUMBER	9 ELIGIBILITY *	10 QUANTITY	11 SERIAL/BATCH NUMBER	12 STATUS/WORK
1	Support	3844009-1	N/A	1	S/N. N/A 150331-229685 R	Overhauled

13 REMARKS

Ace Precision Machining Corp certifies that the work specified in Block 12/13 was carried out in accordance with EASA implementation rule part 145 approval, and with respect to that work, the aircraft component is considered ready fro release to service under EASA 145 4015

Auth Doc: ATA 49-23-49 **Rev** 33 06-30-10
Inspected per ATA manual requirements Size/straighten

Auth Doc: ORI P31973 **Rev** A 02-04-08
Replace top ring

14 Certifies the items identified above were manufactured in conformity to	19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature.	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Authorization No
		Jennifer McKibbins	QAPR054K
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed)	23 Date (m/d/y)
		Jennifer McKibbins	Sep/16/2010

USER/INSTALLER RESPONSIBILITIES

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component assembly
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in block 1
Statements in block 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001392308Y14 5003691297-1444457-3

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PC413NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9450048620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	SHROUD FUEL NOZ	3830054-9	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Dennis Strobehn	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Dennis Strobehn	**SEP 15 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/Installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001392313Y14 5003691297-1444457-1

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PC413NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9450048620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	RING SEAL	3844059-1	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

☒ Approved design data and are in a condition for safe operation

☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Dennis Strobehn	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Dennis Strobehn	**SEP 15 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country FAA/United States	2	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 307122210-A
4 Organization Name and Address. Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034		FAA Certificate # ZN3RO3OM	5 Work Order/Contract/Invoice Number S9450048620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	SEAL ASSY TURB BRG	3844065-2	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev 33, dated 6/30/2010

UAL 60-49-20-00/AR03

INSPECTION OF PART IN OVERHAULED CONDITION REF FORM 8130 TRACKING NUMBER 307122210

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, *Code of* Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) SAM TOWNE	23 Date (m/d/y) September 22, 2010

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2.	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001372993Y15 307122210

4 Organization Name and Address	Repair Station	5 Work Order/Contract/Invoice Number
Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	ZN3R030M	N/A 307065175 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	SEAL ASSY TURB BRG	3844065-2	N/A	1	N/A	OVERHAULED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH IRM 49-23-49 Rev 33, JUN/30/2010

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER EASA 145.4136

14 Certifies the items identified above were manufactured in conformity to	19 ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed) **Tony Valle**
		21 Approval/Certificate No **ZN3R030M**
		23 Date (m d y) **SEP 04 2010**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1. Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1 Approving National Aviation Authority/Country	2.	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001400014Y14 5003691297-1454555-1

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PC413NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9450048620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	HOUSING ASSEMBLY, BEARING INLET	3810127-1	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Adrian Jacquez	**SEP 17 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2	AUTHORIZED RELEASE CERTIFICATE	3 Form Tracking Number
FAA/United States		FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	229717-A

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9450048620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	SEAL LABYRINTH	3844050-2	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev 33, dated 6/30/2010

UAL 60-49-20-00/AR03

INSPECTION OF PART IN OVERHAULED CONDITION REF FORM 8130 TRACKING NUMBER 229717

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to	19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
			ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed)	23 Date (m/d/y)
		SAM TOWNE	September 22, 2010

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1 it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2 AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number
FAA/UNITED STATES		229717

4 Organization Name and Address

Ace Precision Machining Corporation, W146 N5714 Enterprise Ave , Menomonee Falls, WI 53051
FAA Repair Station #QAPR054K

5 Work Order/Contract/Invoice Number
PO# 4202877820

70

6 ITEM	7 DESCRIPTION	8 PART NUMBER	9 ELIGIBILTY *	10 QUANITY	11 SERIAL/BATCH NUMBER	12 STATUS/WORK
1	Seal, Labyrinth	3844050-2	N/A	1	S/N: N/A 150331- 229717 R	OVERHAULED

13 REMARKS

Ace Precision Machining Corp certifies that the work specified in Block 12/13 was carried out in accordance with EASA implementation rule part 145 approval, and with respect to that work, the aircraft component is considered ready for release to service under EASA 145 4015

AuthDoc ATA 49-23-49 REV: 33 Jun-30-10

Metal spray surface -B- Inspected per ATA manual requirements

AuthDoc. ORI P31603 REV: A 11/03/08

Replace Honeycomb Seal

14 Certifies the items identified above were manufactured in conformity to	19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13		
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless other wise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service		
15 Authorized Signature	16 Approval/Authorizatoin No	20 Authorized Signature	21 Approval/CertificateNo
			QAPR054K
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) Jennifer Mckibbins	23 Date (m/d/y) Sep/08/2010

USER/INSTALLER RESPONSIBILITIES

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component assembly
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in block 1
Statements in block 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country FAA/United States	2	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 307051725-A

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9450048620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	LINER ASSY	3844001-3	N/A	1	N/A	Inspected

13 Remarks

Return to service. Items provided by the customer have been serviced in accordance with 49-23-49, Rev 33, dated 6/30/2010

UAL 60-49-20-00/AR03

INSPECTION OF PART IN OVERHAULED CONDITION REF FORM 8130 TRACKING NUMBER 307051725

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) SAM TOWNE	23 Date (m/d/y) September 22, 2010

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001370248Y15 307051725

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International Inc Nádražní 400 783 66 HLUBOČKY - MARIÁNSKÉ ÚDOLÍ CZECH REPUBLIC Repair Station MXHY520X	2780329 306954317 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	LINER ASSY	3844001-3	N/A	1	N/A	OVERHAULED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH
IRM 49-23-49 Rev 33
ORI T40452 Rev -

Traceability Number 3300-2780329 R

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER EASA CZ 145 0034

14 Certifies the items identified above were manufactured in conformity to	19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature / 16 Approval/Authorization No	20 Authorized Signature authority per FAR 145 OP 011/2008	21 Approval/Certificate No **MXHY520X**
17 Name (Typed or Printed) / 18 Date (m d y)	22 Name (Typed or Printed) **Petr Balaz**	23 Date (m d y) **SEP 03 2010**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country FAA/United States	2.	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 307269683-A
4 Organization Name and Address Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM			5 Work Order/Contract/Invoice Number S9450048620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	HOUSING ASSY COMPRESSOR	3826138-3	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev 33, dated 6/30/2010

UAL 60-49-20-00/AR03

INSPECTION OF PART IN OVERHAULED CONDITION REF FORM 8130 TRACKING NUMBER307269683

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified In Block 13, the work identified in Block 12 and described in Block 13 was accomplished In accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) SAM TOWNE	23 Date (m/d/y) September 22, 2010

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001396192Y15 307269683

4 Organization Name and Address	Repair Station	5 Work Order/Contract/Invoice Number
Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	ZN3R030M	N/A 307238046 Page 1 of 1

6 Item	7 Description	8. Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	HOUSING ASSY CPRSR	3826138-3	N/A	1	N/A	OVERHAULED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH
IRM 49-23-49 Rev 33, JUN/30/2010
ORI P31488 Rev C, AUG/23/2010

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER. EASA 145.4136

14 Certifies the items identified above were manufactured in conformity to	19 ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature 196
17 Name (Typed or Printed).	18 Date (m d y)	22 Name (Typed or Printed) **Albert J Lucas**
		21 Approval/Certificate No **ZN3R030M**
		23 Date (m d y) **SEP 16 2010**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1. Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

Phoenix - Sky Harbor
Honeywell International Inc
1944 E Sky Harbor Circle
PHOENIX AZ 85034
Date 16 SEP 2010

Honeywell

Commercial

Repair Station ZN3R030M

Configuration And Findings Evaluation

Repair Order: 2010-005003723115-001 307269683 **Customer:** PLANT1014 Aerospace-Phoenix (Sky Harbor) Honeywell International Inc

Customer P/O: N/A **Orig Cust:**

Part Number: 3826138-3 **Part Desc:** HOUSING ASSY CPRSR **Serial No:**

Mods:

Series/Issue/Amdts:

Quantity: 1 **Ship Date:** **Received Date:**08 SEP 2010

Aircraft tail #: **Aircraft S/N#:** **Date on:** **Date off:**

Model #: **Engine S/N:** **Alternate S/N:**

TIMES / CYCLES

Time Since New: **Cycles Since New:**

Time Since Overhaul: **Cycles Since Overhaul:**

Time Since Repair: **Cycles Since Repair:**

CUSTOMER REASON FOR RETURN

Overhaul

GENERAL CONDITION AS RECEIVED (HIDDEN DAMAGE)

Condition Received Text

Worn

Reason for return Code

Removal Type

DETAIL DISASSEMBLY / EVALUATION FINDINGS

Failure Description:

Findings:

Related Area: **Non-conformance:** **Recurrent Failure:**

Failed Part **Part Name** **Condition:** **Primary Failure**

SERVICE BULLETINS / AUTHORIZING DOCUMENTS

Authorizing Technical Document
Doc#: P31488 Rev C Date 08/23/2010
Doc#. IRM 49-23-49 Rev 33 Date 06/30/2010

WORK PERFORMED / COMMENTS TO CUSTOMER

Workscope Performed / Summary of Actions Taken
VISAUL, R/R CONTOUR COATING & 2EA ANTI-ROTATION PINS

Action Taken Code Overhaul

Customer Confirmed Removal Reason:

Evaluation Type

Phoenix - Sky Harbor
Honeywell International Inc
1944 E Sky Harbor Circle
PHOENIX AZ 85034
Date 16 SEP 2010

Commercial

Honeywell

Repair Station ZN3R030M

Configuration And Findings Evaluation

Repair Order: 2010-005003723115-001 307269683
Customer: PLANT1014 Aerospace-Phoenix (Sky Harbor) Honeywell International Inc
Customer P/O: N/A
Orig Cust:
Part Number. 3826138-3
Part Desc: HOUSING ASSY CPRSR
Serial No:
Mods:
Series/Issue/Amdts:
Quantity: 1
Ship Date:
Received Date: 08 SEP 2010

FINAL CONFIGURATION
Part No: 3826138-3
S/N:

Series/Issue/Amdts:

Mods:

MECHANIC/ANALYST David Daley
DATE: 08 SEP 2010

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001402187Y14 5003691297-1457896-1

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PC413NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9450048620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	RETAINER BRG	3826160-2	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

- [X] Approved design data and are in a condition for safe operation
- [ ] Non-approved design data specified in Block 13

19 [ ] 14 CFR 43 9 Return to Service [ ] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Gabriela Capatina	**ODA-602216-NM**		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Gabriela Capatina	**SEP 20 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2.	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001392310Y14 5003691297-1444457-7

4 Organization Name and Address	Production Approval		5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9450048620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	BELL INL CPRSR	3810211-3	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

- [X] Approved design data and are in a condition for safe operation
- [ ] Non-approved design data specified in Block 13

19 [ ] 14 CFR 43 9 Return to Service [ ] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Dennis Strobehn	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Dennis Strobehn	**SEP 15 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2.	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001392309Y14 5003691297-1444457-4

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PC413NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9450048620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	ROTOR	3822057-3	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Dennis Strobehn	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Dennis Strobehn	**SEP 15 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national *regulations of an airworthiness* authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness *authority of the country* specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the *user/installer* before the aircraft may be flown

1 Approving National Aviation Authority/Country FAA/United States	2	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 307120944

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9450048620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	TIE SHAFT ASSY	3822077-4	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev· 32, dated 3/31/2010

UAL 60-49-20-00/AR03

INSPECTION OF PART IN OVERHAULED CONDITION REF FORM 8130 TRACKING NUMBER 307120944

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) SAM TOWNE	23 Date (m/d/y) September 22, 2010

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001384795Y15 307120944

4 Organization Name and Address		5 Work Order/Contract/Invoice Number
Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	Repair Station ZN3R030M	N/A 307052298 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	TIE SHAFT ASSY	3822077-4	N/A	1	N/A	OVERHAULED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH
IRM 49-23-49 Rev 32, MAR/31/2010
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER EASA 145.4136

14 Certifies the items identified above were manufactured in conformity to		19 ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No **ZN3R030M**
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed) **Jason Leyvas**	23 Date (m d y) **SEP 11 2010**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1. Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001384795Y15 307120944

4 Organization Name and Address		5 Work Order/Contract/Invoice Number
Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	Repair Station ZN3R030M	N/A 307052298 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	TIE SHAFT ASSY	3822077-4	N/A	1	N/A	OVERHAULED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH
IRM 49-23-49 Rev 32, MAR/31/2010
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER EASA 145.4136

14 Certifies the items identified above were manufactured in conformity to		19 ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No **ZN3R030M**
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed) **Jason Leyvas**	23 Date (m d y) **SEP 11 2010**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1. Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

Phoenix - Sky Harbor
Honeywell International Inc
1944 E Sky Harbor Circle
PHOENIX, AZ 85034

Commercial

Honeywell

Repair Station ZN3R030M

Date 11 SEP 2010

Configuration And Findings Evaluation

Repair Order: 2010-005003664368-001 **Customer:**
307120944
Customer P/O: N/A **Orig Cust.**
Part Number 3822077-4 **Part Desc:** TIE SHAFT ASSY **Serial No:**
Mods
Series/Issue/Amdts:
Quantity: 1 **Ship Date:** **Received Date:**17 AUG 2010
Aircraft tail #: **Aircraft S/N#.** **Date on.** **Date off:**
Model #. **Engine S/N:** **Alternate S/N:**

TIMES / CYCLES

Time Since New: **Cycles Since New:**
Time Since Overhaul: **Cycles Since Overhaul:**
Time Since Repair: **Cycles Since Repair:**

CUSTOMER REASON FOR RETURN

overhaul

GENERAL CONDITION AS RECEIVED (HIDDEN DAMAGE)

Condition Received Text

Gearshaft is sheared in coupling, dia -f-,-d- worn, minor nicks

Reason for return Code

Removal Type

DETAIL DISASSEMBLY / EVALUATION FINDINGS

Failure Description:

Findings:

Related Area: **Non-conformance:** **Recurrent Failure:**

Failed Part **Part Name** **Condition:** **Primary Failure**

Failure Description:

Findings:

Related Area: **Non-conformance:** **Recurrent Failure:**

Failed Part **Part Name** **Condition:** **Primary Failure**

Failure Description:

Findings:

Related Area: **Non-conformance:** **Recurrent Failure:**

Phoenix - Sky Harbor
Honeywell International Inc
1944 E Sky Harbor Circle
PHOENIX AZ 85034

Commercial

Honeywell

Repair Station ZN3R030M

Date 11 SEP 2010

Configuration And Findings Evaluation

Repair Order.	2010-005003664368-001 307120944	**Customer.**	
Customer P/O	N/A	**Orig Cust.**	
Part Number	3822077-4	**Part Desc:** TIE SHAFT ASSY	**Serial No:**
Mods			
Series/Issue/Amdts:			
Quantity	1	**Ship Date:**	**Received Date.** 17 AUG 2010

Failed Part	Part Name	Condition:	Primary Failure

SERVICE BULLETINS / AUTHORIZING DOCUMENTS

Authorizing Technical Document

Doc# IRM 49-23-49 Rev 32 Date 03/31/2010

WORK PERFORMED / COMMENTS TO CUSTOMER

Workscope Performed / Summary of Actions Taken

VISUAL, HAND FINISH, DIM, FPI, CLEAN, METAL SPRAY, AUTH DOCS IRM 49-23-49 Rev 32, MAR/31/2010

Action Taken Code Overhaul

Customer Confirmed Removal Reason:

Evaluation Type

FINAL CONFIGURATION

Part No: 3822077-4

S/N.

Series/Issue/Amdts:

Mods:

MECHANIC/ANALYST Paul Gilbert

DATE 19 AUG 2010

WORK CENTER: 551

SERIAL NBR	ET	MT	NAME	PWR RTG	CUST
61590		V	APU331	200E	UA

ORDER NUMBER
V656

COAS FOR MODULE TYPE N = SERIAL NUMBER P=1266 MODULE NAME: POWER SECTION WORK CENTER: 551

COA NUMBER	COA CAT	MODULE/ FUNC NBR	UNIT SERIAL	UNIT COA STATUS	ISS	COMP	COA TITLE	COMPLETION DATE

*** NO COAS SCHEDULED FOR THIS UNIT ***

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, ACCY GEARCASE

REV. 4/26/07

AV665	62697	V3000.0
ORDER NO.	ENGINE NO	JOB NO.

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

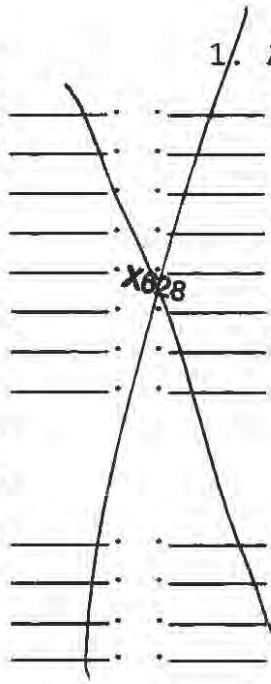
NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT



V0002.0 - NON-ROUTINE ACCOUNTABILITY
V3010.0 ACCY GEARCASE - DISASSEMBLY
V3020.0 ACCY GEARCASE - CLEANING
V3040.0 49-26-01ACCESSORY GEARBOX ASSEMBLY
V4010.0 GEN SCAV PUMP - DISASSEMBLY AND CLEAN
V4040.0 GEN SCAVENGE PUMP - ASSEMBLY
V7010.0 STARTER CLUTCH - DISASSEMBLY/CLEANING
V7040.0 STARTER CLUTCH - ASSEMBLY
NOTE - INCLUDE 49-26-01/ICS - ACCESSORY GEARBOX/CLUTCH AY INSPECTION WITH LOG PACKAGE.

4

Job Instruction Card

331-200 COVER PAGE, ACCY GEARCASE

REV. 4/26/07

AV665	62697	V3000.0
ORDER NO	ENGINE NO	JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

#2 NO COA'S X628

X628.

X628.

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

   ASSEMBLY S/N: X628

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

   SIGNATURE: X628 DATE: 10/22/10

END JOB V3000.0 REVISED 4/26/07

WORK CENTER: 551

SERIAL NBR	ET	MT	NAME	PWR RTG	CUST
62697		V	APU331	200E	UA

ORDER NUMBER
V665

COAS FOR MODULE TYPE A - SERIAL NUMBER P209 MODULE NAME: GEARBOX ASSMBLY WORK CENTER: 551

COA NUMBER	COA CAT	MODULE/ FUNC NBR	UNIT SERIAL	UNIT COA STATUS	ISS	COMP	COA TITLE	COMPLETION DATE

*** NO COAS SCHEDULED FOR THIS UNIT ***

*** END OF REPORT ***

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, OIL PUMP

REV. 4/26/07

PV665	62697	V5000.0
ORDER NO	ENGINE NO	JOB NO

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

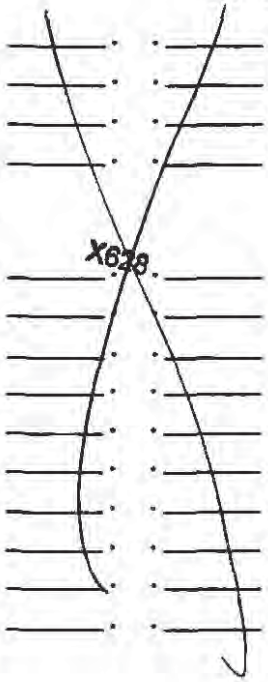
NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT



V0002.0 - NON-ROUTINE ACCOUNTABILITY
V5010.0 OIL PUMP - DISASSEMBLY
V5020.0 OIL PUMP - CLEANING
V5040.0 OIL PUMP - ASSEMBLE
NOTE - INCLUDE 60-49-10-01-01 ICS - OIL PUMP MODULE 'PV' WITH LOG PACKAGE.

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, OIL PUMP

REV. 4/26/07

PV665	62697	V5000.0
ORDER NO	ENGINE NO	JOB NO

X628

of 2 NOCEN'S X628

~~X628~~

X628

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

   ASSEMBLY S/N: 2025 X628

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

   SIGNATURE: X628 DATE: 12/21/10

END JOB V5000.0 REVISED 4/26/07

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, LOAD COMPRESSOR

REV. 4/26/07

FV654	60221	V6000.0
ORDER NO.	ENGINE NO	JOB NO

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT

X629 V0002.0 - NON-ROUTINE ACCOUNTABILITY

X628 X628 V6010.0 DRIVEN COMPRESSOR - DISASSEMBLE

X629 X628 V6020.0 DRIVEN COMPRESSOR - CLEANING

X629 X629 V6040.0 DRIVEN COMPRESSOR - ASSEMBLY

NOTE - INCLUDE 60-49-25-00-00 ICS - LOAD COMPRESSOR/IGV MODULE 'FV' WITH LOG PACKAGE.

X629

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, LOAD COMPRESSOR

REV. 4/26/07

ORDER NO	ENGINE NO.	JOB NO.
FV654	60221	V6000.0

X629

#2 NO COA'S X629

X629

X629

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

ASSEMBLY S/N: P-1166 X629

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

SIGNATURE: X629 DATE: 10/11/10

END JOB V6000.0 REVISED 4/26/07

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 DRIVEN COMPRESSOR - DISASSEMBLE

REV. 4/2/93

FV654	60221	V6010.0
ORDER NO	ENGINE NO	JOB NO

ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-25-01/SP02.

M 7239 1. REMOVE DRIVEN COMPRESSOR COMPONENTS.

M 7239 2. REMOVE IGV ACTUATOR.

M 7239 3. REMOVE IGV MOUNT AND BELLCRANK.

M 7239 4. REMOVE INLET HOUSING AND IGV ASSEMBLY.

M 7239 5. REMOVE INLET BEARING HOUSING ASSEMBLY.

M 7239 6. REMOVE BACKSHROUD.

M 7239 7. REMOVE SEAL CARRIER.

M 7239 8. DISASSEMBLE ROTATING GROUP.

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 DRIVEN COMPRESSOR - DISASSEMBLE

REV. 4/2/93

FV654	60221	V6010.0
ORDER NO	ENGINE NO	JOB NO.

END JOB V6010.0 REVISED 4/2/93

551

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 DRIVEN COMPRESSOR - CLEANING

REV. 4/27/01

FV654	60221	V6020.0
ORDER NO	ENGINE NO	JOB NO

1. U L962 UTILITY MECHANIC (U) CLEAN LOAD COMPRESSOR PARTS PER GN 4-0-3-20 PROCESS 01 (SOLVENT CLEAN), AND/OR GN 4-0-3-20 PROCESS 2C.

   NOTE - DO NOT CLEAN IGV ASSEMBLY. NO CLEANING PERMITTED UNLESS DISASSEMBLED.

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 DRIVEN COMPRESSOR - CLEANING

REV. 4/27/01

FV654	60221	V6020.0
ORDER NO	ENGINE NO.	JOB NO

END JOB V6020.0 REVISED 4/27/01

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 DRIVEN COMPRESSOR - ASSEMBLY

REV. 4/8/09

FV654	60221	V6040.0
ORDER NO.	ENGINE NO.	JOB NO.

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-25-01.

ASSIGNED TO ENGINE ORDER NUMBER V665 X628

M 7066 1. ZERO FACE TIP CLEARANCE CHECK AND ASSEMBLE ROTATING GROUP.

.007 RECORD TIP CLEARANCE

M 7066 2. STRETCH SHAFT.

1.215 DIMENSION A

-1.204 DIMENSION B

=.011 SHAFT STRECH (0.011 - 0.012)

----- CONTINUOUS AIRWORTHINESS ITEM -----LOAD COMPRESSER TIESHAFT INSTALLATION - CHECK AND VERIFY STRETCH MEASUREMENT.

M 7066 3. CHECK ROTATING GROUP RUNOUT. RECORD COMPRESSOR ROTOR TIP RUNOUT.

RUNOUT .001 (0.003 INCH MAX)

M 7066 4. INSTALL SEAL IN INLET HOUSING.

M 7066 5. ASSEMBLE BEARING AND INLET BEARING HOUSING. MARK WHICH BEARING INSTALLED.

7066 A. CONFIGURATION "A" TIMKEN BEARING.

M 7066 6. INSTALL IGV CONTROL ROD.

M 7066 7. INSTALL IGV TO SCROLL HOUSING AND INLET HOUSING.

M 7066 8. INSTALL IGV MOUNT AND BELLCRANK.

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 DRIVEN COMPRESSOR - ASSEMBLY

REV. 4/8/09

FV654	60221	V6040.0
ORDER NO	ENGINE NO	JOB NO.

M 7066 9. INSTALL IGV ACTUATOR AND COMPONENTS

M 7066 10. ADJUST INLET GUIDE VANES.

----- CONTINUOUS AIRWORTHINESS ITEM -----IGV SYSTEM INSTALLATION - CHECK RIGGING OF LOAD COMPRESSOR IGV'S, IGV ASSEMBLY, AND IGV ACTUATOR FOR ITEMS 6-10. DUPLICATE SIGN-OFF ON JOB V1040.0

M 7066 11. CHECK DIFFUSER TO IMPELLER VOLUTE FOR NEGATIVE STEP.

L962 LM 7066 12. DETERMINE SHIM THICKNESS REQUIREMENTS BETWEEN COMPRESSOR ROTOR AND SCROLL HOUSING.

.007 DIMENSION A

0.100 TRIAL SHIM THICKNESS

+.029 DIMENSION B (0.036 - DIM. A = DIM. B)

=.129

+1.351 DIMENSION 3A

=1.480

-1.430 DIMENSION 3B

=.050 REQUIRED SHIM THICKNESS

M 7066 13. INSTALL ROTATING GROUP.
VERIFY AND RECORD TIP CLEARANCE (0.036 +/- .000-.002)
.036 RECORD TIP CLEARANCE

551

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 DRIVEN COMPRESSOR - ASSEMBLY

REV. 4/8/09

FV654	60221	V6040.0
ORDER NO	ENGINE NO	JOB NO

L962 LM 7066 14. RECORD AVG EFFECTIVE AREA PRINTED ON PART N/A. (LIMIT 0.2407-0.2499). NOTIFY ENGINEERING IF EFFECTIVE AREA IS ABOVE 0.2450 .

M 7066 15. DETERMINE DIFFUSER SPACING SHIM REQUIREMENTS.

.307 DIMENSION 4C

-.286 DIMENSION 4D

=.021 REQUIRED SHIM THICKNESS (+/- 0.001)

M 7066 16. DETERMINE CLEARANCE BETWEEN BEARING CARRIER AND BACKSHROUD.

.905 DIMENSION 5A

-.213 DIMENSION 5B

=.692

- 0.640 INCH

=.052 REQUIRED SHIM THICKNESS (+/- 0.005)

M 7066 17. ASSEMBLE DRIVEN COMPRESSOR. (SEE FIGURE 716)

M 7066 18. ASSEMBLE DRIVEN COMPRESSOR. (SEE FIGURE 717)

M 7066 19. ASSEMBLE DRIVEN COMPRESSOR. (SEE FIGURE 718)

M 7066 20. INSTALL INLET TEMPERATURE SENSOR (CIT PROBE).

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 DRIVEN COMPRESSOR - ASSEMBLY

REV. 4/8/09

FV654	60221	V6040.0
ORDER NO	ENGINE NO.	JOB NO

END JOB V6040.0 REVISED 4/8/09

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

UNITED AIRLINES

GTCP331-200ER APU Engine Manual - Inspection and Condition Sheet

LOAD COMPRESSOR MODULE
60-49-25-00-00 ICS

DISTRIBUTION: 551

ENGINE S/N. _____ VADE NO: _____ CUSTOMER: _____

MODULE ORDER NO FV654 MODULE S/N: P-1166 MODULE: F

REASON FOR REMOVAL: _____

COMMENTS: _____

DISPOSITION CODES:		
	E =	PART MEETS DETAIL PART EID REQUIREMENTS (ZERO TIME SINCE DETAIL PART INSPECTION)
	A =	EXPOSED AREA OF PART MEETS VISUAL REQUIREMENTS OF APPROPRIATE EID (CONTINUED TIME SINCE DETAIL PARTS INSPECTION)
	C =	PART ROUTED OR CORRECTIVE ACTION TAKEN
	ATA# S/L-SEQ	EID NUMBER [49 precedes numbers shown (49) 31 -XX] SECTION / LIST - SEQUENCE NUMBER
	OFF LOG FUNC#	STAMP TO INDICATE PART OFF-LOG FROM MODULE FUNCTION NUMBER

NOTE . Sign off appropriate disposition code. More than one code may be signed

NOTE : Indicate condition of unserviceable parts regardless of disposition.

NOTE : To clear parts not exposed, draw a line through the complete entry and stamp in the left margin.

NOTE : If part is routed on an R&R Tag, it is mandatory to stamp the applicable "E" or "A" Block and write "R&R" in the "C" Block Then complete the appropriate computer transaction

NOTE : Parts having no specific EID will be visually inspected per 60-49-00-00 Book "0", Introduction, Section 4, A4.

Module Inspection Guide:

I _____ (1) Module inspected and found serviceable per EID 60-49-25-00-00 [ZERO Time Since Module Inspection (TSMI)] No parts removed from module. No additional sign-off required

I I366 (2) Module partially or completely disassembled Removed parts and / or exposed areas inspected per appropriate EID (ZERO Time Since Detail Parts Inspection - TSDPI).

Control Date: 20070329

ENGINE S/N: _____ ORDER NO: FV654

E	A	C	ITEM NOMENCLATURE	ATA # S/L SEQ	OFFLOG FUNC #	ROUTING / CONDITION
		I366	BEARING, THRUST	20-01-01		Rework
				18-195	5760	
		I366	BEARING, ROLLER	20-01-01		worked
				18-320	5746	
		I366	CARBON SEAL ASSY 2 EA	20-02-00	XXX	worked
				18-275	14367	
		I366	ROTOR, CARBON SEAL 2 EA	22-22-00	XXX	reworK
				18-280	5747	
I366			RETAINER, BEARING	22-02-00	XXX	
				18-070	2276	
		I366	ASSEMBLY, IGV	25-02-00		Ings
				25-000	0988 I	
		I366	HOUSING, BEARING	25-03-00	XXX	Airseal worn
				18-190	0992	
I366			COUPLING & SEAL	25-04-00	XXX	
				18-160	2251	
I366			SOUND ATTENUATOR	25-05-00	XXX	
				18-095	2275	
I366			INSULATOR SHIELD	25-07-01	XXX	
				18-015	1227	
I366			BACKSHROUD ASSY	25-08-00	XXX	
				18-010	5680	
		I366	SCROLL HOUSING	25-09-00	XXX	Volute rub
				18-060	2243	
		I366	BELLCRANK	25-10-00	XXX	cut 303523
				18-120	2239	
		I366	MOUNT, IGV ACTUATOR	25-11-00	XXX	cut 303833
				18-130	2274	
		I366	DIFFUSER	25-13-00	XXX	Vane FOD
				18-050	0990	
I366			HOUSING, INLET	25-15-00	XXX	
				18-100	2272	
		I366	IMPELLER	25-19-00		Broken blades
				18-150	0989	
I366			SHAFT	25-20-00	XXX	
				18-200	0991	

ENGINE S/N _____ ORDER NO: FV654

E	A	C	ITEM NOMENCLATURE	ATA # / S/L SEQ	OFFLOG / FUNC #	ROUTING / CONDITION
		I366	CARRIER, SEAL	25-21-00	XXX	Airseal worn
				18-220	2247	
I366			CARRIER, SEAL	25-22-00	XXX	
				18-210	2248	
I366			SEAL ROTOR	25-23-00	XXX	
				18-170	5687	
I366			CARRIER, BEARING	25-32-00	XXX	
				18-040	2271	
I366			COVER, ACTUATOR MOUNT	25-38-00	XXX	
				50-150	5754	
I366			BRACKET, IGV ACTUATOR	25-39-00	XXX	
				50-160	5755	

I I366 (3)Check Inspection and Condition Sheet for completion.

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001403018Y14 5003719741-1453666-6

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9452378620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	BEARING BALL ANLR	3613827-1	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

REFERENCE MANUFACTURER SERIAL NUMBER 09-151725-08639

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Mark Fields	**SEP 20 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/Installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1. Approving National Aviation Authority/Country:	2.	3 Form Tracking Number
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	000076397

4 Organization Name and Address	5. Work Order/Contract/Invoice Number
HONEYWELL INTERNATIONAL INC 111 SOUTH 34th STREET PHOENIX AZ 85072 B/E AEROSPACE CONSUMABLES MANAGEMENT 10000 NW 15 TERRACE MIAMI, FL 33172 PRODUCTION APPROVAL PT1222NM	7H1224 001 Page 2 of 3

6. Item.	7. Description:	8. Part Number:	9. Eligibility. *	10. Quantity:	11. Serial/Batch Number.	12 Status/Work.
001	BEARING	3822099-1	N/A		MS09-162370-17401 MS09-162370-17499 MS09-162370-17582 MS09-162370-17585 MS09-162370-17651 MS09-162370-17742 MS09-162370-17753 MS09-162370-17755	NEW

13. Remarks:

AIRWORTHINESS APPROVAL
DIRECT SHIPMENT AUTHORIZATION
Customer P O # 26504620019

This BEARING is a subcomponent of a TSO authorization

14. Certifies the items identified above were manufactured in conformity to:

- ☒ **Approved design data and are in a condition for safe operation.**
- ☐ **Non-approved design data specified in Block 13**

19. ☐ **14 CFR 43.9 Return to Service** ☐ **Other regulation specified in Block 13**

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature	21. Approval/Certificate No.:
Kerry Vogt	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y):**	**22. Name (Typed or Printed)**	**23 Date (m d y)**
Kerry Vogt	JUL 27 2010		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001408112Y14 5003719750-1464082-1

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PC413NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9450418620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	DIFFUSER DR CPRSR	3826282-1	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Florie McCrone	**ODA-602216-NM**		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Florie McCrone	**SEP 22 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001393076Y14 5003687890-1444380-1

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PC413NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9450058620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	ROTOR	3822057-3	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Cornel Bonchis	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Cornel Bonchis	**SEP 15 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/Installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001392472Y14 5003710358-1445618-1

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PC413NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9456688620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	ROTOR	3822057-3	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature.	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Dennis Strobehn	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Dennis Strobehn	**SEP 15 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001403005Y14 5003719750-1455162-2

4 Organization Name and Address	Production Approval		5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	PC413NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9450418620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	HOUSING ASSEMBLY, BEARING INLET, DRIVEN	3810187-2	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

☒ Approved design data and are in a condition for safe operation

☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Mark Fields	**SEP 20 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/Installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001418004Y14 5003738206-1464825-4

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9459828620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	CARRIER SEAL	3826125-1	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Dennis Strobehn	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Dennis Strobehn	**SEP 28 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country FAA/United States	2.	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 307181731-002

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9450058620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	SCROLL HOUSING ASSEMBLY DRIVEN COMPRESSOR	3826140-5	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev 33, dated 6/30/2010

UAL 60-49-20-00/AR03
INSPECTION OF 3826140-5 IN OVERHAULED CONDITION REF, FORM 8130 TRACKING NUMBER 306903806
DATED SEP/13/2010

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature 22	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) MARIO GASCA	23 Date (m/d/y) September 15, 2010

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001388503Y15 306903806

4 Organization Name and Address		5 Work Order/Contract/Invoice Number
Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	Repair Station ZN3R030M	N/A 306856814 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	SCROLL HOUSING ASSEMBLY, DRIVEN COMPRESS	3826140-5	N/A	1	N/A	OVERHAULED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH
IRM 49-23-49 Rev 33, JUN/30/2010
ORI P31583 Rev A, SEP/11/2008
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to		19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature Brian Baker (13)	21 Approval/Certificate No **ZN3R030M**
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed) **Brian Baker**	23 Date (m d y) **SEP 13 2010**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/Installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

WORK CENTER: 551

SERIAL NBR	ET	MT	NAME	PWR RTG	CUST
60221		V	APU331	200E	UA

ORDER NUMBER
V654

COAS FOR MODULE TYPE F - SERIAL NUMBER P-1188 MODULE NAME: DRIVEN COMP SE WORK CENTER: 551

COA NUMBER	COA CAT	MODULE/ FUNC NBR	UNIT SERIAL	UNIT COA STATUS	ISS	COMP	COA TITLE	COMPLETION DATE
5-9089	4	00000	UAD0481274	COMPLETED			757/767 GTCP331 APU IGV BUSHNG-UPGRADE	10/01/09

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, IGV ASSEMBLY

REV. 4/26/07

IV654	60221	V6005.0
ORDER NO	ENGINE NO	JOB NO

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

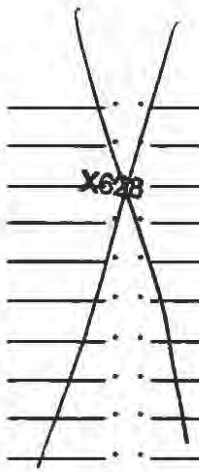
NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT

X628

	V0002.0	- NON-ROUTINE ACCOUNTABILITY
X628 X628	V6015.0	IGV ASSEMBLY-DISASSEMBLE
X628 X628	V6025.0	IGV ASSEMBLY - CLEANING
X628 X628	V6045.0	IGV ASSEMBLY-ASSEMBLE

NOTE - INCLUDE 60-49-25-02-00 ICS - VARIABLE INLET GUIDE VANE MODULE WITH LOG PACKAGE.



10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, IGV ASSEMBLY

REV. 4/26/07

IV654	60221	V6005.0
ORDER NO	ENGINE NO	JOB NO

X628

#2 NO COA'S X628

X628

X628

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

ASSEMBLY S/N: NONE X628

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

SIGNATURE: X628 DATE: 10/6/10

END JOB V6005.0 REVISED 4/26/07

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 IGV ASSEMBLY-DISASSEMBLE

REV. 1/19/01

IV654	60221	V6015.0
ORDER NO	ENGINE NO	JOB NO.

M 7239 1. REMOVE CLEVIS FROM GEARSHAFT.

M 7239 2. REMOVE COVER, WASHERS, RING GEAR ASSEMBLY AND REMOVE GEARSHAFT, SPRING WASHER AND WASHER.

M 7239 3. REMOVE WASHERS, SPRING WASHERS AND (27) GEAR SECTORS. REMOVE BEARINGS, INLET GUIDE VANES, PINS AND BAFFLES. REMOVE AND DISCARD PACKING.

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 IGV ASSEMBLY-DISASSEMBLE

REV. 1/19/01

IV654	60221	V6015.0
ORDER NO.	ENGINE NO.	JOB NO

END JOB V6015.0 REVISED 1/19/01

L962L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 IGV ASSEMBLY - CLEANING

REV. 1/19/01

IV654	60221	V6025.0
ORDER NO	ENGINE NO.	JOB NO.

1. U U012 UTILITY MECHANIC (U) OLEUM WASH IGV ASSEMBLY PARTS PER GN 4-0-3-20 PROCESS 01.

371TL

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 IGV ASSEMBLY - CLEANING

REV. 1/19/01

IV654	60221	V6025.0
ORDER NO.	ENGINE NO	JOB NO.

END JOB V6025.0 REVISED 1/19/01

371TL

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 IGV ASSEMBLY-ASSEMBLE

REV. 1/19/01

IV654	60221	V6045.0
ORDER NO	ENGINE NO	JOB NO

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-25-02/SP01.

M 7066 1. INSTALL IGV INLET VANES.

M 7066 2. INSTALL IGV BEARINGS.

M 7066 3. CHECK FOR PREVIOUS ACCOMPLISHMENT AND CIRCLE A OR B BELOW.

A. RING GEAR AND/OR SECTOR GEARS HAVE DRY FILM LUBRICANT APPLIED. NO FURTHER ACTION REQUIRED.

B. DRY FILM LUBRICANT IS MISSING. PROCEED AS FOLLOWS: CLEAN RING GEAR AND/OR SECTOR GEARS WITH SOL3000-5-1. APPLY LUB4500-1SC AND AIR DRY FOR 30 MINUTES.

M 7066 4. INSTALL IGV ASSEMBLY ON PLYWOOD STORAGE PLATE.

M 7066 5. INSTALL IGV RING GEAR.

M 7066 6. INSTALL IGV GEARSHAFT AND IGV SECTOR GEARS.

M 7066 7. INSTALL COVER ASSEMBLY.

M 7066 8. INSTALL CLEVIS.

1962 LM 7066 9. VERIFY FREE AND SMOOTH IGV ACTUATION.

RECORD ACTUATION FORCE 4 lbs.

----- CONTINUOUS AIRWORTHINESS ITEM -----IGV SYSTEM INSTALLATION - CHECK RIGGING OF IGV ASSEMBLY ITEMS 5-8

M 7066 10. STORE IGV ASSEMBLY IN A CLEAN PLASTIC BAG.

1962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 IGV ASSEMBLY-ASSEMBLE

REV. 1/19/01

IV654	60221	V6045.0
ORDER NO	ENGINE NO	JOB NO.

END JOB V6045.0 REVISED 1/19/01

551

Page 2 of 2

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

UNITED AIRLINES

GTCP331-200ER APU Engine Manual - Inspection and Condition Sheet

VARIABLE INLET GUIDE VANE (IGV) MODULE

60-49-25-02-00 ICS

DISTRIBUTION: 551

ENGINE S/N: _____ VADE NO: _____ CUSTOMER: _____

MODULE ORDER NO: 1V654 MODULE S/N: AA00491274 MODULE: I

REASON FOR REMOVAL _____

COMMENTS: _____

DISPOSITION CODES:	E =	PART MEETS DETAIL PART EID REQUIREMENTS (ZERO TIME SINCE DETAIL PART INSPECTION)
	A =	EXPOSED AREA OF PART MEETS VISUAL REQUIREMENTS OF APPROPRIATE EID (CONTINUED TIME SINCE DETAIL PARTS INSPECTION)
	C =	PART ROUTED OR CORRECTIVE ACTION TAKEN
	ATA# S/L-SEQ	EID NUMBER [49 precedes numbers shown (49) 31 -XX] SECTION / LIST - SEQUENCE NUMBER
	OFF LOG FUNC#	STAMP TO INDICATE PART OFF-LOG FROM MODULE FUNCTION NUMBER

NOTE : Sign off appropriate disposition code. More than one code may be signed.

NOTE : Indicate condition of unserviceable parts regardless of disposition.

NOTE : To clear parts not exposed, draw a line through the complete entry and stamp in the left margin.

NOTE . If part is routed on an R&R Tag, it is mandatory to stamp the applicable "E" or "A" Block and write "R&R" in the "C" Block. Then complete the appropriate computer transaction.

NOTE : Parts having no specific EID will be visually inspected per 60-49-00-00 Book "0", Introduction, Section 4, A4.

Module Inspection Guide:

I _____ (1) Module inspected and found serviceable per EID 60-49-25-02-00 [ZERO Time Since Module Inspection (TSMI)] No parts removed from module. No additional sign-off required.

I 1366 (2) Module partially or completely disassembled Removed parts and / or exposed areas inspected per appropriate EID (ZERO Time Since Detail Parts Inspection - TSDPI).

Control Date: 20070329

GTCP331-200ER APU Engine Manual - Inspection and Condition Sheet
VARIABLE INLET GUIDE VANE (IGV) MODULE

ENGINE S/N: _____ ORDER NO: 16654

E	A	C	ITEM NOMENCLATURE	ATA # S/L SEQ	OFFLOG FUNC #	ROUTING / CONDITION
		I366	HOUSING, IGV	25-02-01	XXX	Cat 303525
				25-010	2245	
I366			COVER, IGV	25-02-02	XXX	
				25-020	2244	
I366			RING GEAR	25-02-03	XXX	
				25-130	2273	
I366		I366	GEAR, SECTOR 27 EA	25-02-04	XXX	Torn tooth damage
				25-110	5704	
I366			GEARSHAFT, IGV	25-02-05	XXX	
				25-190	5709	
I366			VANE, INLET 23 EA	25-02-06	XXX	
				25-030	9102	
I366			VANE, MASTER	25-02-06	XXX	
				25-040	9103	
I366			VANE, SLOTTED 2 EA	25-02-06	XXX	
				25-070	9104	
I366			VANE, NOTCHED 2 EA	25-02-06	XXX	
				25-080	2282	
I366			BAFFLE, 2 EA	25-02-06	XXX	
				25-090	5703	
I366			PIN, 2EA	25-02-06	XXX	
				IPC	5701	

I I366 (3)Check Inspection and Condition Sheet for completion.

1 Approving National Aviation Authority/Country	2.	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001406563Y14 5003719746-1456583-1

4 Organization Name and Address.	Production Approval		5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	PC413NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9450428620 Page 1 of 1

6 Item	7 Description	8 Part Number	9. Eligibility.*	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	GEAR SPUR	3810119-2	N/A	7	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14. Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15. Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Dennis Strobehn	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Dennis Strobehn	**SEP 22 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

0

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE ENGINE - BALANCE

REV. 4/1/96

X628 NU65F 61590

~~V000~~	~~00000~~	V8000.0
ORDER NO	ENGINE NO	JOB NO

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT

X628	X628	V2101.0	IMPELLER - 1ST STAGE COMPRESSOR
X628	X628	V2102.0	IMPELLER - 2ND STAGE COMPRESSOR
X628	X628	V2103.0	WHEEL ASSEMBLY-1ST STAGE TURBINE
X628	X628	V2104.0	WHEEL ASSEMBLY-2ND STAGE TURBINE
		V2105.0	WHEEL ASSEMBLY-3RD STAGE TURBINE
		V2106.0	COUPLING - CURVIC
		V3101.0	GEAR - MATCHED SET - SPUR
		V3102.0	ROTOR - COOLING FAN-SHROUDED-BALANCE
		V6101.0	IMPELLER - LOAD COMPRESSOR

X628

0

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

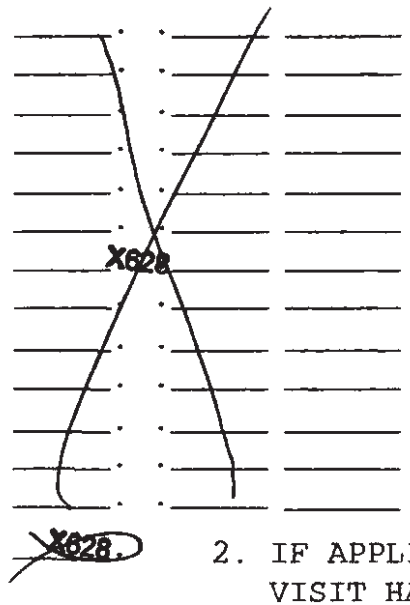
Job Instruction Card

331-200 COVER PAGE ENGINE - BALANCE

REV. 4/1/96

X628 N456 61590

~~V000~~	~~00000~~	V8000.0
ORDER NO	ENGINE NO	JOB NO



2 NO COA'S X628

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

SIGNATURE: X628 DATE: 10/22/10

END JOB V8000.0 REVISED 4/1/96

0

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

No Blending was Needed

Job Instruction Card

331-200 IMPELLER - 1ST STAGE COMPRESSOR

REV. 5/23/94

X628 NV256 6/15/0

~~NV000~~	~~00000~~	V2101.0
ORDER NO	ENGINE NO	JOB NO

7799 M____ 1. BALANCE PER SHOP PROCEDURE 49-22-10/SP01. DATE 8/31/10

FINAL UNBALANCE - GRAMS OR OZ-INCH — ANGLE

H PLANE - 0695 — 229°

J PLANE - 0106 — 245°

NOTE - LIST P/N AND S/N BELOW.

1ST STAGE IMPELLER P/N 3822067-2

1ST STAGE IMPELLER S/N 9-501-2130

7796 M X 2. BLEND PER SHOP PROCEDURE 49-22-10/SP01.

8962 L 3. LEAD VERIFY BLENDING PER 49-22-10/SP01.

8962 L 4. LEAD FINAL CHECK.

NOTE - PUT THIS BALANCE JIC WITH PART IN CONTAINER AFTER COMPLETION. THIS JIC MUST BE ACCOUNTED FOR AND TURNED IN TO PRODUCTION CONTROL CENTER WHEN PART IS ON-LOGGED.

END JOB V2101.0 REVISED 5/23/94

8962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

551

ENGINE MAINTENANCE DEPARTMENT

UNITED

UNITED AIRLINES — SFOFB

SAN FRANCISCO, CA

APU BALANCE MACHINE (EAST)

operator : dav7799 08.31.10 08:24 AM

index balancing

run 1

file name : 331 C-1 IMP.
rotor : 9-501-2130
bal. speed: 1544. O/min

plane 1	plane 2
6.95 moz	1.06 moz
at 229 deg	at 245 deg
in tol	in tol

index comp. AT E2

0

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 IMPELLER - 2ND STAGE COMPRESSOR

REV. 2/1/01 7799

X628 NV656 61590

~~NV000~~	~~00000~~	V2102.0
ORDER NO	ENGINE NO	JOB NO

M____ 1. BALANCE PER SHOP PROCEDURE 49-22-13/SP01.

DATE 8/31/10

FINAL UNBALANCE - GRAMS OR OZ-INCH — ANGLE

J PLANE - .0624 — 266°

H PLANE - .0948 — 8°

NOTE - LIST P/N AND S/N BELOW.

2ND STAGE IMPELLER P/N 3822068-1

2ND STAGE IMPELLER S/N 0-3531-896

M 7799 2. BLEND PER SHOP PROCEDURE 49-22-13/SP01.

L962 L 3. LEAD VERIFY BLENDING PER 49-22-13/SP01.

L962 L 4. LEAD FINAL CHECK.

NOTE - PUT THIS BALANCE JIC WITH PART IN CONTAINER AFTER COMPLETION. THIS JIC MUST BE ACCOUNTED FOR AND TURNED IN TO PRODUCTION CONTROL CENTER WHEN PART IS ON-LOGGED.

END JOB V2102.0 REVISED 2/1/01

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

UNITED AIRLINES — SF OPS

SAN FRANCISCO, CA

AFU BALANCE MACHINE (EAST)

operator : dav 7799 08.31.10 07:26 AM

index balancing

file name : 331 C-2 IMP.
rotor : 0-3501-896
bal. speed: 1537. U/mm

run 3

plane 1	plane 2
6.24 moz	9.48 moz
at 266 deg	at 8 deg
in tol	in tol

index comp. AT EC

0

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 WHEEL ASSEMBLY-1ST STAGE TURBINE

REV. 12/7/95

X628 NV656 21590

~~NV000~~	~~00000~~	V2103.0
ORDER NO	ENGINE NO	JOB NO

M 7799 1. INSTALL BLADES AND TABLOCKS PER SHOP PROCEDURE 49-24-03/SP00.

M 7799 2. BALANCE PER SHOP PROCEDURE 49-24-03/SP01.

DATE 10/5/10

FINAL UNBALANCE - GRAMS OR OZ-INCH: ANGLE

A PLANE - .0133 168

NOTE - LIST P/N AND S/N BELOW.

1ST STAGE DISK P/N 3840019-1

1ST STAGE DISK S/N 0235702427

BLADE SET P/N 3840004-5

7799 L962 L 3. ----- CONTINUOUS AIRWORTHINESS ITEM -----T1 TURBINE BLADE INSTALLATION - CHECK TABLOCK INSTALLATION PER SHOP PROCEDURE 49-24-03/SP00.

No blending was Needed

M X 7799 4. BLEND PER SHOP PROCEDURE 49-24-03/SP01.

L962 L 5. LEAD VERIFY BLENDING OF DISK PER 49-24-03/SP01.

L962 L 6. LEAD FINAL CHECK.

NOTE - PUT THIS BALANCE JIC WITH PART IN CONTAINER AFTER COMPLETION. THIS JIC MUST BE ACCOUNTED FOR AND TURNED IN TO PRODUCTION CONTROL CENTER WHEN PART IS ON-LOGGED.

551

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

0

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 WHEEL ASSEMBLY-1ST STAGE TURBINE

REV. 12/7/95

NV000	00000	V2103.0
ORDER NO	ENGINE NO.	JOB NO.

END JOB V2103.0 REVISED 12/7/95

ALL ITEMS ARE PROPERLY SIGNED OFF.

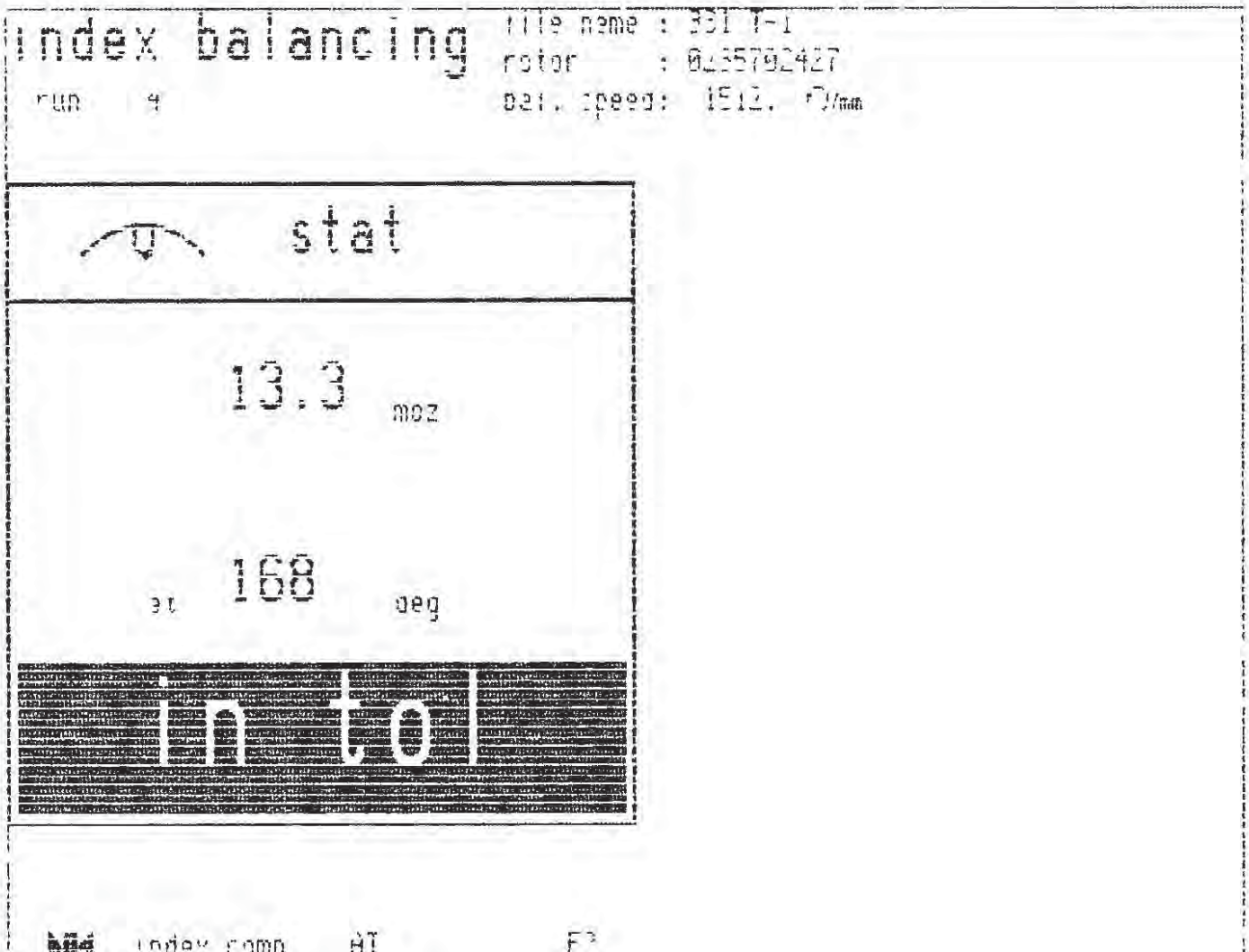
ENGINE MAINTENANCE DEPARTMENT

UNITED

SPEED BARLEND

GAS TURBINE, CO

operator : 06



1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001388908Y14 5003684186-1440063-1

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9451068620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	BLADE TURBINE ROTOR, FIRST STAGE	3840004-5	N/A	36	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
	ODA-602216-NM		
17 Name (Typed or Printed) **Mark Fields**	18 Date (m d y) **SEP 13 2010**	22 Name (Typed or Printed)	23 Date (m d y)

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

0

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 WHEEL ASSEMBLY-2ND STAGE TURBINE

REV. 12/7/95

X628 NV656 61550

~~NV000~~	~~00000~~	V2104.0
ORDER NO.	ENGINE NO.	JOB NO.

M 779 1. INSTALL BLADES AND TABLOCKS PER SHOP PROCEDURE 49-24-03/SP00.

M 7799 2. BALANCE PER SHOP PROCEDURE 49-24-07/SP01 DATE 9/20/10

FINAL UNBALANCE - GRAMS OR OZ-INCH ANGLE

A PLANE - .0175 289°

NOTE - LIST P/N AND S/N BELOW.

2ND STAGE DISK P/N 3840007-1

2ND STAGE DISK S/N 0350101634

BLADE SET P/N 3840008-2

L962 L 3. ----- CONTINUOUS AIRWORTHINESS ITEM -----T2 TURBINE BLADE INSTALLATION - CHECK TABLOCK INSTALLATION PER SHOP PROCEDURE 49-24-03/SP00.

No blending was Needed 7799

M X 7799 4. BLEND PER SHOP PROCEDURE 49-24-07/SP01.

L962 L 5. LEAD VERIFY BLENDING OF DISK PER 49-24-07/SP01.

L962 L 6. LEAD FINAL CHECK.

NOTE - PUT THIS BALANCE JIC WITH PART IN CONTAINER AFTER COMPLETION. THIS JIC MUST BE ACCOUNTED FOR AND TURNED IN TO PRODUCTION CONTROL CENTER WHEN PART IS ON-LOGGED.

END JOB V2104.0 REVISED 12/7/95

551

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

UNITED

7789

index balancing

rotor : 03501015S4

stat

17.5 m²

289 pag

in tol

1 Approving National Aviation Authority/Country	2.	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001382483Y14 5003684186-1444813-1

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PC413NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9451068620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	BLADE, TURBINE ROTOR SECOND STAGE	3840008-2	N/A	40	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

☒ Approved design data and are in a condition for safe operation

☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15. Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
	ODA-602216-NM		
17 Name (Typed or Printed) **Adrian Jacquez**	18 Date (m d y) **SEP 11 2010**	22 Name (Typed or Printed)	23 Date (m d y)

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, ENGINE TEST

REV. 4/26/07

V665	62697	V0103.0
ORDER NO	ENGINE NO	JOB NO

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT

TX050	V0002.0	- NON-ROUTINE ACCOUNTABILITY
X628	V0200.0	- ON-LOG INSPECTION
TX050 TX050	V1522.0	APU RELEASE FORM
	V0103.5	DIAGNOSTIC RUN AND SERV. BEFORE TEST
TX050 TX050	V0104.0	SERVICE BEFORE TEST
TX050 TX050	V0105.1	ENGINE - TEST / RUN SHEET
TX050	V0105.2	PRESERVATION (ENGINE TEST) PART 1
TX050 TX050	V0106.0	SERVICE AFTER TEST
TX050	V0106.1	PRESERVATION (SAT) PART 2
TX050 TX050	V0106.5	SERVICE AFTER TEST LEAD CHECK
TX050	V0106.6	SERVICE AFTER TEST LEAD RECHECK
TX050 TX050	V0106.7	TEST CELL REPAIRS
TX050 TX050	V0110.0	APU ENGINE SHIPPING
TX050		

4

Job Instruction Card

331-200 COVER PAGE, ENGINE TEST

REV. 4/26/07

V665	62697	V0103.0
ORDER NO	ENGINE NO	JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

#2 NO COAS TX050

TX050

TX050

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

SIGNATURE: TX050 DATE: 11/4/10

END JOB V0103.0 REVISED 4/26/07

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 APU RELEASE FORM

REV. 10/26/09

V665	62697	V1522.0
ORDER NO	ENGINE NO	JOB NO

I193A I

1. REVIEW "ENGWRK" DISPLAY IN UNIMATIC TO ENSURE ALL ASSIGNED "ELR'S" ARE CLEARED AND ARE RECORDED IN APU AMIS FILE.

I193A I

2. ACCOMPLISH COMPUTER ENGINE FINAL RECORD CHECK TRANSACTION "ENGFRC".
INITIATE AND COMPLETE INSPECTION PORTION OF SERVICEABLE TAG.

L962 L

3. REPAIR AREA REVIEW DECISIONS HAVE BEEN ACCOMPLISHED.
ENGINE IS READY FOR TEST.

X628

4. ALL JOB CARD AND NON-ROUTINE DOCUMENTATION IS CLEARED AND ACCOUNTED FOR.
FORWARD LOG PACKAGE TO ENGINE RECORDS.

L962 L

5. AFTER TEST RUN INFORMATION:
FINAL RUN IS GOOD, YES L962 NO_____ IF 'NO', LIST CAUSE OF REJECT. _____

6. FOREMAN OR DESIGNEE SIGNATURE VERIFIES THAT ENGINE IS SERVICEABLE, THERE ARE NO RESTRICTIONS AND ALL DEVIATIONS ARE CLOSED.

FOREMAN
OR DESIGNEE _____ DATE 11-5-10

551

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 APU RELEASE FORM

REV. 10/26/09

V665	62697	V1522.0
ORDER NO	ENGINE NO.	JOB NO.

END JOB V1522.0 REVISED 10/26/09

8962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 SERVICE BEFORE TEST

REV. 7/7/05

V665	62697	V0104.0
ORDER NO	ENGINE NO	JOB NO

NOTE - SET TORQUE WRENCH TO THE TORQUE VALUE SPECIFIED. IF NO TORQUE VALUE IS SPECIFIED, USE STANDARD TORQUE PER GN-8-0-2-14.

CAUTION - SCRAP ANY SELF LOCKING NUT WHICH CAN BE TURNED PAST ITS LOCKING FEATURE BY HAND.

-----PREPARE FOR TEST-----

M 7239 1. INSTALL REAR ENGINE MOUNTS. TORQUE TO 80-100 IN. LBS. AND SAFETY WIRE (.032 WIRE).

M 7239 2. INSTALL FUEL INLET QUICK DISCONNECT FITTING.

M 7239 3. INSTALL FUEL PRESSURE TEST TEE FITTING & ADAPTER TUBE.

M 7239 4. INSTALL REDUCER AND OIL TEMPERATURE BULB IN GEARBOX.

M 7780 5. INSTALL MAIN ELECTRICAL HARNESS ADAPTER.

M 7239 6. INSTALL PS3 TEST TUBE. HANG PCD2 TUBE IN CONVIENT LOCATION TO BE INSTALLED DURING SERVICE AFTER TEST.

M 7780 7. CONNECT STARTER HARNESS LEADS TO STARTER TERMINALS.
HOLD BOTTOM NUT WITH WRENCH, TORQUE POSITIVE TOP NUT 80 LB. IN.
HOLD BOTTOM NUT WITH WRENCH, TORQUE NEGATIVE TOP NUT 50 LB. IN.

M 7780 8. INSTALL TEST CELL EXAHUST PIPE, TORQUE CLAMP.

M 7780 9. REMOVE ALL SURPLUS PARTS FROM STALL SHELVES AND ROUTE TO PROPER DESTINATION.

M 7780 10. CLEAN ALL STALL SHELVES.

L962 L 11. VERIFY AND CLEAR ALL "ELR'S" BY REVIEWING "ENGWRK" DISPLAY IN UNIMATIC APU AMIS FILE.

551

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 SERVICE BEFORE TEST

REV. 7/7/05

V665	62697	V0104.0
ORDER NO.	ENGINE NO.	JOB NO

L962 L

12. LEAD CHECK - GENERAL SECURITY CHECK - PRIOR TO TEST. WRENCH CHECK.

END JOB V0104.0 REVISED 7/7/05

L962 L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ENGINE - TEST / RUN SHEET

REV. 7/7/10

V665	62697	V0105.1
ORDER NO	ENGINE NO	JOB NO

DATE OF TEST RUN 11/1/2010 TEST CELL # 1

M 7780 1. INDICATE TYPE OF RUN. STAMP A, B, C, D OR E BELOW:

_____ A. DIAGNOSTIC RUN

7780 B. REPAIR RUN POWER SECTION REFURBISHMENT

_____ C. REPAIR RUN NO POWER SECTION REFURBISHMENT

_____ D. IDLE LEAK CHECK

_____ E. OIL CONSUMPTION

M 7780 2. INSTALL Tt7 INTERFACE JUMPER #1 AT THERMOCOUPLE BOX.

M 7780 3. INSTALL INLET TEMPERATURE FRAME.

M 7780 4. CHECK AND SERVICE OIL QUANTITY PRIOR TO ENGINE TEST. DUPLICATE SIGNOFF V0101.2

M 7780 5. INSTALL AND/OR CONFIRM ENGINE IS SECURED IN A RUN STAND.

M 7780 6. INSTALL VIBRATION EQUIPMENT.

M 7780 7. SECURE ENGINE IN TEST CELL PER ENGINE MANUAL TESTING SECTION 49-20-00.

M 7780 8. CHECK ENGINE AND CELL FOR CLEANLINESS AND SECURITY BEFORE ATTEMPTING ENGINE START. CHECK INLET AND EXHAUST FOR FOREIGN MATERIAL.

NOTE - TEST CELL OPERATOR HAS THE OPTION OF RUNNING THE APU IN MANUAL OR AUTO MODE.

M 7780 9. ACCOMPLISH ALTITUDE SIMULATION BLANKING PLATE PERFORMANCE TEST.

M 7780 10. PERFORM TEST OPERATIONS PER ENGINE MANUAL TESTING SECTION 49-20-00.

DID COOLING FAN VIBRATION EXCEED 1.0 IPS?

_____ A. IF YES, REMOVE GENERATOR, INSTALL COVER PLATE AND REPEAT TEST. IF VIBRATION FALLS BELOW .6 IPS, REPLACE THE GENERATOR. IF VIBRATION IS HIGHER THAN .6 IPS, REPLACE THE COOLING FAN AND REPEAT TEST.

7780

_____ B. IF NO, CONTINUE WITH TEST

M 7780 11. ACCOMPLISH A COMPRESSOR STALL CHECK PER ENGINE MANUAL TESTING SECTION 49-20-00, TO DETERMINE PNEUMATIC STABILITY OF THE LOAD COMPRESSOR. RECORD DCF RECORD DCF ACCOMPLISHED.

DCF 78

M 7780 12. ACCOMPLISH FLOW SENSOR ADJUSTMENT PER ENGINE MANUAL TESTING SECTION 49-20-00. RECORD THE DCF THAT THE SURGE VALVE CRACKS IN DUCT PRESSURIZATION MODE.

DP CRACK DCF 88

M 7780 13. ACCOMPLISH MES CRACK POINT CHECK PER ENGINE MANUAL TESTING SECTION 49-20-00. RECORD DCF THAT THE SURGE CONTROL VALVE CRACKS IN MES MODE.

MES CRACK DCF 97

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ENGINE - TEST / RUN SHEET

REV. 7/7/10

V665	62697	V0105.1
ORDER NO	ENGINE NO	JOB NO

6962 LM 7780 14. ----- CONTINUOUS AIRWORTHINESS ITEM -----
CHECK FUEL MANIFOLD HOSE TO ATOMIZER FOR EVIDENCE OF LEAKING.

(7780) OK
(_____) NOT OK

NO EVIDENCE OF LEAKING ALLOWED.
LIST ALL REPAIRS ON JIC V0106.7.

M 7780 15. SMOKE CHECK - WITH ENGINE OPERATING AT NO-LOAD, CHECK EXHAUST STACK FOR SMOKE. IF EXCESSIVE BLACK SMOKE OR ANY WHITE SMOKE IS OBSERVED, CONTACT SFOEP PERFORMANCE.

M 7780 16. REMOVE FUEL TEST "T" FITTING AND RECONNECT FUEL LINE AND LEAK CHECK IT.

M 7780 17. NON ROUTINE CELL WORK REPLACED 6 EA FUEL NOZZLES

M 7780 18. CHECK OIL LEVEL AND SERVICE AS REQUIRED.

6962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ENGINE - TEST / RUN SHEET

REV. 7/7/10

V665	62697	V0105.1
ORDER NO.	ENGINE NO.	JOB NO

M 7780 19. PARTS CHANGED IN TEST CELL.

NOMENCLATURE	S/N OFF	S/N ON	REASON FOR REPLACEMENT
GEA FUEL NOZZLES			TRYING TO LOWER EGT SPREAD

L962 LM 7780 20. CHECK MAIN OIL SCREEN FOR FOREIGN MATERIAL.
"NO METAL ALLOWED"
SCREEN CONDITION OKAY. YES 7780 NO _____
IF YES, REPLACE FILTER.
IF NO, CONTACT FOREMAN FOR RE-REVIEW OF APU.

NOTE - TAG AND ROUTE ALL PARTS CHANGED TO HOME SHOP.

M 7780 21. REMOVE VIBRATION EQUIPMENT.

M 7780 22. REMOVE INLET TEMPERATURE FRAME.

M 7780 23. IF ENGINE IS TO BE PRESERVED, REQUEST JIC V0105.2 FROM SCHEDULE CENTER.

APU IS TO BE PRESERVED YES _____ NO 7780

_____ .M X 7780 24. CUSTOMER ENGINES ONLY: VIDEO BORESCOPE SERVICE AFTER TEST INSPECTION REQUIRED. REQUEST FROM SCHEDULE CENTER JIC V0108.0

551

L962 L _____ ALL ITEMS ARE PROPERLY SIGNED OFF.

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ENGINE - TEST / RUN SHEET

REV. 7/7/10

V665	62697	V0105.1
ORDER NO.	ENGINE NO	JOB NO

L962 L 25. VERIFY JIC V0108.0 IS COMPLETE.

M 7780 26. MAKE TWO COPIES OF TEST SUMMARY SHEET. ATTACH ONE COPY TO TEST J.I.C. AND PROVIDE THE OTHER COPY ALONG WITH TEST LOG PACKAGE TO ENGINEERING.

M 7780 27. FILL OUT PROBLEM SHEET, MAKE ONE COPY OF PROBLEM SHEET. ATTACH TO TEST J.I.C.

L962 LM 7780 28. TESTED OK 7780 NOT OK ____

TCR FOR _____ EVA REQUESTED _____

IF TCR, THE FOLLOWING MUST BE SIGNED OFF AND DATED.

SHOP FORMAN_____DATE_____

ENGINEER_____DATE_____

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ENGINE - TEST / RUN SHEET

REV. 7/7/10

V665	62697	V0105.1
ORDER NO	ENGINE NO	JOB NO.

END JOB V0105.1 REVISED 7/7/10

L962 L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 SERVICE AFTER TEST

REV. 9/15/09

V665	62697	V0106.0
ORDER NO	ENGINE NO	JOB NO

NOTE - SET TORQUE WRENCH TO THE TORQUE VALUE SPECIFIED. IF NO TORQUE VALUE IS SPECIFIED, USE STANDARD TORQUE PER GN-8-0-2-14.

CAUTION - SCRAP ANY SELF LOCKING NUT WHICH CAN BE TURNED PAST ITS LOCKING FEATURE BY HAND.

M 7393 1. REMOVE TESTCELL EXHAUST PIPE AND CLAMP.

M 7393 2. REMOVE TESTCELL STARTER HARNESS. TIGHTEN STARTER TERMINAL NUTS FINGER TIGHT.

M 7393 3. REMOVE GENERATOR HARNESS.

M 7393 4. REMOVE MAIN ELECTRICAL HARNESS ADAPTER.

M 7393 5. REMOVE PS3 TEST TUBE AND REINSTALL PCD2 TUBE.

M 7393 6. INSTALL GENERATOR TERMINAL COVER.

M 7393 7. REMOVE OIL TEMPERATURE BULB AND REDUCER FROM GEARBOX. INSTALL PLUG AND O-RING. TORQUE PLUG.

M 7393 8. REMOVE FUEL INLET QUICK DISCONNECT FITTING. INSTALL UNION AND O-RING. TORQUE UNION AND THEN CAP.

M 7393 9. INSTALL COVERS, CAPS, OR PLUGS ON ALL TEST EQUIPMENT.

~~L962~~ LM ~~7393~~ 10. CUSTOMER ONLY: VIDEO BORESCOPE REQUIRED, REQUEST JIC V0108.0 FROM SCHEDULE CENTER. PREPARE ENGINE FOR BORESCOPE ACCESS.

ITEM # 10. ENGINE IS NOT FOR CUSTOMER 7393

~~L962~~ I 11. CUSTOMER ONLY: VIDEO BORESCOPE LOAD COMPRESSOR IMPELLER LEADING EDGE AND TRAILING EDGE BLADES. C1 IMPELLER LEADING EDGE AND TRAILING EDGE BLADES. C1 VOLUTE AND LOAD COMPRESSOR VOLUTE. INSPECT PER EID 49-10-01 CRITERIA LIMITS. REQUEST JIC V0108.0 FROM SCHEDULE CENTER.

#11 NOT REQUIRED L962

551

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 SERVICE AFTER TEST

REV. 9/15/09

V665	62697	V0106.0
ORDER NO	ENGINE NO	JOB NO

M 7393 12. REINSTALL PARTS REMOVED FOR BORESCOPE ACCESS.

M 7393 13. PROVIDE ENGINE MOUNT NUTS AND WASHERS IN CLOTH BAG ATTACHED TO LEFT REAR ENGINE MOUNT.

M 7393 14. RE-TORQUE AFT SCAVENGE PUMP ASSEMBLY NUTS TO 90 LB. IN. INSTALL TAIL CONE, SPACER AND SCREWS AND TORQUE TO 50 LB. IN.

M 7393 15. CHECK GEARBOX VENT LINE AT TURBINE EXHAUST FOR OIL WETNESS. MAXIMUM OIL DRIPPINGS IS 150 DROPS OR 10CC TOTAL.

M 7393 16. CHECK OIL LEVEL AND SERVICE AS REQUIRED.

M 7393 17. DRAIN FUEL FROM FILTER BOWL AND REINSTALL FILTER BOWL.

M 7393 18. VERIFY DRAIN MAST FITTINGS ARE IN UPPER HOLES OF DRAIN MAST PER IPC. (REF. IPC 50/60/65-49-16-00-011).

50-49-16-00-011
60-49-16-00-011
65-49-16-00-011

-------CONTINUOUS AIRWORTHINESS ITEMS ----------

CHECK SAFETY.

L962 L 19. ROTATE ENGINE AND CHECK FOR UNUSUAL NOISES AND FOR FREEDOM OF ROTATION.

CAUTION - ROTATE ENGINE AFTER ENGINE HAS COOLED.

L962 L 20. CHECK SAFETY OF MAIN OIL SCREEN

M 7393 21. INSTALL EXXON 2389 PLACARD (265-2389) ON FORWARD SIDE OF OIL FILLER HOUSING. REMOVE OTHER OIL PLACARDS.

M7393 22. INSTALL COVERS, CAPS OR PLUGS ON ALL APU OPENINGS.

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

ITEM # 25. ENGINE IS NOT TO BE PRESERVED 7393

Job Instruction Card

331-200 SERVICE AFTER TEST

REV. 9/15/09

V665	62697	V0106.0
ORDER NO.	ENGINE NO	JOB NO

M 7393 23. CLAMP FUEL LINE TO BRACKET BETWEEN FUEL CONTROL & FLOW DIVIDER VALVE.

M 7393 24. PERFORM SECURITY AND SAFETY CHECK OF ENGINE.
CHECK ALL TUBE AND HOSE NUTS FOR SECURITY.
ASSURE THAT FUEL NOZZLES ARE SECURE AND SAFETIED.
CHECK ELECTRICAL CONNECTORS FOR SECURITY. SAFETY AS REQUIRED.

M 7393 25. IF ENGINE IS TO BE PRESERVED, REQUEST JIC V0106.1 FROM SCHEDULE CENTER.

M 7393 26. THIS UNIT HAS BEEN PREPARED FOR SHIPMENT IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF U.S. DOT 49 CFR HAZARDOUS MATERIALS TRANSPORTATION REGULATIONS AND THE ICAO/IATA DANGEROUS GOODS REGULATIONS.

L 9682 27. LEAD - FINAL CHECK OF ENGINE.
CHECK THAT SERVICEABLE TAG IS PRESENT IN PLASTIC ENVELOPE.
CHECK THAT V0108.0 IS COMPLETE.

L 9682 28. ACCOMPLISH "ENGVST" TRANSACTION IN UNIMATIC TO RECORD THE ENGINE VISIT WORK COMPLETION. RECORD IN "ENGWRK" DISPLAY ANY OTHER OPEN ITEMS TO BE ACCOMPLISHED DURING APU INSTALLATION.

L 9682 ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 SERVICE AFTER TEST

REV. 9/15/09

V665	62697	V0106.0
ORDER NO.	ENGINE NO.	JOB NO.

END JOB V0106.0 REVISED 9/15/09

L962 L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 SERVICE AFTER TEST LEAD CHECK

REV. 6/5/03

V665	62697	V0106.5
ORDER NO.	ENGINE NO.	JOB NO

NOTE - RECORD ALL DISCREPANCIES ON SERVICE AFTER TEST LEAD RECHECK JOB CARD V0106.6

L962 L — 1. VERIFY ALL REPAIRS TO BE ACCOMPLISHED DURING OR AFTER TEST HAVE BEEN PROPERLY COMPLETED.

L962 L — 2. CHECK FOR FREEDOM OF ROTATION AFTER ENGINE HAS COOLED. CHECK FOR UNUSUAL NOISES.

L962 L — 3. CHECK INLET AND EXHAUST FOR DEBRIS, F.O.D. OR OBVIOUS DAMAGE.

L962 ____ L — 4. CHECK GENERATOR, STARTER AND MAIN ELECTRICAL CONNECTORS FOR BENT, BURNED OR PUSHED BACK PINS OR SOCKETS.

L962 L — 5. CHECK THAT ALL CAPS AND PLUGS ARE INSTALLED, TIGHT AND, IF NECESSARY, SAFTIED.

L962 L — 6. CHECK THAT PROPER MANUFACTURER ENGINE IDENTIFICATION DATA PLATE IS INSTALLED ON LOWER INLET PLENUM AND INSPECTION PLATE INSTALLED AND SECURE.

L962 L — 7. CHECK THAT UA S/N I.D. PLATE IS INSTALLED BELOW GEARBOX. CHECK ALL MOUNTED ACCESSORIES FOR PROPER INSTALLATION.

L962 L — 8. CHECK THAT ENGINE MOUNT AND SHIPPING MOUNT BOLTS ARE INSTALLED AND TIGHTENED AFTER APU IS INSTALLED IN SHIPPING STAND.

L962 L — 9. CHECK THAT NEW ENGINE MOUNT NUTS AND WASHERS ARE PROVIDED IN CLOTH BAG ATTACHED TO LEFT AFT MOUNT.

L962 ____ L — 10. CHECK THAT ALL PROTECTIVE COVERS ARE INSTALLED ON INLET AND EXHAUST.

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 SERVICE AFTER TEST LEAD CHECK

REV. 6/5/03

V665	62697	V0106.5
ORDER NO	ENGINE NO	JOB NO

END JOB V0106.5 REVISED 6/5/03

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 TEST CELL REPAIRS

REV. 6/2/10

V665	62697	V0106.7
ORDER NO.	ENGINE NO	JOB NO

NOTE - USE THIS JIC TO RECORD ANY WORK NEEDS TO BE ACCOMPLISHED OTHER THAN THE TEST ITSELF.

NOTE - LEAD, SIGN-OFF IN LEFT HAND COLUMN.
MECHANIC, SIGN-OFF IN RIGHT HAND COLUMN.

NOTE - IF NO DISCREPANCIES FOUND, WRITE NONE.

DISCREPANCY OR ACTION

M 7780 SAFETY ALL FUEL NOZZLES (MOUNTING BOLTS) 7780

L962 LM 7393 SAFETIED ALL FUEL NOZZLES (MOUNTING BOLTS)

M 7780 SAFETY IGNITION LEADS 7780

L962 LM 7393 SAFETIED IGNITION LEAD.

M 7780 SAFETY FLOW SENSOR MODULE ADJUSTMENT BOLT & INSTALL COVER 7780

L962 LM 7393 SAFETIED FLOW SENSOR MODULE ADJUSTMENT BOLT & INSTALLED COVER

551

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 TEST CELL REPAIRS

REV. 6/2/10

V665	62697	V0106.7
ORDER NO	ENGINE NO	JOB NO.

END JOB V0106.7 REVISED 6/2/10

1982 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 APU ENGINE SHIPPING

REV. 11/22/85

V665	62697	V0110.0
ORDER NO	ENGINE NO	JOB NO.

M L962 1. ATTACH LIFTING SLING TO ENGINE AND REMOVE ENGINE FROM RUN OR BUILD STAND.

L962 L 2. CHECK ENGINE MOUNTS FOR SECURITY OF INSTALLATION ON ENGINE.

M L962 3. POSITION ENGINE IN SHIPPING STAND AND SECURE WITH SAFETY PINS ON ENGINE MOUNTS.

L962 L 4. CHECK ENGINE FOR SECURITY AND PROPER INSTALLATION IN SHIPPING STAND.

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

551

ENGINE MAINTENANCE DEPARTMENT

UNITED

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 APU ENGINE SHIPPING

REV. 11/22/85

V665	62697	V0110.0
ORDER NO	ENGINE NO	JOB NO

END JOB V0110.0 REVISED 11/22/85

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

UNITED AIRLINES ENGINE SIT AD VERIFICATION

AOP PA/-48-08-00-13

ENGINE TYPE GTCP331-200 ENGINE S/N 62697 ORDER NO. V665

AD NUMBER	TITLE	INSTRUCTIONS FOR APPLICABILITY	INSTRUCTIONS FOR VERIFICATION	SFO VER
NO ACTIVE AIRWORTHINESS DIRECTIVES (AD)				NA

This report applies to this engine visit only. For Engine AD status, see United Airlines AD Compliance Record.

Signature [signature] Date 10/28/10

KEY: C/W = complied with this visit
PCW = previously complied with
N/A = not applicable this visit
FCW = factory complied with

CONTI DAT

1/6/8

ENH652D0 * * * ENGINE MAINTENANCE SYSTEM * * * 11/05/10 10:50:30
UNTLTM * * * UNIT HARD LIMITS REPORT * * * PAGE: 1
* * * CURRENT POWER RATING * * *

ORDER NUMBER	ENGINE TYPE	MODULE TYPE	SERIAL NUMBER	CUSTOMER UA		TSN	14955	LOW NONE
V665	V		62697	CURRENT PWR RTG	200E	CSN	19404	LOW 08247
				MOUN APU331		DAYS REMAINING		NONE

TIMES/CYCLES CURRENT TO THIS MAINTENANCE

FUNC/MOD NAME	SERIAL NUMBER PART NUMBER	LIMIT VALUE	SERIAL ACCUMS	EVENTS	REMAINING VALUE
01009-001 FJ WHEEL ASSY	0234510215 3840022-4	025000	14584	CSN	10414
01007-001 DISK T2 TURBINE	0350101634 3840007-1	020000	08218	CSN	11782
01004-001 DISK T1 TURBINE	0235702427 3840019-1	020000	11653	CSN	08747

* * * END OF REPORT * * *

ENM647D0 ENGINE MAINTENANCE SYSTEM 11/05/10 10:57:55
ENGMOD ENGINE/MODULE SUMMARY REPORT PAGE: 1

ORDER NUMBER\	ENGINE TYPE\	MODULE TYPE\	SERIAL NUMBER\	NOUN	CUST-OMER	CURRENT POWER RTG	PRIOR ORDER
V665	V		62697	APU731	UA	200E	V607

PRINT: P ACTUALS: ACCUMS/SUBS: Y DIMENSIONS: COAS: LIMITS:

OFF FLEET 767 OFF AC NBR N656UA-APU DATE ON 021710 DATE OFF 090/10
SERVICEABLE STATUS S DATE-LAST-SERV 110510
COMMENTS

ACCUMULATIONS AND SUB-ASSEMBLIES

ACCUMS: 14955 TSN 19404 CSN

MT	MODULE NAME	SER NBR	ORDNO	OFF DATE	ON DATE	TSHM	TSMI
F	DRIVEN COMP SE	P-1166	V654	081010	102110		00000
N	POWER SECTION	P-1266	V656	091910	102110		00000
A	GEARBOX ASSMBLY	P209	V665	070209	120909		00000

* * * END OF REPORT * * *

ORDER NUMBER\	ENGINE TYPE\	MODULE TYPE\	SERIAL NUMBER\	NOUN	CUSTOMER	CURRENT POWER RTG	PRIOR ORDER
FV654	V	F	P-1166	DRIVEN COMP SF	UA	200F	V911

PRINT: P ACTUALS: ACCUMS/SUBS: Y DIMENSIONS: COAS: LIMITS:

ON ORDNO V665 ON SERIAL 62697 DATE ON 102110 DATE OFF 081010
SERVICEABLE STATUS S DATE-LAST-SERV 101110
COMMENTS

ACCUMULATIONS AND SUB-ASSEMBLIES

ACCUMS:	24547 TSN	32707 CSN	00000 TSMI
	00000 CSMI	00000 TSMDPI	00000 CSMDPI

MT	MODULE NAME	SER NBR	ORDNO	OFF DATE	ON DATE	TSHM	TSMI

* * * END OF REPORT * * *

ENH647D0 ENGINE MAINTENANCE SYSTEM 11/05/10 10:58:10
ENGMOD ENGINE/MODULE SUMMARY REPORT PAGE: 1

ORDER NUMBER\	ENGINE TYPE\	MODULE TYPE\	SERIAL NUMBER\	NOUN	CUST-OMER	CURRENT POWER RTG	PRIOR ORDER
NV656	V	N	P-1266	POWER SECTION	UA	200E	V598

PRINT: P ACTUALS: ACCUMS/SUBS: Y DIMENSIONS: COAS: LIMITS:

ON ORDNO V665 ON SERIAL 67697 DATE ON 102110 DATE OFF 081910

SERVICEABLE STATUS S DATE-LAST-SERV 102010

COMMENTS

ACCUMULATIONS AND SUB-ASSEMBLIES

ACCUMS:	22587 TSN	18226 CSN	00000 TSMI
	00000 CSMI	00000 TSMDFI	00000 CSMDFI

MT	MODULE NAME	SER NBR	ORDNO	OFF DATE	ON DATE	TSHM	TSMI

* * * END OF REPORT * * *

EMH647D0 ENGINE MAINTENANCE SYSTEM 11/05/10 10:58:18
FNGMOD ENGINE/MODULE SUMMARY REPORT PAGE: 1

ORDER NUMBER\	ENGINE TYPE\	MODULE TYPE\	SERIAL NUMBER\	NOUN	CUST-OMER	CURRENT POWER RTG	PRIOR ORDER
AV665	V	A	P209	GEARBOX ASSMBL	UA	200E	V578

PRINT:	ACTUALS:	ACCUMS/SUBS:	DIMENSIONS:	COAS:	LIMITS:
P		Y			

ON ORDNO V665 ON SERIAL 62697 DATE ON 120909 DATE OFF 070209
SERVICEABLE STATUS S DATE-LAST-SERV 120809
COMMENTS

ACCUMULATIONS AND SUB-ASSEMBLIES

ACCUMS:	24248 TSN	32269 CSN	00000 TSMI		
	00000 CSMI	00871 TSMDPI	01521 CSMDPI		

MT	MODULE NAME	SER NBR	ORDNO	OFF DATE	ON DATE	TSHM	TSMI

* * * END OF REPORT * * *

ENH692D0 * * ENGINE MAINTENANCE SYSTEM * * 11/05/10 10:58:25
ENGRVW UNITED AIRLINES ENGINE/MODULE REVIEW PAGE: 1

ORDER NUMBER: V665 ET: V MT: SERIAL NUMBER: 52697
NOUN: APU331 CUST: UA POWER RATING: 200E PRIOR-ORDNO: V607
UPDATE NBR: 02 REVISION NBR: 01 DATE: 11/05/10 REVISED BY: 037997
OFF FLEET 767 OFF AC NBR-POS N656UA-APU DATE ON: 02/13/10
DATE MAINTENANCED: 09/07/10 STA: SFO
SERVICEABLE STATUS: S DATE SERV: 11/05/10
COMMENTS: FIX LETTER: N
DATE LSV: 11/18/09 TSLV: 00871 CSLV: 01521 TSLM: 00871 CSLM: 01521
ACCUMS: 14955 TSN 19404 CSN

REASON REMOVED : TURBINE DISK LIFE
REVIEW COMMENTS: TYPE REPAIR: ESV
BORESCOPE: TYPE OF RUN: H
REPAIR DECISION:
"
"
ACCOMPLISH PRELIMINARY BASE CHECK. ROUTE DRIVEN COMPRESSOR AND POWER SECTION.(JE 9/08).

			REMAINING				ROUTE	TIME/LIMIT	
MT	MODULE NAME	SER NBR	HOURS	CYCLE	TSHM	TSMI	THR	W/C	INSTRUCTION
F	DRIVEN COMP SE	P-1902	N/A	N/A	UNK	03430	NONE		
N	POWER SECTION	P-1983	N/A	00170	UNK	03430	B	X	
A	GEARBOX ASSMBL	P209	N/A	N/A	UNK	00871	NONE		

*** END OF REPORT ***

UNITED AIRLINES

APU TEST CELL SUMMARY

Test Cell # 1
Test Completed: 11/ 2/10 Engine Model GTCP-331 Engine Serial No. 62697
Customer Code. UA Order No V665 Run Type: Power Section Refur

START DATA

PARAMETER	16% N2 DATA	LIMIT	30% N2 DATA	LIMIT	50% N2 DATA	LIMIT	95% N2 DATA	LIMIT
Date	11/ 3/10		11/ 3/10		11/ 3/10		11/ 3/10	
Time	6 22:27		6:22.35		6.22:48		6.23 7	
Time	3.1		10.7		23.9		42.4	
NArpm	6427		12000		19979		37943	
NA %	16.1		30.1		50.1		95.2	
Vgg	.04		22		.26		08	
Vagb	.03		07		.13		.16	
Wf-1	57		59		108		240	
Pfpump	-1.9		-1 9		-1.9		-1 9	
Poilpump	-.2		11.2		45.3		66.8	
Pfinlt	36.5		26.4		26.4		26.2	
CITAvg	19.1		19 1		19.3		19 1	
ACCEL	1374.5		624.0		685.8		1102 6	
Toil	18 6		18.6		19.9		26.6	
Tt7Avg	15.9	1028 degC	337.0	912 degC	563.4	826 degC	356 3	633 degC
EGTAvg	15 0		383.0		616.7		354 7	

UNITED AIRLINES

APU TEST CELL SUMMARY

Test Cell # 1
Test Completed. 11/ 2/10 Engine Model: GTCP-331 Engine Serial No 62697
Customer Code: UA Order No. V665 Run Type: Power Section Refur

PARAMETER	IDLE DATA	LIMIT	GENERATOR DATA	LIMIT
Date	11/ 2/10		11/ 2/10	
Time	9: 1:37		9:26:47	
NArpm	39823		39839	
NA %	99.9		100.0	
PMGAB (Loaded)	101		86	81-102 vac
PMGBC (Loaded)	101		86	81-102 vac
PMGAC (Loaded)	100		86	81-102 vac
KVA1	0		85	
GENAB	208		208	203-212 vac
GENBC	208		208	203-212 vac
GENAC	209		209	203-212 vac
GENFREQ	396		396	395-405 hz
Vgg	.21	0.78 mils	.20	0.78 mils
Vagb	35	0.78 mils	36	0.78 mils
DpCond	.89		1.67	
PtCond	15 30		15.76	
P2Cond	14.70		14 70	
Pfpump	202.2		266.4	
PoilPump	62.6	60-75 psig	62 3	
Pagb	-1.3	-1 8 psig	-1.3	
Ps3	100.6		105.1	
CITAvg	20.2		21.5	
Toil	86.8	152 degC	92.1	
Tt/Avg	323 6	500.0 degC	378.7	
EGTAvg	320 1		377 8	
EGT1	328 3		393.1	
EGT2	311 8		362.6	
Wf-1	213		273	

UNITED AIRLINES

APU TEST CELL SUMMARY

Test Cell # 1
Test Completed: 11/ 2/10 Engine Model GTCP-331 Engine Serial No: 62697
Customer Code: UA Order No V665 Run Type: Power Section Refur

PARAMETER	COMB LOAD DATA	LIMIT	PERFORMANCE DATA	LIMIT	ALTITUDE DATA	LIMIT
Date	11/ 2/10		11/ 2/10		11/ 2/10	
Time	9 32 11		12: 3:59		7. 3:40	
NArpm	40412		40402		40407	
NA %	101.4	101 %	101.4	101 %	101.4	101 %
Vgg	.18	0.78 mil	.19	0.78 mil	.15	0.78 mil
Vagb	.37	0.78 mil	.30	0.78 mil	.29	0.78 mil
IGV-lvdt	0		-18		-19	
SV-TM	100		74		0	
DCP	96.6		96.2	95-97 ppm	95.9	95-97 ppm
KVA1	89		0		0	
WBcorr	273.1		278 0	258.7 ppm	289.1	264.2 ppm
WF-1	402		375		377	
HP/0	464.8		518 6		526.6	
NC	.8		8		8	
DpCond	2.59		2.85		2.69	
PtCond	53.66		55.53		57.41	
P2Cond	14.68		14.64		14 66	
PBcorr	52.54		54.71	52.53 psia	56.70	53.39 psia
Pcell	14.85		14 83		14 84	
Pfpump	456.2		413.4		413.1	
PoilPump	61.7		62.1	60-75 psig	66.7	60-75 psig
Pagb	-1.5		-1 4		3.3	
Ps3	114.6		111.3		113.9	
CITAvg	22.5		26.2		19 3	
CIT1	21.4		25 1		18 4	
CIT2	22.6		26.3		19.4	
CIT3	22.7		26.4		19 6	
CIT4	23.0		26.9		19.9	
TBcorr	188.6		205.4		199.6	
Tfinlt	19.3		29.2		14 8	
Toil	102.9		96.2		90.4	
Tt/Avg	513.1		492.9		481.9	
Tt/AvgCorr	515.9		479.7	501.8 degC	461.6	486.0 degC
EGT1	544.1		521.4		509.7	
EGT2	490.7		472 7		461.3	
EGTAvg	516 9		496.9		485 0	

UNITED AIRLINES

APU TEST STATUS SUMMARY

Test Completed. 11/ 1/10 | Engine Model: GTCP-331 | Engine Serial No: 62697
Customer Code: UA | Order No: V665 | Run Type. Hot Section Repair
Total Runtime: 2:44:14 | Fuel Used: 135 gals

AUTORUN TASKS	*COMPLETED*	*PASS/FAIL*
Altitude Simulation Test	YES	Passed
Oil In Bleed Air	YES	Passed
Performance Run	YES	Passed
Combined Load	YES	Passed
Generator Check	YES	Passed
Surge Control	YES	Passed
Leak/Instrumentation/Idle	YES	Passed
Start	YES	Passed
Fuel bleed	YES	Passed

COMPONENT(s) REPAIRED/REPLACED

APU primary/secondary atomizer repaired/replcd	YES

TESTED OK 7780 NOT OK _____

BY: _____

DATE: NOV 3, 2010

ENGINE MAINTENANCE RECORDS

LOG CERTIFICATION FORM D-199

REF: PAOP 45-55-30-04

CONTROLLED DOCUMENT - DO NOT DUPLICATE

ALL PORTIONS OF BUILD LOGS ARE COMPLETE AND ACCURATE FOR ENGINE/STAND-ALONE MODULES

ESN 62697

Repair Order Number V665

Power Rating 331-200E

IN ADDITION, THE A.D. VERIFICATION CHECKLIST (AS SUPPLIED BY SFOEP) IS ON FILE IN SFOMR/PA AS PART OF THE ENGINE LOG

THE FOLLOWING ITEMS MUST BE CLEARED BEFORE THE ENGINE/STAND-ALONE MODULE IS RELEASED (IF NONE, SO STATE)

NONE

SFOMR/PA _____ **Date** 10/28/2010

Shirley Buffert

FOR SFOMR / PA USE ONLY

WHEN ENGINE MAINTENANCE RETURNS THIS D-199 TO SFOMR/PA AS A RESULT OF A TEST CELL INTERRUPT (TCI) OR A TEST CELL REJECT (TCR), FILL OUT THE FOLLOWING INFORMATION:

REASON: **TCI or TCR?** _____

SFOMR/PA _____ **Date**

(SIGNATURE HERE RENDERS THIS D-199 NULL AND VOID)

SFR4568

REVISED 01/09/2004
(ALL PRIOR DATES OBSOLETE)

ORIGINAL

UNITED

PSEN441A-1 UNITED AIRLINES ENGINE MAINTENANCE SYSTEM PAGE 1
09/07/10 COMPOSITION LIST FOR UNIT TIME: 08.01

REASON: REMOVAL REQUESTOR: PSEN440A PHONE: ORG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V665 MODULE TYPE MODULE NAME WORK CENTER 551

WORK CENTER. 551 TSLV. 00871 CSLV. 01521 TSLM: 00871 CSLM. 01521

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V665	N656UA	APU	SFO	TURBINE DISK LIFE	09/07/10

UNIT ACCUMULATIONS

14955 TSN 19404 CSN

LIMITS THIS EMO WTY

UNIT'S COMPOSITION

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	WTY
DRIVEN COMP SE	F	P-1902	14855 TSN	23010 CSN	03430 TSMI	04973 CSMI		
			03430 TSMDPI	04973 CSMDPI				
POWER SECTION	N	P-1983	16037 TSN	19997 CSN	03430 TSMI	04973 CSMI		
			03430 TSMDPI	04973 CSMDPI				
GEARBOX ASSMBLY	A	P209	24248 TSN	32269 CSN	00871 TSMI	01521 CSMI		
			00871 TSMDPI	01521 CSMDPI				

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS				LIMITS THIS EMO	WTY	UNATH PRI
05650 001	P-1122	UNK TSN	UNK CSN	00871 TSDPI				
FAN -SHROUDED R	3616959-6	01521 CSDPI						

REASON: REMOVAL REQUESTOR: PSEN440A PHONE: ORG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V665 MODULE TYPE MODULE NAME WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697		V	APU331	2000	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V665	N656UA	APU	SFO	TURBINE DISK LIFE	09/07/10

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS			LIMITS THIS EMO	WTY
DRIVEN COMP SE	F	P-1902	14859 TSN	23010 CSN	03430 TSMI	04973 CSMI	
			03430 TSNDPI	04973 CSNDPI			

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	WTY	UNATH PRT
00988 001	1983	UNK TSN	UNK CSN	03430 TSDPI			
IGV ASSY VARIBL	3810231-21	04973 CSDPI	UNK TSS-9089				
00989 001	1-501-1749	18795 TSN	17150 CSN	03430 TSDPI			
IMPELLER-DRCOMP	3822080-3	04973 CSDPI					
05760 001	021998-670	UNK TSN	UNK CSN	03430 TSDPI			
BRNG-D/C THRUST	3613827-1	04973 CSDPI					
05746 001	0591410110	UNK TSN	UNK CSN	00871 TSDPI			
BRNG-D/C ROLLER	3822099-1	01521 CSDPI					

UNITED

PSEN441A-1 UNITED AIRLINES ENGINE MAINTENANCE SYSTEM PAGE 3
09/07/10 COMPOSITION LIST FOR LOWER ASSEMBLY TIME. 08.01

REASON: REMOVAL REQUESTOR: PSEN440A PHONE: ORG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V665 MODULE TYPE MODULE NAME WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697		V	APU331	2OOE	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V665	N656UA	APU	SFO	TURBINE DISK LIFE	09/07/10

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS			LIMITS THIS EMO	LIMITS WTY
POWER SECTION	N	P-1983	16037 ISN	19997 CSN	03430 TSMI 04973 CSMI		
			03430 TSNDPI	04973 CSNDPI			

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS						LIMITS THIS EMO	LIMITS WTY	UNATH PRT
0E719 001 BRNG,P/S-THRUST	041998-172 3613827-1	UNK TSN 04973 CSDPI	UNK CSN	03430 TSDPI						
05720 001 BRNG,P/S-ROLLR	96-3378 3822099-1	UNK TSN 04973 CSDPI	UNK CSN	03430 TSDPI						
00993 001 C1 COMP IMPELLR	2-501-3106 3822067-2	33879 TSN 04973 CSDPI	28681 CSN	03430 TSDPI						
00995 001 C2 COMP IMPELLR	8-3076 3822068-1	23339 TSN 04973 CSDPI	31807 CSN	03430 TSDPI						
01002 001 COMB CHMBANNULR	10407 3830051-5	UNK TSN 04973 CSDPI	UNK CSN	03430 TSDPI						
01005 001 T1 STATOR VANE	TC14-245 E3844038-4	03430 TSN 04973 CSDPI	04973 CSN	03430 TSDPI					YES	
01009 001 T3 WHEEL ASSY	0734504903 3840022-4	03430 TSN 04973 CSDPI	04973 CSN	03430 TSDPI					YES	
01007 001 DISK T2 TURBINE	9650104048 3840007-1	13279 TSN 09031 CSDPI	16383 CSN	06771 TSDPI		X				
01004 001 DISK T1 TURBINE	9835702680 3840019-1	12013 TSN 04973 CSDPI	19830 CSN	03430 TSDPI						
01014 001 NOZZLE SET PRIM	UA00459957 331NOZPRI1	UNK TSN 04973 CSDPI	UNK CSN	03430 TSDPI		B				

REASON: REMOVAL REQUESTOR: PSEN440A PHONE: ORG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V665 MODULE TYPE MODULE NAME WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V665	N656UA	APU	SFO	TURBINE DISK LIFE	09/07/10

FUNC NAME	POS	SERIAL NBR / PART NUMBER	FUNCTION ACCUMULATIONS					LIMITS THIS EMO	WTY	UNATH PRT
01015 NOZZLE SET SECD	001	UA00459958 331NOZSEC1	UNK 04979	ISN CSOPI	UNK	CSN	03430 TSOPI	B		

UNITED

PSEN441A-1 UNITED AIRLINES ENGINE MAINTENANCE SYSTEM PAGE 5
09/07/10 COMPOSITION LIST FOR LOWER ASSEMBLY TIME. 08.01

REASON: REMOVAL REQUESTOR: PSEN440A PHONE: ORG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V665 MODULE TYPE MODULE NAME WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER CODE	CUST	
62697	V		APU331		UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V665	N656UA	APU	SFO	TURBINE DISK LIFE	09/07/10

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	WTY
GEARBOX ASSMBLY	A	P209	24248 TSN	32269 CSN	00871 TSMI	01521 CSMI		
			00871 TSMDPI	01521 CSMDPI				

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS				LIMITS THIS EMO	WTY	UNATH PRT
00987 001	SP-16264	UNK TSN	UNK CSN	00871 TSDPI				
GEARBOX HOUSING	3862699-3	01521 CSDPI						

* * * END OF REPORT FOR ENG - V MT - SN - 62697 * * *

UNITED

PSEN443A 09/07/10

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
LIMIT PLANNING REPORTS FOR UNIT

REASON: AT REMOVAL
SERIAL NUMBER 62697
ORDER NUMBER V665

ENGINE TYPE V
MODULE TYPE

REQUESTOR: REMOVAL
ENGINE NAME APU331
MODULE NAME

PHONE:
ORG:
CUST CODE UA
WORK CENTER 551

WORK CENTER. 551 TSN. 14955 CSN. 19404 TSLM. 00871 CSLM. 01521 TSLV. 00871 CSLV. 01521

SERIAL NBR	ET	MT	NAME	POWER	CUST	LIMIT TYPE	LIMIT VALUE	UNIT ACCUMULATION	REMAINING LIMIT VALUE	IN NLA UNIT	HARD LIMIT NLA LOWEST REMAINING
62697	V		APU331	200E	UA					X B	
										C	00170

ORDER NUMBER V665

REASON REMOVED OR MAINTENANCED
TURBINE DISK LIFE

DATE MAINT.
09/07/10

MODULE LIMIT SUMMARY - HARD AND THRESHOLD

NAME	MT	SERIAL NBR	COMMENTS	LIMIT TYPE	LIMIT VALUE	MODULE ACCUMULATION		REMAINING LIMIT VALUE	IN NLA UNIT	HARD LIMIT NLA LOWEST REMAINING
DRIVEN COMP SE	F	P-1902		X	007000	03430	TSMDPI	03570		
				X	007000	04973	CSMDPI	02027		
POWER SECTION	N	P-1983		X	005000	03430	TSMDPI	01570	X B	
				X	005000	04973	CSMDPI	00027	C	00170
GEARBOX ASSMBLY	A	P209		X	008000	00871	TSMDPI	07129		

REASON: AT REMOVAL — REQUESTOR: REMOVAL — PHONE: — ORG:
SERIAL NUMBER 62697 — ENGINE TYPE V — ENGINE NAME APU331 — CUST CODE UA
ORDER NUMBER V665 — MODULE TYPE — MODULE NAME — WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST
62697	V		APU331	200E	UA

ORDER NUMBER	REASON REMOVED OR MAINTENANCED	DATE MAINT
V665	TURBINE DISK LIFE	09/07/10

FUNCTION LIMITS BY NHA - HARD AND THRESHOLD

NHA NAME — MT — SERIAL NBR
DRIVEN COMP SE — F — P-1902

FUNC POS NAME	SERIAL NBR PART NUMBER	COMMENTS	LIMIT TYPE	LIMIT VALUE	FUNCTION ACCUMULATION	REMAINING VALUE
00989 001 IMPELLER-DRCOMP	1-801-1749 3822080-2	(1-03501-1749) FV879	X	010000	03430 TSDPI	06570

NHA NAME — MT — SERIAL NBR
POWER SECTION — N — P-1983

FUNC POS NAME	SERIAL NBR PART NUMBER	COMMENTS	LIMIT TYPE	LIMIT VALUE	FUNCTION ACCUMULATION	REMAINING VALUE
01009 001 T3 WHEEL ASSY	0734504903 3840022-4	NV376	H	025000	04973 CSN	20027
			B	012000	04973 CSN	07027
01007 001 DISK T2 TURBINE	9550104048 3840007-1	OLD S/N 9503504048	H	020000	16383 CSN	03617
			X	005000	06771 TSDPI	******
			X	005000	09031 CSDPI	******
01004 001 DISK T1 TURBINE	9535702680 3840019-1		H	020000	19830 CSN	00170
			X	005000	03430 TSDPI	01570
			X	005000	04973 CSDPI	00027
01014 001 NOZZLE SET PRIM	UA00459957 331NOZPRI1	NV376	A	006000	03430 TSDPI	02570
			B	003000	03430 TSDPI	******

REASON: AT REMOVAL
SERIAL NUMBER 62697
ORDER NUMBER V665

ENGINE TYPE V
MODULE TYPE

REQUESTOR: REMOVAL
ENGINE NAME APU331
MODULE NAME

PHONE:
ORG:
CUST CODE UA
WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST
62697	V		APU331	2006	UA

ORDER NUMBER V665

REASON REMOVED OR MAINTENANCED
TURBINE DISK LIFE

DATE MAINT
09/07/10

FUNCTION LIMITS BY NHA - HARD AND THRESHOLD

NHA NAME POWER SECTION
MT N
SERIAL NBR P-1983

FUNC NAME	POS	SERIAL NBR / PART NUMBER	COMMENTS	LIMIT TYPE	LIMIT VALUE	FUNCTION ACCUMULATION	REMAINING VALUE
01015	001	UA0045999SB	NV376	A	008000	03430 TSDPI	02570
NOZZLE SET SECD		331N02SEC1		B	003000	03430 TSDPI	******

UNITED

PSEN443A
09/07/10

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
THRESHOLD LIMIT REPORTS FOR UNIT

PAGE: 1
TIME: 08.02

REASON: AT REMOVAL — REQUESTOR: REMOVAL — PHONE: — ORG:
SERIAL NUMBER 62697 — ENGINE TYPE V — ENGINE NAME APU331 — CUST CODE UA
ORDER NUMBER V665 — MODULE TYPE — MODULE NAME — WORK CENTER 551

WORK CENTER. 551 TSN. 14955 CSN: 19404 TSLM: 00871 CSLM. 01521 TSLV. 00871 CSLV. 01521

SERIAL NBR	ET	MT	NAME	POWER	CUST	LIMIT TYPE	UNIT ACCUMULATION	NLA LIMITS THIS EMO
62697	V		APU331	200E	UA			X B

ORDER NUMBER	REASON REMOVED OR MAINTENANCED	DATE MAINT
V665	TURBINE DISK LIFE	09/07/10

MODULE THRESHOLD LIMIT SUMMARY

NAME	MT	SERIAL NBR	COMMENTS	LIMIT TYPE	MODULE ACCUMULATION	NLA LIMITS THIS EMO
POWER SECTION	N	P-1983				X B

REASON: AT REMOVAL — REQUESTOR: REMOVAL — PHONE: — ORG:
SERIAL NUMBER 62697 — ENGINE TYPE V — ENGINE NAME APU331 — CUST CODE UA
ORDER NUMBER V665 — MODULE TYPE — MODULE NAME — WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST
62697	V		APU331	200E	UA

ORDER NUMBER	REASON REMOVED OR MAINTENANCED	DATE MAINT
V665	TURBINE DISK LIFE	09/07/10

FUNCTION THRESHOLD LIMITS BY NHA

NHA NAME — MT — SERIAL NBR
POWER SECTION — N — P-1982

FUNC NAME / POS	SERIAL NBR / PART NUMBER	COMMENTS	LIMIT TYPE	LIMIT VALUE	FUNCTION ACCUMULATION
01007 001	9850104048	OLD S/N 9800804048	X	005000	06771 TSDPI
DISK T2 TURBINE	3840007-1		X	005000	09031 CSDPI
01014 001	UA00459957	NV376	B	003000	03430 TSDPI
NOZZLE SET PRIM	331NOZPRI1				
01015 001	UA00459958	NV376	B	003000	03430 TSDPI
NOZZLE SET SECD	331NOZSEC1				

UNITED

PSEN443A 09/07/10

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
DISC SHEET AND HARD LIMIT REPORT

REASON: AT REMOVAL
SERIAL NUMBER 62697
ORDER NUMBER V665

ENGINE TYPE V
MODULE TYPE

REQUESTOR: REMOVAL
ENGINE NAME APU331
MODULE NAME

PHONE:
CUST CODE UA
WORK CENTER 551

ORG:

WORK CENTER. 551 TSN. 14955 CSN. 19404 TSLM. 00871 CSLM 01521 TSLV. 00871 CSLV. 01521

SERIAL NBR	ET	MT	NAME	POWER	CUST	LIMIT VALUE	HARD LIMIT UNIT	ACCUMULATION	REMAINING VALUE	NLA LOWEST REMAINING VALUE
62697	V		APU331	200E	UA					C - 00170

ORDER NUMBER	REASON REMOVED OR MAINTENANCED	DATE MAINT
V665	TURBINE DISK LIFE	09/07/10

MODULE HARD LIMIT SUMMARY

NAME	MT	SERIAL NBR	COMMENTS	LIMIT VALUE	HARD LIMIT MODULE ACCUMULATION	REMAINING VALUE	NLA LOWEST REMAINING VALUE
POWER SECTION	N	P-1963					C 00170

REASON: AT REMOVAL
SERIAL NUMBER 62697
ORDER NUMBER V665

ENGINE TYPE V
MODULE TYPE

REQUESTOR: REMOVAL
ENGINE NAME APU331
MODULE NAME

PHONE:
CUST CODE UA
WORK CENTER 551

ORG:

SERIAL NBR	ET	MT	NAME	POWER	CUST
62697	V		APU331	200E	UA

ORDER NUMBER	REASON REMOVED OR MAINTENANCED	DATE MAINT
V665	TURBINE DISK LIFE	09/07/10

FUNCTION HARD LIMITS BY NHA

NHA NAME MT SERIAL NBR

POWER SECTION N P-1983

FUNC POS NAME	SERIAL NBR PART NUMBER	HARD LIMIT LIMIT VALUE	FUNCTION ACCUMULATION		REMNG VALUE	REPLACE YES	REPLACE NO	ASSIGNED SERIAL NO	REM HRS	LIFE CYLS	DISC DISP
01009 001 T3 WHEEL ASSY	0734504903 3840022-4	025000	04878	CSN	20027						
01007 001 DISK T2 TURBINE	9650104048 3840007-1	020000	16383	CSN	03617						
01004 001 DISK T1 TURBINE	9835702680 3840019-1	020000	19830	CSN	00170						

REASON: AT REMOVAL
SERIAL NUMBER 62697 ENGINE TYPE V REQUESTOR: REMOVAL PHONE: ORG:
ORDER NUMBER V665 MODULE TYPE MODULE NAME CUST CODE UA
EFFECTIVE MODEL V-UA-ESV WORK CENTER 551

ENGINE NAME APU331

ALL LIFE LIMITED PARTS MEET BUILD LIMITS

TIME REMAINING DOES NOT MEET TEARDOWN GOALS

FUNC NBR	NOUN	SERIAL NUMBER	PART NUMBER	HOURS GOAL /REMAIN	CYCLES GOAL /REMAIN
01004	DISK T1 TURBINE	9835702680	3840019-1	NONE /	3500/00170

*** END OF REPORT FOR ENG - V MT - SN - 62697

*** END OF REPORT ***

UNITED

PSEN442A-1 UNITED AIRLINES ENGINE MAINTENANCE SYSTEM PAGE: 1
11/05/10 COMPOSITION LIST FOR UNIT TIME: 21.30

REASON: INSTALLATION REQUESTOR: MOCOMP PHONE: ORG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V665 MODULE TYPE MODULE NAME WORK CENTER 551

WORK CENTER. 551 TSLV. 00871 CSLV. 01521 TSLM. 00871 CSLM. 01521

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697	V		APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V665	N656UA	APU	SFO	TURBINE DISK LIFE	09/07/10

UNIT ACCUMULATIONS

		LIMITS THIS EMO	WTY
14955 TSN	19404 CSN		

UNIT'S COMPOSITION

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	WTY
DRIVEN COMP SE	F	P-1166	24547 TSN	32707 CSN	00000 TSMI	00000 CSMI		
			00000 TSMDPI	00000 CSMDPI				
POWER SECTION	N	P-1266	22587 TSN	28226 CSN	00000 TSMI	00000 CSMI		
			00000 TSMDPI	00000 CSMDPI				
GEARBOX ASSMBLY	A	P209	24248 TSN	32269 CSN	00000 TSMI	00000 CSMI		
			00871 TSMDPI	01521 CSMDPI				

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	WTY	UNATH PRT
05650 001	P-1122	UNK TSN	UNK CSN	00871 TSDPI			
FAN -SHROUDED R	3615959-6	01521 CSDPI					

UNITED

PSEN442A-1 UNITED AIRLINES ENGINE MAINTENANCE SYSTEM PAGE 2
11/05/10 COMPOSITION LIST FOR LOWER ASSEMBLY TIME 21.30

REASON: INSTALLATION REQUESTOR: MOCOMP PHONE: ORG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V665 MODULE TYPE MODULE NAME WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST
62697	V		APU331	200E	UA UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V665	N656UA	APU	SFO	TURBINE DISK LIFE	09/07/10

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	LIMITS WTY
DRIVEN COMP SE	F	P-1166	24547 ISN 00000 TSNDPI	32707 CSN 00000 CSNDPI	00000 TSNI	00000 CSNI		

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	LIMITS WTY	UNATH PRT
00988 001 IGV ASSY VARIBL	UA0048t274 3810231-21	UNK TSN 00000 CSDPI	UNK CSN 00823 TSS-SDSS	00000 TSDPI			
00989 001 IMPELLER-DRCOMP	0365103273 3822080-3	06785 TSN 00000 CSDPI	09969 CSN	00000 TSDPI		YES	
05780 001 BRNG-D/C THRUST	08-S-08639 3613827-1	00000 TSN 00000 CSDPI	00000 CSN	00000 TSDPI		YES	
05746 001 BRNG-D/C ROLLER	09-0-17651 3822099-1	00000 TSN 00000 CSDPI	00000 CSN	00000 TSDPI		YES	

REASON: INSTALLATION REQUESTOR: MOCOMP PHONE: ORG:
SERIAL NUMBER 82697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V665 MODULE TYPE MODULE NAME WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER CODE	CUST
82697		V	APU331		UA UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V665	N656UA	APU	SFO	TURBINE DISK LIFE	09/07/10

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	LIMITS WTY
POWER SECTION	N	P-1266	22587 TSN 00000 TSMDPI	28226 CSN 00000 CSMDPI	00000 TSMI	00000 CSMI		

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	LIMITS WTY	UNATH PRT
05719 001 BRNG,P/S-THRUST	00224 3613827-1WE	00000 TSN 00000 CSDPI	00000 CSN	00000 TSDPI		YES	
05720 001 BRNG,P/S-ROLLR	09-0-14166 3822099-1	00000 TSN 00000 CSDPI	00000 CSN	00000 TSDPI		YES	
00993 001 C1 COMP IMPELLR	9-501-2130 3822067-2	UNK TSN 00000 CSDPI	UNK CSN	00000 TSDPI			
00995 001 C2 COMP IMPELLR	0-3501-896 3822068-1	22567 TSN 00000 CSDPI	28143 CSN	00000 TSDPI			
01002 001 COMB CHMBANNULR	15-229332R 3830051-5	UNK TSN 00000 CSDPI	UNK CSN	00000 TSDPI			
01005 001 T1 STATOR VANE	09-3-00305 3844038-4	00000 TSN 00000 CSDPI	00000 CSN	00000 TSDPI		YES	
01009 001 T3 WHEEL ASSY	02345102I5 3840022-4	07257 TSN 00000 CSDPI	14688 CSN	00000 TSDPI			
01007 001 DISK T2 TURBINE	0350101634 3840007-1	10317 TSN 00000 CSDPI	08218 CSN	00000 TSDPI		YES	
01004 001 DISK T1 TURBINE	02357024I7 3840019-1	06489 TSN 00000 CSDPI	11653 CSN	00000 TSDPI		YES	
01014 001 NOZZLE SET PRIM	UA00489495 331NOZPRI1	00000 TSN 00000 CSDPI	00000 CSN	00000 TSDPI		YES	

REASON: INSTALLATION
SERIAL NUMBER 62697
ORDER NUMBER V665

ENGINE TYPE V
MODULE TYPE

REQUESTOR: MOCOMP
ENGINE NAME APU331
MODULE NAME

PHONE:

ORG:

CUST CODE UA
WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V665	N656UA	APU	SFO	TURBINE DISK LIFE	09/07/10

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS	LIMITS THIS EMO	WTY	UNATH PRT
01015 001	UA00489503	UNK TSN UNK CSN 00000 TSOPI			
NOZZLE SET SECD	331NOZSEC1	00000 CSOPI			

REASON: INSTALLATION REQUESTOR: MOCOMP PHONE: ORG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V665 MODULE TYPE MODULE NAME WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697		V	APU331	2000	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V665	N656UA	APU	SFO	TURBINE DISK LIFE	09/07/10

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	LIMITS WTY
GEARBOX ASSMBLY	A	P209	24248 TSN	32269 CSN	00000 TSMI	00000 CSMI		
			00871 TSMOPI	01521 CSMOPI				

FUNC NAME	POS	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	LIMITS WTY	UNATH PRT
00887 001		9P-16264	UNK TSN	UNK CSN	00871 TSDPI			
GEARBOX HOUSING		3562699-3	01521 CSDPI					

* * * END OF REPORT FOR ENG - V MT - SN - 62697 * * *

E 4/23/15
2.53:17 PM

Index Form

Doc. Type:	TAG
Tracking Number:	NP0982303
Activity Date:	10/28/10
Doc Number:	EON: V665
Ref Doc:	
Aircraft Number:	
MFG P/N:	
M&E :	
S/N:	2697
OP Step:	
Station:	
ATA Code:	
Fleet:	
Vendor Code:	
Package Type:	ESV
Package Date:	10/28/10
Comments:	APU-200
PREPPED BY :	RITA PAZ — YOUR NAME HERE
PREPPED DATE:	4/3/2015 — TODAY'S DATE

UAL ENGINE / APU ROM Index
Vendor Imaging Systems Control Sheet Version

Section	Item		Description
1	01	☐	Certification form for Scan
2	01	☑	Serviceable Engine & Module Tag
	02	☑	Engine I & R Tags
	03	☑	Module I & R Tags
	04	☐	Non Routine's
	05	☐	Engine Customer Maintenance Tags
	06	☐	Module Customer Maintenance Tags
3	01	☐	Engine Job Instruction Cards
4	01	☐	Module Job Instruction Cards

A	B	C	D	E	F	G
H	I	J	K	L	M	N
P	Q	R	S	T	U	V
W	X	Y				

5	01	☐	COA'S
6	01	☐	Engine Inspection & Condition Sheet, Miscellaneous Documents
	02	☐	Fulfillment Center ICS
7	01	☐	Module Inspection & Condition Sheet

A	B	C	D	E	F	G
H	I	J	K	L	M	N
P	Q	R	S	T	U	V
W	X	Y				

8	01	☐	AD Verification - Checklist
	02	☐	Unit Hard Limit Report
9	01	☐	Final Accountability and Test Cell JIC's
10	01	☐	D-199 (Records Certification)
	02	☐	8130 or ENGVST meter (Engine Certification)
11	01	☐	Customer Documents
12	01	☐	Removal Composition Report
	02	☐	Limit Planning Report
	03	☐	Installation Composition Report

FV654 1366

UNITED
I & R TAG

PCN	PART NO.	NAME	DASHED NO OFF	SER NO IF NO DASH
265-9103-38040002-11		LOAD COMPRESSOR	DASH NO ON —	MFG SER NO P-1166

UT86 Ø

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
		E74	552	LEAD 552								552			
1366	X	1366	7066	1962								DATE SERVICEABLE 10-11-10		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		V665/62697	P	APU	10 25 10	SFOLB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME
2 ☐ TROUBLE
3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO

9393

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY I209A
ON 4-66 V665

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE_____ DATE_____ SIGNATURE AND FILE NO _____

NV656 I363

UNITED
I & R TAG

PCN	PART NO.	NAME	DASHED NO OFF	SER NO IF NO DASH
265·9102·3801003-8·		Power Section	DASH NO ON —	MFG SER NO P-1266

UTSO: Ø

MAINT SHOPS	PS												HOME SHOP	SHIP CONT	BATCHABLE	R
I363	X	I363	552										552			

DATE SERVICEABLE: 10-20-10 | QUANTITY: 1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		V665 / 62697	P	ARU	10/25/10	SFOPB

REMOVAL CODE SEE BACK OF YELLOW STUB
1 ☐ TIME
2 ☐ TROUBLE
3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE: INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.: [signature] 93833

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY 1209A
ON [illegible]

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE. BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO.	NAME	DASHED NO OFF	SER NO IF NO DASH
265·0587	3810213-8	PLENUM-UPPER	DASH NO ON —	MFG SER NO — / ~~UTCO~~ Ø

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	
		E74										552			
I366	X	I366										DATE SERVICEABLE 9-22-10		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	* STA
		V665/62697	P	APU	10/25/10	Stor

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO

93833

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TA

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

RCS CONTROLLED PART ORD

UNITED

I & R TAG

P/N	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
643 - 0130	3616848-2	VALVE	DASH NO ON	MFG SER NO 2319 / UTSO

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE
	PS	263										263	000	N
	X	Vendor Overhauled										DATE SERVICEABLE 10-8-10		QUANTITY 1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		√665 / 62697	P	APU	10,26,10	SFOPB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

Uninstalled

RETURN UNSERVICEABLE UNIT TO ORDJJV

SIGNATURE (OR STAMP) & FILE NO.

ACKNG 101175

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA **OVERHAULED BY OSV/ VENDOR WORK REC & 8130-3 ON FILE PO# S982-631-0696**

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

UNITED

I & R TAG

PCN	PART NO.	NAME	DASHED NO OFF	SER NO IF NO DASH
	671-0050	Exciter	DASH NO ON	MFG SER NO 980218000364 / UTSO

MAINT SHOPS	PS												HOME SHOP	SHIP CONT	BATCHABLE	R
7066	X	7066											552			

DATE SERVICEABLE	QUANTITY
OCT 21 2010	1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		V665 / 62697	P	AFV	10 26 10	SFOPB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

installed

SIGNATURE (OR STAMP) & FILE NO

C. FONG 601175

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA: Repaired by OSV 2006

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE_____ DATE_____ SIGNATURE AND FILE NO _____

PCS CONTROLLED PART

PCN	PART NO	NAME	DASH NO OFF	SER NO IF NO DASH
265	9157	MR49115 MODULE	DASH NO ON -92	MFG SER NO SX5564A / UTSO G

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE
	0	976	N3E	875								875	000	N C
	X	VENDOR REPAIRED										DATE SERVICEABLE		QUANTITY

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE	POSITION	DATE	STA
		V665 / 62697	P	AOV	10 26 10	SFOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

B-767 FRM/FIM- - - - - - - - - -

Installed

SIGNATURE (OR STAMP) & FILE NO

J.V. FONG 10/17/5

REPORTABLE UNIT-MRDATA TRANSACTION REQUIRED

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIRED BY OSV VENDOR WORK REC AND 8130-3 ON FILE P/O # 9188761179

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL? 5 ☐ YES 6 ☐ NO

IF YES WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAPS/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

I209A
NV666

TT - 07257
TC - 14686
TCR-10314

I209A

UNITED
I & R TAG

PCN	PART NO	NAME	DASHED NO OFF / DASH NO ON	SER NO IF NO DASH / MFG SER NO	UTSO
265-0223	3840022-4	Wheel Assy T3		02345/0215	Ø

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE
		E24										E24		
I209A	X	I209A										DATE SERVICEABLE		QUANTITY
												10/5/10		1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV656/61590	P	APU	10,15,10	STOPB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME
2 ☐ TROUBLE
3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

93833

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY I193A
ON NV656 I193A

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE_____ DATE_____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO.	NAME	DASHED NO OFF	SER NO IF NO DASH
265·0491	3844053-1	CASE-COMB	DASH NO ON —	MFG SER NO —

UTSO: Ø

MAINT SHOPS	PS												HOME SHOP	SHIP CONT	BATCHABLE	R
1366	X	1366											552			

DATE SERVICEABLE	QUANTITY
8·27·10	1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV656/96590	P	APU	10 15 10	SFO

INSTALLED ONLY

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

SIGNATURE (OR STAMP) & FILE NO

93837

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

UNITED

I & R TAG

PCN	PART NO.	NAME	DASHED NO OFF	SER NO IF NO DASH
265.0484	3826262-1	DIFFUSER-C2	DASH NO ON —	MFG SER NO — / ~~UTSO~~ Ø

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
		E74										552			
I363	X	I366										DATE SERVICEABLE 8-24-10		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV656/61590	P	MPH	10/15/10	STORE

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE: INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

93833

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

NV663 1209A

UNITED
I & R TAG

PCN	PART NO.	NAME	DASHED NO OFF	SER NO IF NO DASH
265-3071	3810259-3	Hsng Inlet	DASH NO ON	MFG SER NO / UTSO: Ø

MAINT SHOPS	PS											HOME SHOP: E74	SHIP CONT	BATCHABLE	R
1209A	X	1209A										DATE SERVICEABLE: 9-10-11		QUANTITY: 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV656/6590	1	APU	10 15 10	SFOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

93833

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED.

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE_____ DATE_____ SIGNATURE AND FILE NO

UNITED

I & R TAG

PCN	PART NO.	NAME	DASHED NO OFF	SER NO IF NO DASH
265·0291·3870023-1		MOUNT-AFT	DASH NO ON —	MFG SER NO —

UTSG	MAINT SHOPS	PS											552 HOME SHOP	SHIP CONT	BATCHABLE
Ø	I366	X	I366										DATE SERVICEABLE 8 25 10		QUANTITY 1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NU656/61590	P	APU	10 15 10	570 PB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO

93833

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TA

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265·0594	3613194-7	HEATSHIELD	DASH NO ON —	MFG SER NO — / UTSO ∅

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	
I366	X	I366										552			

DATE SERVICEABLE	QUANTITY
8·20·10	1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV656/61590	P	APU	10,15,10	STOPB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO

93833

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TA

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE_____ DATE_____ SIGNATURE AND FILE NO._____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265 3205 · 5	844040-5	STATOR AY - T/	DASH NO ON	MFG SER NO / ~~UTCO~~ Ø

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
		E74										532			
I366	X	I366										DATE SERVICEABLE 9.21.10		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO.	NHA CODE*	POSITION	DATE	STA
		NV656 / 61590	P	APU	10/5/10	[3 To B

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

93833

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

UNITED
I & R TAG

PCN	PART NO.	NAME	DASHED NO OFF	SER NO IF NO DASH
265·0238	3844018-1	STATOR ASY-TS	DASH NO ON —	MFG SER NO — UTCO Ø

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
		E74										552			
I366	X	I366										DATE SERVICEABLE 9 21 10		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV66A / 61590	P	APU	10 OCT 10	STA PB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ON A/C

SIGNATURE (OR STAMP) & FILE NO

93833

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE_____ DATE_____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-3208	3844011-9	STATOR AY - T2	DASH NO ON	MFG SER NO: — / UTSO: 0

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
T193A	X	E74 T193A										E74			
												DATE SERVICEABLE: 9/13/10		QUANTITY: 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NU656 / 61590	P	APU	10 15 10	STOR

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

93833

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE. BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

UNITED

I & R TAG

PCN	PART NO.	NAME	DASHED NO OFF	SER NO IF NO DASH
265-3099	331N0Z5EC1	FUEL N0221.5EC.	DASH NO ON	MFG SER NO: UA00489503 / UTSO: 0

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
		E74										E74			
I193A	X	I193A										DATE SERVICEABLE: 10/12/10		QUANTITY: 1 SET	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV656 / 61590	P	APU	10/15/10	570PB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE.

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

93833

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY I1934
ON NV656 I1934

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE_____ DATE_____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF / DASH NO ON	SER NO IF NO DASH / MFG SER NO	UTSO
	265-3098 331	NOZ PRI 1 SET NOZZL. PRI		UA00489495	NEW

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE
I193B	X	I193A										E74		

DATE SERVICEABLE: 10/11/10 | QUANTITY: 1 SET

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV656/61590	P	APU	10/15/10	BFO PB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME
2 ☐ TROUBLE
3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE: INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.: 93833

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TA

SERVICEABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY I193A
ON NV656 I193A

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED
I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-3206	-3844038-4-	VANE-T1 STATOR	DASH NO ON —	MFG SER NO 09-3-00305 / ~~UT30~~ NEW

MAINT SHOPS	PS											552 HOME SHOP	SHIP CONT	BATCHABLE	R
I366	X	I36C										DATE SERVICEABLE 9 21 10		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
			P	APU	9,21,10	SFOPB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME
2 ☐ TROUBLE
3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

USED VANE TO ASSEMABLE, T-1 STATOR ASSY →
265-3205-(7347

SIGNATURE (OR STAMP) & FILE NO

7347 10/25/16

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

AC 4512 1366

ON LOGGED BY I193A

ON NV1656 I193A

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

UNITED

I & R TAG

PCN	PART NO.	NAME	DASHED NO OFF	SER NO IF NO DASH
265-3097	3830051-5	COMBUSTOR	DASH NO ON	MFG SER NO: 15-229332R; UTSO: E

MAINT SHOPS	PS											HOME SHOP: E74	SHIP CONT	BATCHABLE
I193A	X I193A											DATE SERVICEABLE: 10/11/10		QUANTITY: 1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV656/61590	P	APU	10 15 10	STOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO

93833

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TA

SERVICEABLE UNIT REMARKS IN THIS AREA

(S/N 150331-229332R) I193A
FAA 8130-3 W/O# S9450048620 ATTACHED I193A

ON LOGGED BY I193A
ON NV656 I193A

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-3238	3613827-1WE	BEARING	DASH NO ON	MFG SER NO 00224 / UTSO NEW

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
I193A	X	I193A										E74			
												DATE SERVICEABLE 10/11/10		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV656/61590	P	APU	10/15/10	STOLB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

93833

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS *IN THIS AREA*

FAA 8130-3 w/o# 26532380013 Attached

ON LOGGED BY ___
ON NV656 ___

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-0462	3822099-1	BEARING	DASH NO ON	MFG SER NO 09-0-14166 UTSO NEW

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
I193A	X	I193A										E74			

DATE SERVICEABLE	QUANTITY
10/11/10	1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV656/61590	P	APU	10/15/10	SFOPB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO

93833

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED

UNITED AIRLINES IDENTIFICATION & ROUTING TA

SERVICEABLE UNIT REMARKS IN THIS AREA I193A (S/N 09-162370-14166) I193A
I193A FAA 8130-3 W/O S9450048620 ATTACHED I193A

ON LOGGED BY I193A
ON NV656 I193A

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

IV654 I366

UNITED
I & R TAG

PCN	PART NO.	NAME	DASHED NO OFF	SER NO IF NO DASH
265	3012 · 381023 1-21 ·	IGV Assy	DASH NO ON 4200481274	MFG SER NO —

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
I366	X	I366	7066	552								552		Ø	
												DATE SERVICEABLE 10-5-10		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		FV654/6021	P	APU	10,8,10	SFOAB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME
2 ☐ TROUBLE
3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.
7066 10405

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TA

SERVICEABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY I209A
ON FV654

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION. 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-0084	3826154-1	MOUNT-J6V ACT	DASH NO ON	MFG SER NO — UTSO e

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
I193A	X	I193A										DATE SERVICEABLE 9/23/10		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		FV 654/60221	4	APU	10/8/10	SFORR

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY.

SIGNATURE (OR STAMP) & FILE NO.

7068 100438

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

LOT # 303824 I193A

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE_____ DATE_____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265.0059	3822080-3	Impeller - C/C	DASH NO ON —	MFG SER NO 0365703273 / ~~UTSO~~ 0

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
		E74										552			
L366	X	L366										DATE SERVICEABLE 8.17.10		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		FV 659/60221	P	APU	08 10	SFOPB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

7066 100405

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA LUT 303435 1366

ON LOGGED BY I209A
ON FV654

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES

[redacted]

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED
I & R TAG

PCN	PART NO.	NAME	DASHED NO OFF	SER NO IF NO DASH
	3613827-1	BRNG.	DASH NO ON	MFG SER NO: 09-5-08639 NEW; UTSO

MAINT SHOPS	PS												HOME SHOP: E74	SHIP CONT	BATCHABLE	R
I209A	X	I209A											DATE SERVICEABLE: 10/6/10		QUANTITY: 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK. THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		FV654 / 60221	P	APU	10, 8, 10	SFOPB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME
2 ☐ TROUBLE
3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

7068 100435

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY 1209A
ON FV654

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE_____ DATE_____ SIGNATURE AND FILE NO _____

UNITED
I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	DASH NO ON	SER NO IF NO DASH	MFG SER NO	UTSO
	3822099-1	BRNG				09-0-1765	NEW

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
	X											DATE SERVICEABLE		QUANTITY	
		EZH										EZH			
												8/6/10		1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		FV 605 4/60221	P	APU	10/8/10	SFOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO

7068 100435

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY 1209A
ON FV654

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE_____ DATE_____ SIGNATURE AND FILE NO _____

UNITED
I & R TAG

PCN	PART NO.	NAME	DASHED NO OFF	SER NO IF NO DASH
265 0457	3822067-2	Impeller-C1	DASH NO ON –	MFG SER NO 9-501-2130

MAINT SHOPS	PS	E74	Tail 552	Read 662							552 HOME SHOP	SHIP CONT	BATCHABLE	R
I366	X	I366	7799	1962							DATE SERVICEABLE 8 31 10		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV656/61590	P	APU	10/5/10	STOB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

93853

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TA

SERVICEABLE UNIT REMARKS IN THIS AREA

LVT 303788 1386

ON LOGGED BY I103A

ON NV656 I103A

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

UNITED

I & R TAG

PCN	PART NO.	NAME	DASHED NO OFF	SER NO IF NO DASH
265 0210 ·	3822068-1	Impeller-C2	DASH NO ON ~	MFG SER NO 0-3501-896

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
		E74	BAL 552	Lead 552								552			
1366	X	1366	7799	1962								DATE SERVICEABLE 8 31 10		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV656/61590	P	APU	10/15/10	SFOPS

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

93833

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

LOT 303710 I36K

ON LOGGED BY I193A

ON NV656 I193A

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

I209A
NV661

TT - 6469
TC - 11653
TCR - 08347

I209A

UNITED
I & R TAG

PCN	PART NO	NAME	DASHED NO OFF / DASH NO ON	SER NO IF NO DASH / MFG SER NO	UTSO
265-0224	3840019-1	Disk T1		0235702427	0

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE
		ETH										ETH		
I209A	X	I209A										DATE SERVICEABLE		QUANTITY
												10/5/10		1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV65C/61590	A	R-PU	10,5,10	SFOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME
2 ☐ TROUBLE
3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

used disk to build T-1 Whl Assy - 265 3183

SIGNATURE (OR STAMP) & FILE NO.

7790 050785

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY I193A
ON NV656 I193A

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

PCN	PART NO	NAME	DASH NO OFF	SER NO IF NO DASH	
265-3183	3840002-5	T-1 Wheel Assy	DASH NO ON	MFG SER NO	UTSO

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE
		BAL 552	LCOS 552									552		-
L962	X	L962	L962									DATE SERVICEABLE		QUANTITY
												10-6-10		1 EA.

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SRECS & CONFORM TO CURRENT FAR S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE *	POSITION	DATE	STA
		NV656/61590	P	APU	10/5/10	SFOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

SIGNATURE (OR STAMP) & FILE NO

Doug 93033

REPORTABLE UNIT-MRDATA TRANSACTION REQUIRED

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL? 5 ☐ YES 6 ☐ NO

IF YES WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP GREEN TINTED LINE OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAPS/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO.	NAME	DASHED NO OFF	SER NO IF NO DASH
265·0222	3840007-1	DISK-T2	DASH NO ON —	MFG SER NO 03501014634

UTCO Ø

MAINT - SHOPS	PS												HOME SHOP	SHIP CONT	BATCHABLE	R
		E74	L000 651										552			
I366	X	I366	L962										DATE SERVICEABLE 8·17·10		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO.	NHA CODE*	POSITION	DATE	STA
		NV656/61590	A	APU	9,20,10	SFOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

Used disk to build T-2 Wheel Assy 265-0221

SIGNATURE (OR STAMP) & FILE NO.

LTPB 050788

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED

UNITED AIRLINES IDENTIFICATION & ROUTING TA

SERVICEABLE UNIT REMARKS IN THIS AREA

Lor 303983 I36

ON LOGGED BY I193A

ON NV656 I193A

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE. BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

PCN	PART NO	NAME	DASH NO OFF	SER NO IF NO DASH
265-02-21	3840036-1 TJ Wheel Assy		DASH NO ON	MFG SER NO / UTSO

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE
		DAL 552	Lead 552									552		
L962	X	L962	L962									DATE SERVICEABLE 7-21-10		QUANTITY 1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC S & CONFORM TO CURRENT FAR S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE *	POSITION	DATE	STA
		NU656 / 6459U	P	AFU	10 15 10	SFOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

SIGNATURE (OR STAMP) & FILE NO

93833

REPORTABLE UNIT-MRDATA TRANSACTION REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL? 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAPS/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO.	NAME	DASHED NO OFF	SER NO IF NO DASH
265 3147	3810224-12	Housing-16V	DASH NO ON	MFG SER NO ~~UT30~~ Ø

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
I366	X	E74 I366										552			

DATE SERVICEABLE	QUANTITY
9 21 10	1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		IV654/6022	P	APU	10 4 10	SFOB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE:

Installed Orig

SIGNATURE (OR STAMP) & FILE NO

7066 1004635

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

E 4/23/15
2:48.25 PM

Index Form

Doc. Type:	CD
Tracking Number:	NP0982302
Activity Date:	12/14/09
Doc Number:	EON: V607
Ref Doc:	
Aircraft Number:	
MFG P/N:	
M&E :	
S/N:	2697
OP Step:	
Station:	
ATA Code:	
Fleet:	
Vendor Code:	
Package Type:	ESV
Package Date:	12/14/09
Comments:	APU-200
PREPPED BY :	RITA PAZ — YOUR NAME HERE
PREPPED DATE:	4/3/2015 — TODAY'S DATE

UAL ENGINE / APU ROM Index

Vendor Imaging Systems Control Sheet Version

Section	Item		Description
1	01	☑	Certification form for Scan
2	01	☐	Serviceable Engine & Module Tag
	02	☐	Engine I & R Tags
	03	☐	Module I & R Tags
	04	☐	Non Routine's
	05	☐	Engine Customer Maintenance Tags
	06	☐	Module Customer Maintenance Tags
3	01	☑	Engine Job Instruction Cards
4	01	☑	Module Job Instruction Cards

A	B	C	D	E	F	G
H	I	J	K	L	M	N
P	Q	R	S	T	U	V
W	X	Y				

5	01	☐	COA'S
6	01	☑	Engine Inspection & Condition Sheet, Miscellaneous Documents
	02	☐	Fulfillment Center ICS
7	01	☑	Module Inspection & Condition Sheet

A	B	C	D	E	F	G
H	I	J	K	L	M	N
P	Q	R	S	T	U	V
W	X	Y				

8	01	☑	AD Verification - Checklist
	02	☑	Unit Hard Limit Report
9	01	☑	Final Accountability and Test Cell JIC's
10	01	☑	D-199 (Records Certification)
	02	☑	8130 or ENGVST meter (Engine Certification)
11	01	☐	Customer Documents
12	01	☑	Removal Composition Report
	02	☑	Limit Planning Report
	03	☑	Installation Composition Report

UNITED

RECORDS OF MAINTENANCE

CERTIFICATION FORM

SFOMR/PA Certifies that the *Records of Maintenance* for:

Engine S/N 62697 Order NBR V607

Fleet APU Customer UA Vendor _____

Visit Type ESV Complete or Found As Is (*)and ready for storage and/or scanning (circle which one applies).

Signed Rita Paz
(SFOMR - Maintenance Records Specialist)

*Signed _____
(SFOMR - Maintenance Records Supervisor)

*Dual countersignature by supervisor is needed on this form when "found as is" is circled above.

Date 04-03-15

BOX #

MAYRA FLORES /

DEC 14 2009

D199

Checklist for 331-200 (V)

EON: V607 **S/N:** 62697 **DATE:** 12/14/09

JOB NUMBERS		COVER PAGE	CHECK
V0100.0	V607	BASE CHECK	
V0103.0	V	*** ENGINE TEST ***	FINAL
V1000.0	V607	ENGINE DISASSY/ASSY	
V2000 0	NV607	POWER SECTION	
V2005 0	SV607	TURBINE SCAVENGE PUMP ASSY	
V3000 0	AV578	ACCY GEARCASE STARTER CLUTCH ASSY	
V5000 0	PV	OIL PUMP 8130	
V6000 0	FV607	LOAD COMPRESSOR	
V6005 0	IV607	IGV ASSY	
V8000 0		ENGINE BALANCE (Optional)	
V7000 0	LV	STARTER CLUTCH ASSY (Use if different from AV)	

COA	V607	☒ Scheduling Report / ☐ Job Card
COA	NV607	☒ Scheduling Report / ☐ Job Card
COA	AV578	☒ Scheduling Report / ☐ Job Card
COA	FV607	☒ Scheduling Report / ☐ Job Card

☐ 8130 / ☐ I&R / ☐ LIFE CARD	T1	3840019-1/265-0224 WHEEL ONLY	
☐ 8130 / ☐ I&R / ☐ LIFE CARD	T2	3840007-1/265-0222 WHEEL ONLY	
☐ 8130 / ☐ I&R / ☐ LIFE CARD	T3	3840022-4/265-0223 WHEEL ONLY	
☐ 8130 / ☐ I&R / ☐ LIFE CARD	IMPLR-C1	3822067-2/265-0457	DIDN'T ROUTE
☐ 8130 / ☐ I&R / ☐ LIFE CARD	IMPLR-C2	3822068-1/265-0210	
☐ 8130 / ☐ I&R / ☒ LIFE CARD	IMPLR	3822080-3/265-0059	

V1522.0 Give to Inspection to make serviceable (S)
To show in ENGMOD/ENGRVW
For issuance of D199

NOTE TO MR 1 30PM

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, BASE CHECK

REV. 4/26/07

V607	62697	V0100.0
ORDER NO	ENGINE NO	JOB NO

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '~' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT

		V0002.0	- NON-ROUTINE ACCOUNTABILITY
	S022	V0005.0	PARTS AS-RECVD INVENTORY- CUST/LEASE
		V0010.0	MR UNIT/TAG ACCOUNTABILITY LIST
S022	371TL	V0101.0	BASE CHECK - PRELIMINARY SERVICE
		V0101.1	BASE CHECK - FINAL SERVICE
	S022	V0101.2	CSV - C CHECK
		V0101.5	BASE CHECK - PRELIM. SERVICE-CUSTOMER
		V0101.6	BASE CHECK - FINAL SERVICE-CUSTOMER
S022	371TL	V0102.0	BASE CHECK INSPECTION
S022	371TL	V0102.1	M.I.S. CLEAN UP
	S022		

1

Job Instruction Card

331-200 COVER PAGE, BASE CHECK

REV. 4/26/07

V607	62697	V0100.0
ORDER NO	ENGINE NO	JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

S022

2 no cot S022

~~S022~~

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

SIGNATURE: S022 DATE: 12/14/09

END JOB V0100.0 REVISED 4/26/07

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK - PRELIMINARY SERVICE

REV. 5/14/09

V607	62697	V0101.0
ORDER NO	ENGINE NO	JOB NO

NOTE - SET TORQUE WRENCH TO THE TORQUE VALUE SPECIFIED. IF NO TORQUE VALUE IS SPECIFIED, USE STANDARD TORQUE PER GN-8-0-2-14.

CAUTION - SCRAP ANY SELF LOCKING NUT WHICH CAN BE TURNED PAST ITS LOCKING FEATURE BY HAND.

WARNING - REMOVAL OF CHIP DETECTOR HOUSING WILL CAUSE OIL TO DRAIN FROM APU. HOT OIL CAN CAUSE BURNS. TAKE NECESSARY PRECAUTIONS.

M 7779 1. -----C CHECK REQUIRED ITEM----- REMOVE THE FOLLOWING AND CHECK FOR METAL. IF METAL FOUND NOTIFY INSPECTION AND REQUEST JIC V0102.1 FROM SCHEDULE CENTER. REMOVE INLET SCREEN, T-DUCT AND SURGE VALVE ELBOW FOR BOROSCOPE ACCESS. IF METAL NOT FOUND, PROCEED TO NEXT SIGNOFF.

A. GEARBOX MAGNETIC CHIP DETECTOR AND CHIP DETECTOR HOUSING.
METAL FOUND YES 7779 NO _____

B. GENERATOR MAGNETIC CHIP DETECTOR AND CHIP DETECTOR HOUSING.
METAL FOUND YES _____ NO 7779

EMAC 60 4927 004AA 1AC
EMAC 50 4927 004JA 1A
MRB 49-016 - 757
MRB 49-014 - 767

M 7779 2. -----C CHECK REQUIRED ITEM----- REMOVE THE FOLLOWING IF INSTALLED, AND CHECK FOR METAL. IF METAL FOUND, NOTIFY INSPECTION AND REQUEST JIC V0102.1 FROM SCHEDULE CENTER. IF METAL NOT FOUND, PROCEED TO NEXT SIGNOFF.

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

A. TURBINE MAGNETIC CHIP DETECTOR AND CHIP DETECTOR HOUSING.
METAL FOUND YES _____ NO 7779

B. COMPRESSOR MAGNETIC CHIP DETECTOR AND CHIP DETECTOR HOUSING.
METAL FOUND YES _____ NO 7779

EMAC 60 4927 004AE 1A
EMAC 50 4927 004JB 1A
MRB 49-063 - 757

MRB 49-059 - 767

M 7779 3. -----ENGINE SHOP VISIT REQUIRED ITEM-----
REMOVE MONOPOLE AND CHECK FOR METAL AND STRIKE. IF *METAL OR STRIKE FOUND, NOTIFY INSPECTION AND* REQUEST JIC V0102.1 FROM SCHEDULE CENTER.
IF NEITHER FOUND, PROCEED TO NEXT SIGN-OFF.

METAL FOUND YES _____ NO 7779
STRIKE YES _____ NO 7779

M 7779 4. -----C CHECK REQUIRED ITEM----- VISUALLY CHECK MAIN OIL FILTER DIFFERENTIAL PRESSURE INDICATOR AND RECORD FINDINGS. EXTENDED - YES_____ NO 7779

EMAC 60 4927 007AB 1AC
EMAC 50 4927 007JA 1A
MRB 49-023 - 757
MRB 49-022 - 767

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK - PRELIMINARY SERVICE

REV. 5/14/09

V607	62697	V0101.0
ORDER NO.	ENGINE NO.	JOB NO

M 7779 5. -----C CHECK REQUIRED ITEM----- REMOVE OIL FILTER ELEMENT AND CHECK FOR CONTAMINATION OR DAMAGE. IF EITHER CONTAMINATION OR DAMAGE FOUND, NOTIFY INSPECTION. IF OIL FILTER ELEMENT OK, REINSTALL.

NOTE - O-RING MUST BE REPLACED REGARDLESS OF OIL FILTER ELEMENT CONDITION.

METAL FOUND YES 7779 NO _____

EMAC 60 4927 003AC 4A
EMAC 50 4927 003GA 3A
MRB 49-024 - 757
MRB 49-023 - 767
MRB 49-025 - 767

M 7779 6. -----C CHECK REQUIRED ITEM----- VISUALLY CHECK GENERATOR FILTER DIFFERENTIAL PRESSURE INDICATOR AND RECORD FINDINGS. EXTENDED - YES_____ NO 7779

EMAC 60 4927 015JF 1AC
EMAC 50 4927 003JB 1A
MRB 49-025 - 757
MRB 49-024 - 767

M 7779 7. -----ALL SHOP VISIT REQUIRED ITEM-----REMOVE GENERATOR OIL SCAVENGE FILTER AND CHECK FOR METAL. IF METAL FOUND NOTIFY INSPECTION AND REQUEST JIC V0102.1 FROM SCHEDULE CENTER. IF METAL NOT FOUND, REINSTALL OLD FILTER AND PROCEED TO NEXT SIGN-OFF.

METAL FOUND YES _____ NO 7779

EMAC 60 4927 003AI 4A
EMAC 50 4927 003GA 3A
MRB 49-024 - 757
MRB 49-0F 26 767

1962
_____L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

S022 .

8. BEFORE CONTINUING WITH BASE CHECK SERVICE, CONTACT PLANNING CONTROL CENTER FOR SCHEDULING OF BASE CHECK INSPECTION JIC V0102.0.

X I I366

9. IF ENGINE TO BE COMPLETELY DISASSEMBLED, AND ALL MODULES TO BE ROUTED FOR DISASSEMBLY, NO FURTHER INSPECTION SIGN-OFFS REQUIRED, THEN PROCEED TO STEP 11.

I366 I

10. VISUALLY INSPECT ALL DRIVEN COMPRESSOR IMPELLER BLADES FOR DAMAGE AND/OR IRREGULARITIES, INCLUDING LEADING AND TRAILING EDGE WITH BOROSCOPE. ALSO VISUALLY INSPECT POWER SECTION C1 IMPELLER BLADES FOR DAMAGE AND IRREGULARITIES.

NOTE - NOTIFY SFOEP APU ENGINEERING IF DAMAGE FOUND.

DAMAGE FOUND YES_____ NO_____

J M 7779

11. -----ALL SHOP VISIT REQUIRED ITEM-----
IF TSLV IS ~~EQUAL OR GREATER THAN 1000~~ HOURS, REMOVE GENERATOR DIFFERENTIAL PRESSURE SWITCH AND ROUTE TO HOME SHOP.

ROUTED: YES 7779 NO_____
EMAC 50 4927 000JC ASV
EMAC 60 4990 009 ASV
MRB 49-051 - 767

L962 L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK - PRELIMINARY SERVICE

REV. 5/14/09

V607	62697	V0101.0
ORDER NO	ENGINE NO	JOB NO.

M 7779 12. -----C CHECK REQUIRED ITEM----- VISUALLY CHECK FUEL FILTER DIFFERENTIAL PRESSURE INDICATOR AND RECORD FINDINGS.

EXTENDED - YES _____ NO 7779

IF INDICATOR EXTENDED, CHANGE FILTER AND RESET INDICATOR.

EMAC 60 4931 010AB 1AC
EMAC 50 4931 004JA 1A
MRB 49-033 - 757
MRB 49-032 - 767

M 7779 13. -----ENGINE SHOP VISIT REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 2000 HRS, THEN REMOVE FLOW SENSING MODULE AND ROUTE TO HOME SHOP.

ROUTED: YES 7779 NO _____

NOTE - IF COA Y95591 HAS NOT BEEN ACCOMPLISHED, ROUTE FLOW SENSE MODULE REGARDLESS OF TIME.

EMAC 60 4953 001 ASV

M 7779 14. DISCONNECT PNEUMATIC LINES FROM ALL COMPONENTS THEN BLOW OUT LINES USING SHOP AIR.

M 7779 15. -----ALL SHOP VISIT REQUIRED ITEM-----
REMOVE PNEUMATIC LINE AND ELBOW FITTING FROM COMPRESSOR INLET PRESSURE SENSOR. BLOW OUT LINE AND FITTING WITH SHOP AIR OR ULTRASONIC CLEAN. MAKE SURE PORT IN INLET PLENUM IS CLEAN WITHOUT DESTRUCTION.

TUBE CLEARED: YES 7779 NO _____

_____LM 7779 16. -----ALL SHOP VISIT REQUIRED ITEM-----CHECK INLET GUIDE VANE LINKAGE WEAR AS FOLLOWS.

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK - PRELIMINARY SERVICE

REV. 5/14/09

V607	62697	V0101.0
ORDER NO	ENGINE NO	JOB NO

A. REMOVE IGVA COVER. VISUALLY CHECK FOR WEAR ON TRUNNION BUSHING. VISABLE WEAR IS CAUSE FOR TRUNNION BUSHING REPLACEMENT.

TRUNNION BUSHING REPLACED YES_____ NO 7779

B. REMOVE BOLT ATTACHING BELLCRANK TO LINKAGE ROD END. CHECK FOR WEAR IN BELLCRANK AND FOR DAMAGE OR WEAR TO FORKS. SIDE PLAY AT BELLCRANK PIVOT POINT IS CAUSE FOR BELLCRANK REPLACEMENT. IF BELLCRANK IS REPLACED, REPLACE TRUNNION BUSHING REGARDLESS OF CONDITION.

BELLCRANK REPLACED YES_____ NO 7779

NOTE - BELLCRANK PIVOT POINT WEAR HAS BEEN NOTED. ANY PLAY IN BELLCRANK INDICATES PIVOT POINT BEARING WEAR.

C. CHECK TRUNNION BLOCK FOR LOOSENESS WHERE TRUNNION ATTACHES TO BELLCRANK. AXIAL FREEPLAY OF BELLCRANK TO TRUNNION IN EXCESS OF 0.020 INCH IS CAUSE FOR TRUNNION BUSHING REPLACEMENT. IF BELLCRANK IS REPLACED, REPLACE BUSHING REGARDLESS OF CONDITION.

CHECK TRUNNION BLOCK FOR DAMAGE AND REPLACE IF DAMAGED.

TRUNNION BLOCK REPLACED YES_____ NO 7779

D. CHECK FOR FREEPLAY IN IGV LINKAGE AND FOR AXIAL PLAY IN ROD ENDS BY MOVING ROD IN AND OUT. AXIAL PLAY UP TO 0.080 INCH WITH NO VISUAL MOVEMENT IN VANES IS ACCEPTABLE.

NOTE - EXCESS FORCE SHOULD NOT BE APPLIED TO OPEN AND CLOSE INLET GUIDE VANES. SIDE PLAY CAUSED BY ROD END BEARING IS NORMAL.

E. REPLACE WORN EXTERNAL PARTS AND REINSTALL IN ACCORDANCE WITH SHOP PROCEDURE 49-25-01/SP AND/OR 49-10-01/SP.

EMAC 60 4952 099AA 2A1C

M 7779 17. -----ALL SHOP VISIT REQUIRED ITEM-----
CHECK PRESSURE RELIEF VALVE COMBUSTOR DRAIN.
REMOVE DRAIN TUBE AND PRESSURE VALVE. CHECK TO SEE IF VALVE CLOSES BETWEEN 10 - 15 PSIG. REPLACE VALVE IF OUT OF LIMIT ON CLOSING PRESSURE.
CAP VALVE IF NOT REINSTALLED.

ACTUAL PSI: 12

VALVE REPLACED YES_____ NO 7779

EMAC 50 4916 001JA ASV
MRB 49-014 - 757

M 7779 18. CHECK LRU CLUTCH FOR FREE ROTATION IN CLOCKWISE DIRECTION AND FOR SLIPPAGE OR BINDING IN COUNTER CLOCKWISE DIRECTION. REPLACE IF ANY SLIPPAGE OR BINDING FOUND.

REPLACED: YES_____ NO 7779

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK - PRELIMINARY SERVICE

REV. 5/14/09

V607	62697	V0101.0
ORDER NO	ENGINE NO	JOB NO

✓ M 7779 19. -----ESV REQUIRED ITEM-----
IF TSLV IS EQUAL TO OR GREATER THAN 2000 HRS TSLSV REMOVE STARTER MOTOR AND ROUTE TO HOME SHOP.
ROUTED: YES 7779 NO_____

NOTE - IF STARTER MOTOR IS P/N 519858-6, ROUTE TO HOME SHOP REGARDLESS OF TIME.
EMAC 50 49 41 001 ESV
EMAC 60 49 41 001JA E

✓ M 7779 20. -----ALL SHOP VISIT REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 1000 HRS THEN REMOVE GEARBOX PRESSURE REGULATING VALVE AND ROUTE. REMOVE GEARBOX REGULATING VALVE ADAPTER AND ROUTE ON ENGINE CART FOR INSPECTION OR CLEANING PER GN 4-0-3-20.

ROUTED: YES 7779 NO_____

EMAC 60 4927 012AG ASV
EMAC 50 4927 012JB ASV
MRB 49-030 - 757
MRB 49-029 - 767

M 7779 21. REMOVE THE IGNITION LEAD AND PLACE ON CART FOR INSPECTION (EID/REPAIR).

M 7779 22. -----ALL SHOP VISIT REQUIRED ITEM----- REMOVE IGNITOR PLUG AND ADAPTER AND DISCARD PLUG AND GASKETS REGARDLESS OF CONDITION. NOTE CONDITION OF REMOVED PLUG BY STAMPING A OR BELOW BELOW:

A. THE DISTANCE BETWEEN EDGE OF ELECTRODE AND INSIDE OF UNERODED EDGE OF GROUND SHELL TIP IS LESS THAN 0.090 INCH. UNIFORM EROSIION OF ELECTRODE AND OUTER SHELL IS ACCEPTABLE. NO CRACKS OR CHIPPED AREA ON CERAMIC INSULATOR.

B. DISTANCE BETWEEN EDGE OF ELECTRODE AND INSIDE OF UNERODED EDGE OF GROUND SHELL TIP IS GREATER THAN 0.090 INCH. ANY CRACK OR CHIPS ON INSULATION AREA.
ELECTRICAL CONNECTOR PIN BURNED OR BENT.
ANY BROKEN OR MISSING PARTS.
SCRAP PLUG LOCALLY.

EMAC 60 4941 002AA 3A1C

-----ESV REQUIRED ITEM----

✓ M 7779 23. IT TSLV IS GREATER THAN OR EQUAL TO 2000 APU HOURS, THEN REMOVE EXCITER UNIT AND ROUTE TO HOME SHOP.
ROUTED: YES 7779 NO_____

M 7779 24. -----ESV REQUIRED ITEM----- PERFORM HEAT CHECK OF THERMOCOUPLE HARNESS AND RECORD FINDINGS.
LEFT SIDE OPERATIVE - YES 7779 NO_____
RIGHT SIDE OPERATIVE - YES 7779 NO_____
CONNECT EGT GAGE TO THERMOCOUPLE HARNESS, P2 PLUG, PINS 10 AND 24 FOR #1 PAIR AND PINS 11 AND 25 FOR #2 PAIR. USING PORTABLE BOTTLE GAS APPLY LOCALIZED HEAT, 1200 F (650 C) MAXIMUM TO EACH PROBE ONE AT A TIME. EGT GAGE SHOULD RESPOND FOR EACH PROBE. IF ANY PROBE DOES NOT RESPOND TO HEAT CHECK, REPLACE PROBE.

M 7779 25. -----ESV C CHECK REQUIRED ITEM------
CIRCLE AND ACCOMPLISH A OR B BELOW:

7779 A. IF TIME SINCE HARNESS INSTALLATION IS GREATER THAN 2 YEARS OR NO DATE TAG, ROUTE HARNESS TO HOME SHOP.

EMAC 60 4914 000AA

B. IF TIME SINCE HARNESS INSTALLATION IS LESS THAN 2 YEARS, CHECK WIRING INSULATION FOR BREAKS OR ABRASIONS AND REPAIR AS NEEDED. VISUALLY CHECK ALL MAIN HARNESS CONNECTOR SOCKETS FOR EVIDENCE OF ARCING. REPLACE SOCKETS AS NEEDED. (THIS CHECK IS NOT REQUIRED FOR EGT HARNESSES). IF SBV OR LCV CONNECTORS ARE OLD STYLE WITH CERAMIC INSULATOR, CUT OFF AND DISCARD. IF ELECTRICAL SYSTEM FAILS FUNCTIONAL CHECK, ROUTE HARNESS TO HOME SHOP.

EMAC 60 4910 002FC ESV
EMAC 50 4914 000AB ESV

M 7779 26. IF COOLING AIR SHUTOFF VALVE IS PRESENT, NOTIFY SFOEP APU ENGINEERING. REMOVE COOLING AIR SHUTOFF VALVE AND ROUTE TO HOME SHOP. INDICATE BELOW IF VALVE IS INSTALLED:

____ A. COOLING AIR SHUTOFF VALVE INSTALLED.

7779 B. COOLING AIR SHUTOFF VALVE NOT INSTALLED.

NOTE - IF COA Y91710 OR M94260 HAS BEEN ACCOMPLISHED, COOLING FAN SHUT-OFF VALVE HAS BEEN DELETED AND NO ACTION IS REQUIRED.

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK - PRELIMINARY SERVICE

REV. 5/14/09

V607	62697	V0101.0
ORDER NO.	ENGINE NO	JOB NO

M 7779 27. -----ESV REQUIRED ITEM-----
IF TSLV IS GREATER THAN 3000 APU HOURS,
REMOVE THE LOW OIL TEMPERATURE SWITCH AND ROUTE
TO HOME SHOP.

ROUTED: YES_____ NO 7779

EMAC 60 4927 014JD ESV
EMAC 50 4927 014JA ESV

M 7779 28. -----ALL SHOP VISIT REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 1000 HRS, THEN
ROUTE GEARBOX SHUTOFF VALVE TO HOME SHOP.

ROUTED: YES 7779 NO_____

M 7779 29. -----ALL SHOP VISIT REQUIRED ITEM-----
IF TSLV IS EQUAL TO OR GREATER THAN 3000 HOURS, REMOVE
SHUTTLE VALVE. DISASSEMBLE VALVE, CLEAN, REPLACE
SEALS, AND REASSEMBLE.

ROUTED: YES_____ NO 7779

L962 LM 7779 30. -----ALL SHOP VISIT REQUIRED ITEM-----
ACCOMPLISH THE FOLLOWING AND CIRCLE A OR B BELOW:

A. COOLING FAN IS NOT LEAKING OIL. PROCEED TO
SIGN-OFF 31.

7779 (B) COOLING FAN IS LEAKING OIL.
ROUTE COOLING FAN FOR REPAIR.

FAN ROUTED: YES 7779 NO_____

M 7779 31. -----ESV REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 3000 HOURS
REMOVE FLOW DIVIDER VALVE ASSEMBLY AND ROUTE FOR BENCH
TEST OR REPAIR.

ROUTED: YES_____ NO 7779

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK - PRELIMINARY SERVICE

REV. 5/14/09

V607	62697	V0101.0
ORDER NO	ENGINE NO.	JOB NO

✓ M 7779 32. -----C CHECK REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 1000 HOURS
ROUTE OIL COOLER TO HOME SHOP.
ROUTED: YES 7779 NO_____

✓ M 7779 33. -----ALL SHOP VISIT REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 1800 HOURS,
REMOVE SURGE CONTROL VALVE AND ROUTE TO HOME SHOP.
ROUTED: YES 7779 NO_____

✓ M 7779 34. -----ALL SHOP VISIT REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 1000 HOURS,
REMOVE LOW OIL PRESSURE SWITCH AND ROUTE TO HOME SHOP.
ROUTED: YES 7779 NO_____

M 7779 35. -----ESV REQUIRED ITEM----
IF TSLV IS GREATER THAN OR EQUAL TO 3000 APU HRS,
REMOVE THE FUEL CONTROL FOR BENCH TEST.
ROUTED: YES_____ NO 7779

M 7779 36. -----C CHECK REQUIRED ITEM-----
IF TSLV IS GREATER THAN OR EQUAL TO 3000 APU HRS,
REMOVE THE COMPRESSOR INLET PRESSURE SENSOR (P2)
AND ROUTE TO HOME SHOP.
ROUTED: YES_____ NO 7779
EMAC 60 4961 004JA 1C
EMAC 50 4961 004JA 1C

M 7779 37. -----ALL SHOP VISIT REQUIRED ITEM-----
IF TSLV IS GREATER OR EQUAL TO 3000 APU HOURS, REMOVE
DE-OILER SOLENOID AND ROUTE TO HOME SHOP.
ROUTED: YES_____ NO 7779

END JOB V0101.0 REVISED 5/14/09

L962
_____L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK INSPECTION

REV. 1/7/09

V607	62697	V0102.0
ORDER NO	ENGINE NO	JOB NO.

THE FOLLOWING ARE INSPECTED TO SATISFY "C" CHECKS AND BASE ENGINE CHECK REQUIREMENTS PER GTCP331 EID 49-10-01/I00 AND INTRODUCTION/POLICY SECTION IN BOOK "0". INITIATE NON-ROUTINE (SFR4129) AS REQUIRED AND/OR RE-REVIEW ENGINE TO ACCOMPLISH CORRECTIVE ACTION.

I366 I 1. REVIEW OPEN ELR ITEMS USING "ENGWRK" IN AMIS. STAMP A, B, OR C.

X I I366 A. CUSTOMER ENGINE. NOT APPLICABLE. PROCEED TO NEXT ITEM.

I366 I B. ELR ITEMS NOT PRESENT. PROCEED TO NEXT ITEM.

X I I366 C. TRANSFER "ELR" ITEMS TO NON ROUTINES AND LIST BELOW. ACCOMPLISH "ENDATA" TRANSACTION TO CLEAR ELR ITEMS.

ELR	NON ROUTINE	ELR	NON ROUTINE

I366 I 2. STAMP A OR B BELOW.

I366 I A. ENGINE TO REMAIN IN STALL. PROCEED TO NEXT ITEM.

X I I366 B. POWER SECTION TO BE COMPLETELY DISASSEMBLED. ALL MODULES TO BE ROUTED FOR DISASSEMBLY OR ROUTED WITH ENGINE EXTERNALS FOR MODULE INSPECTION. NO FURTHER SIGN-OFFS REQUIRED.

331-200 BASE CHECK INSPECTION

REV. 1/7/09

V607	62697	V0102.0
ORDER NO	ENGINE NO	JOB NO

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

I366	I	3. VISUALLY INSPECT DRIVEN COMPRESSOR IMPELLER BLADES INCLUDING LEADING AND TRAILING EDGES FOR DAMAGE WITH BORESCOPE.
I366	I	4. VISUALLY INSPECT POWER SECTION C1 IMPELLER BLADES FOR DAMAGE AND IRREGULARITIES.
I366	I	5. VISUALLY CHECK INLET OF DRIVEN COMPRESSOR AND POWER SECTION FOR DAMAGE.
I366	I	6. VISUALLY INSPECT EXPOSED AREAS OF GEARBOX.
I366	I	7. VISUALLY INSPECT POWER SECTION INSULATION BLANKET AND HEAT SHIELD EXPOSED AREAS INCLUDING COMBUSTION CHAMBER CASE DUCT AREA.
I366	I	8. VISUALLY INSPECT GEARBOX MOUNTS.
I366	I	9. VISUALLY INSPECT FWD AND AFT MOUNT BRACKETS.
I366	I	10. VISUALLY INSPECT COOLING FAN AND SURGE VALVE DUCTING.
I366	I	11. VISUALLY INSPECT PLUMBING AND COMPONENTS. EMAC 60 4953 000AA 1C MRB 49-044 - 757 MRB 49-045 767
I366	I	12. VISUALLY INSPECT DRAIN LINES, DRAIN MAST AND CONNECTIONS.
I366	I	13. VISUALLY INSPECT FUEL SYSTEM PLUMBING AND COMPONENTS.
I366	I	14. VISUALLY INSPECT EXHAUST CASE AND MUFFLER.

331-200 BASE CHECK INSPECTION

REV. 1/7/09

V607	62697	V0102.0
ORDER NO	ENGINE NO	JOB NO

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

7356

_____I

15. VISUALLY INSPECT ALL VISIBLE CLAMPS AND BRACKETS.

****

NON-ROUTINES ISSUED:

331-200 BASE CHECK INSPECTION
REV. 1/7/09

V607	62697	V0102.0
ORDER NO	ENGINE NO.	JOB NO

1
STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

END JOB V0102.0 REVISED 1/7/09

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 M.I.S. CLEAN UP

REV. 4/3/09

V607	62697	V0102.1
ORDER NO	ENGINE NO	JOB NO.

371TL
_____L

1. CHECK APPLICABLE BLOCKS BELOW-

NOTE - IF A MINUTE AMOUNT OF METAL IS FOUND ON ANY ONE OF THE MAGNETIC PLUGS, THE CHIP DETECTOR HOUSINGS AND FILTER SHOULD BE REMOVED FROM THE GEARBOX TO DRAIN THE OIL FROM THE SYSTEM. THE FILTERS SHOULD BE CHANGED AND A 15 MINUTE PENALTY RUN SHOULD BE MADE. IF NO METAL IS GENERATED IN THE TEST RUN, NO FURTHER ACTION IS REQUIRED.

WARNING - REMOVAL OF CHIP DETECTOR HOUSING WILL CAUSE OIL TO DRAIN FROM APU. HOT OIL CAN CAUSE BURNS. TAKE NECESSARY PRECAUTIONS.

371TL
_____ A. METAL ON MAGNETIC PLUG/BOTTOM OF GEARCASE OR OIL SUPPLY FILTER OR FILTER BOWL.

METAL: YES 371TL NO_____

371TL
_____ B. METAL ON TURBINE SCAVENGE MAGNETIC PLUG OR IN TURBINE SCAVENGE OIL RETURN LINE.

METAL: YES_____ NO 371TL

0962
_____L ALL ITEMS ARE PROPERLY SIGNED OFF.

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 M.I.S. CLEAN UP

REV. 4/3/09

V607	62697	V0102.1
ORDER NO	ENGINE NO	JOB NO

7779 C. METAL ON MONOPOLE OR IN COMPRESSOR SCAVENGE OIL RETURN LINE OR MAGNETIC PLUG.

METAL: YES_____ NO 7779

ROUTE OIL PUMP.
ROUTE OIL COOLER.
FLUSH FUEL CONTROL OIL CAVITY.
ROUTE OIL LEVEL SWITCH.
FLUSH OIL COOLER SUPPLY & RETURN LINES.
ROUTE DE-OIL SOLENOID.
FLUSH LOW OIL TEMPERATURE SWITCH
(NEAR GENERATOR MAGNETIC PLUG).
FLUSH GEARBOX PER GN 4-0-3-20 PROCESS 01
(SOLVENT CLEAN). THOUROUGHLY BLOW DRY.
LIBERALLY RE-OIL ALL BEARINGS WITH EXXON 2389
ROUTE GEARBOX FOR DISASSEMBLY (ONLY IF
PRESCRIBED ON REVIEW SHEET).

6962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

M 7779 2. ACCOMPLISH BELOW:

IF METAL IS FOUND ON GENERATOR MAGNETIC PLUG OR IN SCAVENGE FILTER AND DIFFERENTIAL PRESSURE INDICATOR EXTENDED, ACCOMPLISH THE FOLLOWING:

INDICATOR EXTENDED : YES_____ NO 7779

METAL: YES_____ NO 7779

ROUTE GENERATOR.
ROUTE GENERATOR SCAVENGE PUMP.
FLUSH GENERATOR SCAVENGE FILTER DELTA P INDICATOR.
ROUTE GENERATOR SCAVENGE FILTER DELTA P SWITCH.
REMOVE GENERATOR MAGNETIC CHIP DETECTOR AND CHIP DETECTOR HOUSING AND FLUSH PORT.

M 7779 3. ACCOMPLISH BELOW:

IF METAL IS FOUND ON TURBINE SCAVENGE MAGNETIC PLUG OR IN TURBINE SCAVENGE OIL RETURN LINE, ROUTE THE TURBINE SCAVENGE PUMP AND FLUSH TURBINE OIL LINES.

METAL: YES_____ NO 7779

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 M.I.S. CLEAN UP

REV. 4/3/09

V607	62697	V0102.1
ORDER NO	ENGINE NO.	JOB NO.

M 7779 4. ACCOMPLISH BELOW:

IF METAL IS FOUND ON MONOPOLE OR IN COMPRESSOR SCAVENGE OIL RETURN LINE OR COMPRESSOR SCAVENGE MAGNETIC PLUG; ROUTE MONOPOLES IF STRIKE HAD OCCURRED; FLUSH MID CAVITY OIL SCAVENGE LINES, AND ROUTE POWER SECTION AND DRIVEN COMPRESSOR. PROCEED TO END.

METAL: YES_____ NO 7779

M 7779 5. ACCOMPLISH BELOW:

IF METAL IS FOUND IN FORWARD DRIVEN COMPRESSOR BEARING, REPLACE THE DRIVEN COMPRESSOR ROLLER BEARING AND CARBON SEAL.

METAL: YES 7779 NO_____

END JOB V0102.1 REVISED 4/3/09

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, ENGINE DISASSY/ASSY

REV. 4/26/07

V607	62697	V1000.0
ORDER NO.	ENGINE NO	JOB NO

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT

S022	S022	V0002.0	- NON-ROUTINE ACCOUNTABILITY
S022	S022	V1010.0	49-10-01ENGINE DISASSEMBLY
S022	S022	V1020.0	EXTERNAL PARTS - CLEANING
S022	S022	V1040.0	ENGINE ASSEMBLY - UAL
		V1040.1	ENGINE ASSEMBLY- CUSTOMER
		V1080.0	QEC REMOVAL
		V1090.0	QEC INSTALLATION
		V1090.1	QEC INSTALLATION - B757
S022			NOTE - INCLUDE 60-49-10-01-02 ICS - V EXTERNALS WITH LOG PACKAGE.

1

Job Instruction Card

331-200 COVER PAGE, ENGINE DISASSY/ASSY

REV. 4/26/07

V607	62697	V1000.0
ORDER NO	ENGINE NO	JOB NO

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

#2 NO COA S022

S022

S022

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

SIGNATURE: S022 DATE: 12/14/09

END JOB V1000.0 REVISED 4/26/07

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 NON-ROUTINE ACCOUNTABILITY

REV. 4/26/07

V607	62697	V0002.0
ORDER NO	ENGINE NO	JOB NO

1. THE FOLLOWING NON-ROUTINE CARDS ARE SIGNED OFF CORRECTLY AND ACCOUNTED FOR. BLANK SPACES INDICATE NO NON-ROUTINES WERE ISSUED.

NOTE - STAMP ISSUE COLUMN TO INDICATE N/R # ENTERED. RETURN COLUMN INDICATES N/R COMPLETED.

SIGN-OFF			SIGN-OFF		
N/R #	ISSUE	/ RETURN	N/R #	ISSUE	/ RETURN
099412	S022	/ S022			/
099411	S022	/ S022			/
099195	S022	/ S022			/
	S022	/		S022	/

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 NON-ROUTINE ACCOUNTABILITY

REV. 4/26/07

V607	62697	V0002.0
ORDER NO.	ENGINE NO	JOB NO

2. THE FOLLOWING NON-ROUTINE CARDS ARE SIGNED OFF CORRECTLY AND ACCOUNTED FOR. BLANK SPACES INDICATE NO NON-ROUTINES WERE ISSUED.

NOTE - STAMP ISSUE COLUMN TO INDICATE N/R # ENTERED. RETURN COLUMN INDICATES N/R COMPLETED.

SIGN-OFF			SIGN-OFF		
N/R #	ISSUE	/ RETURN	N/R #	ISSUE	/ RETURN
		/			/

6822

END JOB V0002.0 REVISED 4/26/07

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

#2, 7, 14 THRU 17 & 19 NOT REMOVED L962

Job Instruction Card

331-200 49-10-01ENGINE DISASSEMBLY

REV. 6/15/00

V607	62697	V1010.0
ORDER NO	ENGINE NO	JOB NO

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-10-01.

M L962 1. REMOVE GENERATOR.

L962 2. REMOVE SURGE VALVE AND DUCTS.

M L962 3. REMOVE COOLING FAN DUCTS.

M L962 4. REMOVE OIL COOLER.

M L962 5. DISCONNECT AND REMOVE ELECTRICAL HARNESS.

M L962 6. REMOVE ENGINE PLUMBING.

M L962 7. REMOVE BLEED AIR DUCT.

M L962 8. REMOVE COOLING FAN.

M L962 9. REMOVE STARTER.

M L962 10. REMOVE FUEL CONTROL.

M L962 11. REMOVE LUBE PUMP.

M L962 12. REMOVE GENERATOR SCAVENGE FILTER.

M L962 13. REMOVE GEARBOX ADAPTER, SOLENOID VALVE AND REGULATOR VALVE.

M 14. REMOVE MANUFACTURING ENGINE DATA PLATE.

M L962 15. REMOVE INLET PLENUM.

M 16. DISASSEMBLE UPPER INLET PLENUM.

M 17. REMOVE INLET SCREENS.

M L962 18. REMOVE GEARBOX.

L962 M 19. REMOVE DRIVEN COMPRESSOR.

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-10-01ENGINE DISASSEMBLY

REV. 6/15/00

V607	62697	V1010.0
ORDER NO	ENGINE NO	JOB NO

END JOB V1010.0 REVISED 6/15/00

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 EXTERNAL PARTS - CLEANING

REV. 6/3/03

V607	62697	V1020.0
ORDER NO.	ENGINE NO	JOB NO

1. U L982 UTILITY MECHANIC (U) CLEAN EXTERNAL COMPONENT PARTS PER GN 4-0-3-20 PROCESS 01 (SOLVENT CLEAN), AND/OR GN 4-0-3-20 PROCESS 2C.

   A. OIL LINES, DUCT ASSEMBLIES, OIL FITTINGS AND TUBES. WASH EXTERIOR AND INJECT SOLVENT INTO INTERIOR PASSAGES. ASSURE ALL PASSAGES ARE NOT OBSTRUCTED AND FREE OF DEPOSITS

L982 L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 EXTERNAL PARTS - CLEANING

REV. 6/3/03

V607	62697	V1020.0
ORDER NO	ENGINE NO	JOB NO.

END JOB V1020.0 REVISED 6/3/03

L982 L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

ITEM 1. LOAD COMP. WAS NOT REMOVED. Miro Gracil 05672 6526

ITEM 13. LRU CLUTCH WAS INSTALLED DURING G/B ASSY. Miro Gracil 05672 6526

Job Instruction Card

331-200 ENGINE ASSEMBLY - UAL

REV. 9/15/09

V607	62697	V1040.0
ORDER NO	ENGINE NO	JOB NO.

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-10-01/SP01.

L962 LM 6526 1. INSTALL DRIVEN COMPRESSOR.

M 6526 2. INSTALL INLET SCREENS.

L962 LM 6526 3. INSTALL GEARBOX.

M 6526 4. PREASSEMBLE UPPER INLET PLENUM.

M 6526 5. INSTALL INLET PLENUM.

M 6526 6. INSTALL MANUFACTURING ENGINE DATA PLATE

M 6526 7. INSTALL MONOPOLES.

M 6526 8. INSTALL GENERATOR SCAVENGE FILTER AND GENERATOR DELTA P SWITCH.

M 6526 9. INSTALL GEARBOX ADAPTER, DE-OIL SOLENOID VALVE AND REGULATOR VALVE (ETOPS CONFIGURATION).

M 6526 10. INSTALL LUBE PUMP DE-OIL TUBE AND FUEL CONTROL. (ETOPS CONFIGURATION)

M 6526 11. DO NOT CLAMP FUEL LINE TO BRACKET BETWEEN FUEL CONTROL AND FLOW DIVIDER VALVE.

M 6526 12. INSTALL MAIN OIL FILTER ELEMENT.

IT 6526 M 6526 13. INSTALL LRU CLUTCH ASSEMBLY.

M 6526 14. INSTALL OIL COOLER.

M 6526 15. INSTALL STARTER. (ETOPS CONFIGURATION)

M 6526 16. INSTALL COOLING FAN.

DUPLICATE SIGNOFF V0101.1

DUPLICATE SIGNOFF V0101.2

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

551

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

ITEM 17. FUEL FLOW DEVIDER WAS NOT REMOVED. Miro Spacil 5672 6526

ITEM 21 WAS REMOVED AND INSTALLED DURING BASE CHECK. Miro Spacil 05672 6526

Job Instruction Card

331-200 ENGINE ASSEMBLY - UAL

REV. 9/15/09

V607	62697	V1040.0
ORDER NO	ENGINE NO	JOB NO.

M 6526 17. INSTALL FLOW DIVIDER VALVE.

M 6526 18. INSTALL BLEED AIR DUCT.

M 6526 19. INSTALL IGV ACTUATOR.

M 6526 20. INSTALL SURGE CONTROL VALVE.

M 6526 21. INSTALL COMBUSTOR DRAIN PRESSURE RELIEF VALVE.

M 6526 22. INSTALL ENGINE PLUMBING.

M 6526 23. INSTALL FLOW SENSING MODULE.
CHECK FLOW SENSE MODULE AND INDICATE A OR B BELOW.

6526 A. ADJUSTABLE

____ B. NON-ADJUSTABLE

M 6526 24. INSTALL COMPRESSOR INLET PRESSURE SENSOR (P2)

M 6526 25. INSTALL GEARBOX SHUTOFF VALVE.

M 6526 26. INSTALL OIL LEVEL SWITCH.

M 6526 27. INSTALL LOW OIL TEMPERATURE SWITCH.

M 6526 28. INSTALL ELECTRICAL HARNESS.
(VERIFY DATE TAG IS INSTALLED)

M 6526 29. INSTALL OIL COOLER AND FLEX LINES COA 5-9104
(ETOPS CONFIGURATION).

M 6526 30. INSTALL COOLING FAN DUCTS.

M 6526 31. INSTALL SURGE VALVE DUCTS.

M 6526 32. INSTALL GENERATOR

NOTE - LUBRICATE APU INPUT SPLINE SHAFT AND O-RINGS WITH GRE4505-1 (CMP 49-01-01).

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

331-200 ENGINE ASSEMBLY - UAL
REV. 9/15/09

V607	62697	V1040.0
ORDER NO.	ENGINE NO.	JOB NO

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

ITEMS 38 AND 41 WERE INSTALLED DURING G/B ASST. Miro Sproul 5672 6526

M 6526 33. INSTALL LOP SWITCH. (ETOPS CONFIGURATION)

M 6526 34. INSTALL HOT SWITCH.

M 6526 35. INSTALL IGNITION EXCITER (ETOPS CONFIGURATION)

M 6526 36. INSTALL GENERATOR AND CONFIRM INSTALLATION OF 1 GENERATOR MAGNETIC CHIP DETECTORS (ETOPS CONFIGURATION).

M 6526 37. INSTALL IGNITION PLUG AND LEAD.

M 6526 38. INSTALL PRISMATIC OIL LEVEL SIGHT GAGE COA 6-9237.

M 6526 39. INSTALL 331-200ER APU DATA PLATE (ETOPS CONFIGURATION) COA 5-9004.

M 6526 40. INSTALL FRONT ENGINE MOUNTS.

--------CONTINUOUS AIRWORTHINESS ITEM----------

6526 CHECK SAFETY

M X 41. INSTALL OIL CAP AND ADAPTER ASSEMBLY COA 5-9110.

1962 LM 6526 42. FINAL ASSEMBLY VERIFICATION.

A. VISUALLY VERIFY ALL PLUMBING IS PROPERLY INSTALLED.

B. VISUALLY VERIFY ALL ELECTRICAL CONNECTORS ARE INSTALLED.

C. VISUALLY VERIFY INLET IS FREE OF F.O.D.

D. VERIFY PRESENCE AND CONDITION OF SAFETY WIRING.

E. VERIFY ENGINE ROTATES SMOOTHLY. LIMITED RUB OF SEALS IN POWER SECTION IS ACCEPTABLE.

ALL ITEMS ARE PROPERLY SIGNED OFF.

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ENGINE ASSEMBLY - UAL

REV. 9/15/09

V607	62697	V1040.0
ORDER NO	ENGINE NO	JOB NO

END JOB V1040.0 REVISED 9/15/09

L962 L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

UNITED AIRLINES

GTCP331-200ER APU Engine Manual - Inspection and Condition Sheet

ENGINE
60-49-10-01-02 ICS

DISTRIBUTION: 551

ENGINE S/N 62697 ORDER NO. V407

VADE NO _____ CUSTOMER _____ ENGINE TYPE. V

REASON FOR REMOVAL: _____

COMMENTS: _____

DISPOSITION CODES:		
	E =	MODULE MEETS EID REQUIREMENTS (ZERO TIME SINCE MODULE INSPECTION) PART MEETS DETAIL PART EID REQUIREMENTS (ZERO TIME SINCE DETAIL PART INSPECTION)
	A =	EXPOSED AREA OF PART MEETS VISUAL REQUIREMENTS OF APPROPRIATE EID (CONTINUED TIME SINCE DETAIL PARTS INSPECTION)
	C =	ROUTED OR CORRECTIVE ACTION TAKEN
	ATA# S/L-SEQ	EID NUMBER [49 precedes numbers shown (49) 31 -XX] SECTION / LIST - SEQUENCE NUMBER
	OFF LOG FUNC#	STAMP TO INDICATE PART/MODULE OFF-LOG FUNCTION NUMBER

NOTE Sign off appropriate disposition code. More than one code may be signed.

NOTE · Indicate condition of unserviceable parts regardless of disposition

NOTE : To clear parts not exposed, draw a line through the complete entry and stamp in the left margin

NOTE . If part is routed on an R&R Tag, it is mandatory to stamp the applicable "E" or "A" Block and write "R&R" in the "C" Block. Then complete the appropriate computer transaction

NOTE . Parts having no specific EID will be visually inspected per 60-49-00-00 Book "0", Introduction, Section 4, A4.

Engine Inspection Guide:

I _____ (1) Convenience Shop Visit (CSV), Project Engine Visit (PEV) or Other Shop Visit (OTH). No parts and/or modules removed or exposed No further sign-off required

1366

I _____ (2) Engine Shop Visit (ESV), Convenience Shop Visit (CSV), Project Engine Visit (PEV) or Other Shop Visit (OTH). Parts and/or modules were removed or exposed. Sign-off or void out the following items as required

Control Date. 20070429

ENGINE S/N: _____ ORDER NO V607

E	A	C	ITEM NOMENCLATURE	ATA # S/L SEQ	OFFLOG FUNC #	ROUTING / CONDITION
I366			CLAMP, V BAND 2 EA	10-00-02 50-070	XXX 5749	
I366			CLAMP, V BAND	10-00-02 50-570	XXX 5575	
I366			CLAMP, V BAND 2 EA	10-00-02 50-580	XXX 5776	
I366			CLAMP, V BAND	10-00-02 50-590	XXX 5777	
	I366		PLENUM, LOWER	21-01-00 10-275	XXX 2280	
			PLENUM, UPPER	21-02-00 10-270	XXX 2279	
I366			SCREEN, INLET	21-03-00 10-255	XXX 5737	
			COVER, MONOPOLE	21-04-00 50-140	XXX 5753	
	I366		COVER, MONOPOLE	21-04-00 50-260	XXX 5758	
			COVER, ACCESS PORT	21-06-00 50-300	XXX 5761	
I366			SHAFT, QUILL	26-22-00 18-105	XXX 5683	
	I366		SHAFT, QUILL	26-22-00 11-200	XXX 2246	
	I366		ADAPTER	27-03-00 50-010	XXX 2235	
I366			TUBE, OIL COOLER LONG	27-11-00 50-610	XXX 14501	
I366			TUBE, OIL COOLER SHORT	27-11-00 50-620	XXX 14502	
I366			BRACKET, OIL COOLER	52-15-00 01-310	XXX 2266	
I366			DUCT, TEE	53-00-01 50-030	XXX 2238	
I366			DUCT, SURGE	53-00-01 50-060	XXX 5748	

ENGINE S/N _____ ORDER NO V607

E	A	C	ITEM NOMENCLATURE	ATA # S/L SEQ	OFFLOG FUNC #	ROUTING / CONDITION
I366			DUCT, ELBOW	53-00-01	XXX	
				50040	2249	
	I366		SENSOR, STATIC	53-18-00	XXX	
				50-600	11778	
I366			BRACKETS	10-01-00	XXX	
				331 IPC		
I366			TUBING	10-01-00	XXX	
				331-IPC		
	I366		HOSES	10-01-00	XXX	
				331-IPC		
			GENERATOR	10-01-00	XXX	
				331-IPC		
	I366		MODULE, POWER SECTION	20-00-00		
				XXX	N	
	I366		MODULE, DRIVEN COMPRESSOR	25-00-00		
				18-000	F	
		I366	MODULE, GEARBOX	26-01-00		routed
				01-000	A	
		I366	ASSEMBLY, COOLING FAN	52-01-00		routed
				03-000	5650 C	
	I366		ASSEMBLY, TURBINE SCAVENGE PUMP	90-05-01	XXX	
				55-010	5578 S	
		I366	ASSEMBLY, LUBE OIL PUMP	90-01-01	XXX	routed
				41-000	5724 P	

I I366 (3) Check Inspection and Condition Sheet for completion.

OMB Control No 2120-0018
09/30/2007

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890000827025Y15 305207278

4 Organization Name and Address		5 Work Order/Contract/Invoice Number
Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	Repair Station ZN3R030M	AU6637W 305207277 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	FAN ASSEMBLY	3616959-6	N/A	1	P-1122	REPAIRED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH
CMM 49-52-37 Rev 3, OCT/31/2005
CI UAL AR 60-49-52-01/AR03 Rev NA, MAR/07/2003

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to		19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature Renoo Ziegler	21 Approval/Certificate No **ZN3R030M**
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed) **Renoo Ziegler**	23 Date (m d y) **OCT 27 2009**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1 it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

FAA form 8130 - 3 (6-01) * Installer must cross check eligibility with applicable technical data NSN 0052 - 00 - 012 - 9005

Paperwork Reduction Act Statement.
An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number associated with this collection of information is 2120-0018
Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at 800 Independence Ave SW, Washington, DC 20591, Attn Information Collection Clearance Officer ABA-20

Phoenix - Sky Harbor
Honeywell International Inc
1944 E Sky Harbor Circle
PHOENIX AZ 85034
Date 27 OCT 2009

Honeywell Repair Station ZN3R030M

Configuration And Findings Evaluation

Repair Order: 2009-305207277-001 **Customer.** 330407 CHROMALLOY ARIZONA
305207278
Customer P/O: AU6637W **Orig Cust:**
Part Number: 3616959-6 **Part Desc:** FAN ASSEMBLY **Serial No:** P-1122
Mods
Series/Issue/Amdts:
Quantity: 1 **Ship Date:** **Received Date:** 19 OCT 2009
Aircraft tail #. **Aircraft S/N#:** **Date on:** **Date off:**
Model #: APU 331-200/250 **Engine S/N:** **Alternate S/N.**

TIMES / CYCLES

Time Since New: **Cycles Since New:**
Time Since Overhaul: **Cycles Since Overhaul:**
Time Since Repair: **Cycles Since Repair:**

CUSTOMER REASON FOR RETURN

PART HAS INTERNAL LEAKS DURING TEST
RUN REPAIR IAW UAL SPEC 49-52-
01/AR03 WARRANTY RETURN

GENERAL CONDITION AS RECEIVED (HIDDEN DAMAGE)

Condition Received Text

Unit oily

Reason for return Code OTHER, DESCRIBED IN REMARKS

Removal Type Unscheduled

DETAIL DISASSEMBLY / EVALUATION FINDINGS

Failure Description:

contaminated

Findings:

Bearings and seals worn

Related Area: **Non-conformance:** CONTAMINATED OR CORRODED **Recurrent Failure:** No

Failed Part	Part Name	Condition:	Primary Failure
3827268-1	BELLOWS, OIL SEAL	Worn	No - but contributing
3822493-2	ROTOR SEAL	Worn	No - but contributing
3613703-1	BEARING, ROLLER, CYLINDRICAL	Worn	No - but contributing
3613704-3	BEARING BALL ANLR	Worn	No - but contributing

SERVICE BULLETINS / AUTHORIZING DOCUMENTS

Authorizing Technical Document
Doc# UAL AR 60-49-52-01/AR03 Rev NA Date 03/07/2003
Doc# CMM 49-52-37 Rev 3 Date 10/31/2005

Phoenix - Sky Harbor
Honeywell International Inc
1944 E Sky Harbor Circle
PHOENIX AZ 85034

Honeywell

Repair Station ZN3R030M

Date 27 OCT 2009

Configuration And Findings Evaluation

Repair Order: 2009-305207277-001 305207278 **Customer:** 330407 CHROMALLOY ARIZONA

Customer P/O: AU6637W **Orig Cust:**

Part Number: 3616959-6 **Part Desc:** FAN ASSEMBLY **Serial No:** P-1122

Mods:

Series/Issue/Amdts:

Quantity. 1 **Ship Date.** **Received Date:** 19 OCT 2009

WORK PERFORMED / COMMENTS TO CUSTOMER

Workscope Performed / Summary of Actions Taken

Disassembled, clean and inspected

Replaced worn bearing and seals Reassembled and return to service UAL SPEC 49-52-01/AR03

Action Taken Code Repaired

Customer Confirmed Removal Reason: None Given

Evaluation Type Evaluated - Significant Fault Found

FINAL CONFIGURATION
Part No. 3616959-6

S/N: P-1122

Series/Issue/Amdts.

Mods:

MECHANIC/ANALYST Dillon Gadd **DATE:** 21 OCT 2009

DS-3616959-6
Sheet 1 of 1

Cooling Fan Acceptance Test Data Sheet

Used with
TI-3616959
Rev. N/A

Date: 10-24-09

Cooling Fan Assembly P/N 3616959-6, Serial Number P-1122

Test APU Model: ☐ 331-200[ER] ☑ 331-250[H]

Test APU Serial No. P-1

APU Load Condition	RTA Peak Vibration (in/sec) at Fan Frequency**			
	No Generator Installed		Generator Installed	
	Limit	Actual*	Limit	Actual
No Load	0 60	.42	0.60	N/A
ECS	0 60	.36	0.60	↓
MES	0 60	.38	0 60	↓

*NOTE: If fan vibration is within limits with the generator installed, it is not necessary to record vibration with the generator removed.

RESULTS. ACCEPT ☑ REJECT ☐

TECHNICIAN: R Kleman FT OCT 24 2009

**Fan Frequency Calculation:

Fan Frequency (Hz) = APU Speed (rpm) multiplied by 1.04 divided by 60(Hz)

Fan Speed

OMB Control No 2120-0018
09/30/2007

1 Approving National Aviation Authority/Country	2.	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890000887302Y15 305367549

4. Organization Name and Address		5 Work Order/Contract/Invoice Number
Honeywell International Inc 1 Cliff Garrett Drive Anniston AL 36201	Repair Station ZX4R716M	S9887809755 305367545 Page 1 of 1

6 Item	7 Description	8. Part Number	9 Eligibility.*	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	VALVE SURGE CONTROL	979806-11	N/A	1	1554	REPAIRED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH·
ATD CMM 49-53-67 Rev 12, AUG/30/2002
CI AC-60-49-53-05-JD Rev NA, OCT/02/2008
CI RAS 49-53-67A-001 Rev NA, MAR/25/2008

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER. EASA 145.4127

14 Certifies the items identified above were manufactured in conformity to		19. ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No **ZX4R716M**
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed) **Arland Doss**	23 Date (m d y) **DEC 01 2009**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1. Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

FAA form 8130 - 3 (6-01) * Installer must cross check eligibility with applicable technical data NSN 0052 - 00 - 012 - 9005

Paperwork Reduction Act Statement:
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Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at: 800 Independence Ave SW, Washington, DC 20591, Attn Information Collection Clearance Officer, ABA-20

1. Approving National Aviation Authority/Country	2.	3. Form Tracking Number:
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	**W110639**

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
REPAIR STATION NO IROR086L Fokker Airinc Incorporated, 14560 Greeno Rd., Fairhope, AL 36532, United States	**S9887609440**

6. Item.	7. Description:	8. Part Number:	9. Eligibility. *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work
1	FLOW SENSING MODULE	3885081-1	N/A	1	SX9999A	REPAIRED

13. Remarks:

REPAIRED IN ACCORDANCE WITH UNITED/HONEYWELL PUBLICATION # AC-60-49-54-01, REVISION # N/A DATED Feb-20-2007 FULL DETAILS OF WORK CARRIED OUT PER WORK ORDER NUMBER W110639 THE WORK WAS PERFORMED BY Roger Swire EMPLOYEE # R S55419

14. Certifies the items identified above were manufactured in conformity to:	19. [X] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13
☐ Approved design data are in a condition for safe operation ☐ Non-approved design data specified in Block 13.	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15. Authorized Signature:	16. Approval/Authorization No:	20. Authorized Signature:	21. Approval/Certificate No:
			IROR086L
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or printed):**	**23. Date (m/d/y)**
		Ronald G. Merkel	Dec-03-2009

User/Installer Responsibilities

It is important to understand the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

UNITED

Tracking Enterprise-wide Distribution of Inventory

Shipping Instruction Page

Printer Friendly View | This Instruction Was Last Updated:

Air/Ground	PCN	Part Number	Noun
Air	6710266	N/A	Exciter

UN/ID/NA Number	Proper Shipping Name
UN2911	Radioactive material, excepted package-instruments

Class Division	Subsidiary Risk	Packing Group	Unit Qty
7	N/A	N/A	0.09 GBQ

Maximum Net Quantity Per Package		IATA Packing Instructions	
Limited Qty	Not Used	Limited Qty	Not Used
Passenger	800.00 GBQ	Passenger	IATA10
Cargo	800.00 GBQ	Cargo	IATA10

Labels Required	Drill Code	IMP Code
None	None	None

Special Authorizations:

N/A

Container Type	Container Required	PCNMIN Container
Fiberboard Box	UAL non-spec fiberboard box	None

Special Packing Instructions:

(NOTE: Per IATA 10.5 no hazard class labels are placed on the completed package. TEDI-HAZMAT cannot generate the correct Air Waybill for UN2911 items at this time. You must manually prepare a domestic or international Air Waybill. Use the AWB templates from the on-line document template library. Do not attempt to generate a TEDI-HAZMAT AWB for this shipment. A Shipper's Dec and Pilot Notification are not required.) PACKAGING: Ensure instrument or the inner packaging is marked with the word "Radioactive" or the phrase "Radiation Hazard". If instrument does not have the phrase included, write the word "Radioactive" or the phrase "Radiation Hazard" on a label or sticker, place the unit in a small box (inner packaging) and affix the sticker/label to the inner packaging. Set up box. Tape all bottom seams. Place cushioning material in box. Place unit (in inner packaging) in box. Fill remaining void in box with cushioning material to prevent movement of or damage to the unit. Close box lids. Tape all top seams. PREPARING A DOMESTIC AIR WAYBILL: Manually complete a domestic Air Waybill. In the 'Instructions to Carrier' box, you must include the 24 hr emergency response number. Also include the statement: 'A Shipper's Declaration and Pilot Notification

OMB Control No 2120-0018
09/30/2007

1 Approving National Aviation Authority/Country	2.	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890000619290Y15 304193910

4 Organization Name and Address		5 Work Order/Contract/Invoice Number
Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	Repair Station ZN3R030M	au6324 304193909 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	PUMP ASSEMBLY LUBE	3880190-10	N/A	1	A3757	REPAIRED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH
CMM 49-91-41 Rev 11, NOV/01/2004

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER EASA 145.4136

14 Certifies the items identified above were manufactured in conformity to		19 ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature Chris Vaughan	21 Approval/Certificate No **ZN3R030M**
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed) **Christopher Vaughan**	23 Date (m d y) **JUN 19 2009**

User / Installer Responsibilities

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FAA form 8130-3 (6-01) * Installer must cross check eligibility with applicable technical data NSN 0052-00-012-9005

Paperwork Reduction Act Statement.
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Phoenix - Sky Harbor
Honeywell International Inc
1944 E Sky Harbor Circle
PHOENIX AZ 85034

Honeywell

Repair Station ZN3R030M

Date 19 JUN 2009

Configuration And Findings Evaluation

Repair Order 2009-304193909-001 **Customer** 330407 CHROMALLOY ARIZONA
304193910
Customer P/O au6324 **Orig Cust**
Part Number. 3880190-10 **Part Desc.** PUMP ASSEMBLY LUBE **Serial No:** A3757
Mods:
Series/Issue/Amdts
Quantity 1 **Ship Date.** **Received Date** 05 JUN 2009
Aircraft tail #. **Aircraft S/N#** **Date on** **Date off**
Model #. 638 Fuel Controls Other **Engine S/N:** **Alternate S/N**
TIMES / CYCLES
Time Since New: **Cycles Since New:**
Time Since Overhaul: **Cycles Since Overhaul:**
Time Since Repair: **Cycles Since Repair:**

CUSTOMER REASON FOR RETURN

repair law irm 49-23-49,

GENERAL CONDITION AS RECEIVED (HIDDEN DAMAGE)

Condition Received Text

oily and dirty

Reason for return Code OTHER, DESCRIBED IN REMARKS

Removal Type Unscheduled

DETAIL DISASSEMBLY / EVALUATION FINDINGS

Failure Description:

metal contaminated

Findings:

Related Area: **Non-conformance:** CONTAMINATED OR CORRODED **Recurrent Failure:** No

Failed Part	Part Name	Condition:	Primary Failure

SERVICE BULLETINS / AUTHORIZING DOCUMENTS

Authorizing Technical Document

Doc# CMM 49-91-41 Rev 11 Date 11/01/2004

WORK PERFORMED / COMMENTS TO CUSTOMER

Workscope Performed / Summary of Actions Taken

DIsassembled, cleaned and inspected

Reassembled,installed new filter Tested and returned for service

Action Taken Code Repaired

Customer Confirmed Removal Reason: None Given

Evaluation Type Evaluated - Minor Fault Found

Phoenix - Sky Harbor
Honeywell International Inc
1944 E Sky Harbor Circle
PHOENIX AZ 85034

Honeywell

Repair Station ZN3R030M

Date 19 JUN 2009

Configuration And Findings Evaluation

Repair Order 2009-304193909-001 304193910
Customer 330407 CHROMALLOY ARIZONA
Customer P/O. au6324
Orig Cust
Part Number. 3880190-10
Part Desc PUMP ASSEMBLY LUBE
Serial No A3757
Mods.
Series/Issue/Amdts:
Quantity. 1
Ship Date
Received Date: 05 JUN 2009

FINAL CONFIGURATION **Part No:** 3880190-10 **S/N.** A3757
Mods.

Series/Issue/Amdts.

MECHANIC/ANALYST Dillon Gadd **DATE.** 10 JUN 2009

So# 5002603656

DS-3880190-101C
DATA SHEET OIL PUMP ASSEMBLY

P/N 3880190- 10 S/N A3757
Scavenge Flowmeter Q2
Technician JE Ethel

Lube Flowmeter Q1
Facility Number 2101-1
Date 6-16-09 Barometer 29.29 inHgAbs

Reference Paragraph Number			1 B (3) (c)		1 B (3) (d) 3 and 5				1 B (3) (d) 6	
Parameter	Symbol	Units	High Pressure Relief		Pump Performance				Pressure Regulator Set	
					Sea Level		Altitude			
			Required	Actual	Required	Actual	Required	Actual	Required	Actual
Oil Inlet Temperature	T	°F	90±30	80	90±30	80	90±30	80	90±30	80
Speed	N	rpm	8186±20	8182	8186±20	8186	8186±20	8188	8186±20	8189
Lube Pump Inlet Pressure	P_{P1}	inHgAbs inHgG	30±1	29.13	30±1	29.13	11 0±0 5	11.0	30±1	29.99
Lube Pressure	P_{P2}	psig			Record	86.45	Record	89.78	71±2	72.1
Pump Discharge	P_{P3}	psig	240±40	269	100±5	98.6	100±5	101.5	Record	83
Scavenge Pump Inlet Pressure	P_{S1}	inHgAbs inHgG	30±1	29.13	30±1	29.13	11 0±0 5	11.0	30±1	29.99
Scavenge Pump Discharge Pressure	P_{S2}	psig	10±10	8.23	10±10	8.22	10±10	7.88	10±10	8.08
Lube Pump Flow	Q_P	Hz gpm			Record, 11 5 min	— 13.13	Record, 9 8 min	— 13.06	Record, 8 4±0 1	— 8.48
Scavenge Pump Flow	Q_S	Hz gpm			Record, 3 8 min	— 4.38	Record, 3 6 min	— 4.32	Record Record	— 4.38

Reference Paragraph Number			1 B (3) (d) 2 and 4		
			Low Speed Pump Performance		
Parameter	Symbol	Units	Sea Level		Altitude	
			Required	Actual	Required	Actual
Oil Inlet Temperature	T	°F	90±30	80	90±30	80
Speed	N	rpm	1900±20	1906	1900±20	1909
Lube Pump Inlet Pressure	P_{P1}	inHgAbs inHgG	30±1	29.02	11 0±0 5	11.0
Lube Pressure	P_{P2}	psig				
Pump Discharge	P_{P3}	psig	100±5	98.9	10±10	5.6
Scavenge Pump Inlet Pressure	P_{S1}	inHgAbs inHgG	30±1	29.02	11 0±0 5	11.0
Scavenge Pump Discharge Pressure	P_{S2}	psig	10±10	1.67	75±5	76.75
Lube Pump Flow	Q_P	Hz gpm	Record, 2 4 min	— 3.01		
Scavenge Pump Flow	Q_S	Hz gpm			Record, 0 5 min	— 0.96

If pump fails this test point, contact the responsible Engineer and supply a copy of this data sheet or the original In addition a copy of this data sheet should also accompany any rejected pump

Cold Soak Test Status

Accept ____
Reject ____
Not Required ✓

Unit Status

Accept ✓
Reject ____

Pump History

New ____
Repaired ✓

Reference Paragraph Number	4 A (filter replacement)	Verified OE
Remarks	Technician Signature JE Ethel	Date 6-16-09

Lube Pump Assembly Test Data Sheet
Figure 102

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	8130-289485

4 Organization Name and Address

AEROTRON AIRPOWER, INC.
456 AEROTRON PARKWAY
LAGRANGE, GA 30240

FAA CERTIFICATION # XJ3R973L

Phone 706-812-1700
FAX 706-812-9666

5 Work Order, Contract, or Invoice Number

20906-274

Cust Ref S9887608302

6 Item	7 Description	8 Part Number.	9 Eligibility*	10. Quantity	11. Serial/Batch Number	12. Status/Work
1	VALVE, DE-OIL SOLENOID	3876166-1 6431179	N/A	1	3060	INSPECTED

13 Remarks

49-91-47 Rev:1 11/16/1998

A GENERAL DESCRIPTION OF THE WORK PERFORMED IS IN THE ATTACHED WORK ORDER DOCUMENT, UNDER THE PART DESCRIPTION LISTED IN BLOCKS 6,7,8,10 AND 11 AS APPLICABLE A COMPLETE DESCRIPTION OF WORK PERFORMED IS ON FILE AT THE ABOVE REFERENCED ORGANIZATION UNDER THE WORK ORDER AND SYSTEM TRACKING REFERENCE NUMBER INDICATED IN BLOCKS 3 AND 5. NOTICE: An Airworthiness Directive may apply to the articles(s) described hereon. The installer is responsible for ensuring complete compliance with any applicable Airworthiness Directives.

Aerotron AirPower, Inc certifies that the work specified in block 12 was carried out in accordance with EASA 145 and with respect to that work the aircraft component is considered ready for release to service under EASA acceptance certificate number EASA 145 4067 and CAAC # F00100047

COMPLIED WITH AC-60-49-53-20-JD DATED 12/30/2002 COMPLIED WITH RAS 49-50-00J-001

14. Certifies the items identified above were manufactured in conformity to:

- ☐ Approved design data and are in condition for safe operation
- ☐ Non-approved design data specified in Block 13.

19 ☑ 14 CFR 43.9 Return to Service ☑ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature	21 Approval/Certificate Number
			XJ3R973L
17. Name (Typed or Printed):	18 Date (m/d/y):	22. Name (Typed or Printed) KIRT MATHES	23 Date (m/d/y) Jun/22/2009

User/Installer Responsibilities

It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft maybe flown

OMB Control No 2120-0018
09/30/2007

1 Approving National Aviation Authority/Country	2.	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890000872651Y15 305378980

4 Organization Name and Address		5 Work Order/Contract/Invoice Number
Honeywell International Inc 1 Cliff Garrett Drive Anniston AL 36201	Repair Station ZX4R716M	S9887809761 305378979 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	VALVE,OUTL, REGULATING, GEARBOX	3289504-2	N/A	1	PL101	REPAIRED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH.
ATD CMM 49-27-13 Rev 6, JAN/31/2003
CI AC-60-49-26-10-JD Rev NA, JUN/17/2008
CI RAS 49-27-13A-001 Rev NA, NOV/16/2007

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER EASA 145 4127

14 Certifies the items identified above were manufactured in conformity to		19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		Certfies that unless otherwise specfied in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No **ZX4R716M**
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed) **John Canada**	23 Date (m d y) **NOV 21 2009**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

FAA form 8130 - 3 (6-01) * Installer must cross check eligibility with applicable technical data NSN 0052 - 00 - 012 - 9005

Paperwork Reduction Act Statement.
An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number associated with this collection of information is 2120-0018
Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at. 800 Independence Ave SW, Washington, DC 20591, Attn Information Collection Clearance Officer, ABA-20

1 Approving National Aviation Authority/Country: FAA/UNITED STATES	2. **AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number: **78907-09**

4. Organization Name and Address: **Repair Station# OA9R240X** **AERO TECHNOLOGIES, LLC.** **2200 NW 84th Ave., Miami, Florida 33122, Fax 305/436-6064, 305/436-5464**	5 Work Order/Contract/Invoice Number **78907 / S9826308351**

6. Item	7. Description:	8. Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch Number	12 Status/Work
1	**SHUTOFF VALVE**	**3616848-2**	**N/A**	**1**	**0716**	**INSPECTED**

13. Remarks: **Work order # 78907 describing actual work performed is attached.**
Work performed has been completed IAW FAA approved data.
The Inspection performed was accomplished IAW UA CMM AC-60-49-63-01 and authorized supplemental documents therein.
JD Rev Dated 01/04/2005.
Aero Technologies has verified that there are no outstanding and/or existing AD's on this unit.

Certifies that the work specified in block 12/13 was carried out in accordance with EASA PART 145 and with respect to that work the aircraft component is considered ready for release to service under EASA Approval Certificate Number 4199 and FAR PART 145 Air Agency Certificate number145.4199

14. Certifies the items identified above were manufactured in conformity to	19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13
☐ Approved design data and are in condition for safe operation. ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15 Authorized Signature:	16 Approval/Authorization No.:	20 Authorized Signature.	21 Approval/Certificate No.. **OA9R240X**
17. Name (Typed or Printed)	18 Date (m/d/y):	22 Name. (Typed or Printed) **GIUSEPPE TARTAGLIA**	23 Date (m/d/y): **Oct 27,2009**

User/Installer Responsibilities

It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an Airworthiness Authority different than the Airworthiness Authority of the country specified in block 1, it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the Airworthiness Authority of the country specified in block 1

Statements in block 14 and 19 do not constitute installation certification *In all cases aircraft maintenance records must contain an installation certification issued in accordance* with national regulations by the user/installer before the aircraft may be flown

UNITED

PSEN446A-1 UNITED AIRLINES ENGINE MAINTENANCE SYSTEM PAGE 1
11/18/09 COA SCHEDULING REPORT TIME. 08.01
COAS FOR ENTIRE ASSEMBLY REASON: REMOVAL REQUESTOR NAME: REMOVAL
ORGANIZATION:

WORK CENTER: 551

SERIAL NBR	ET	MT	NAME	PWR RTG	CUST
62697		V	APU331	200E	UA

ORDER NUMBER
V607

COA NUMBER	COA CAT	MODULE/ FUNC NBR	UNIT SERIAL	UNIT COA STATUS	ISS	COMP	COA TITLE	COMPLETION DATE
Y-9171-O	2		62697	COMPLETED			GTCP331-200 CLNG FAN VLV DELETION	04/14/04
Y-9569-1	2		62697	COMPLETED			GTCP331-200 FLOW SENSING MODULE PALLET	04/14/04
O-9227	1		62697	COMPLETED			757/767 APU PNEU MOD PLT STAND & UPGRD	04/14/04
5-9004	1		62697	COMPLETED			B757 331-APU INSTALL S/N DATA PLACARD	04/14/04
5-9089	4	00988	1983	COMPLETED			757/767 GTCP331 APU IGV BUSHNG-UPGRADE	08/23/00
5-9110	1		62697	COMPLETED			757/767 331 APU OIL GAL AND ADAPTER AS	04/14/04
5-9127	2		62697	COMPLETED			GTCP331-200ER APU SCV SERPENTINE LINE	04/14/04
6-9227	1		62697	COMPLETED			B767/B757 APU OIL LEVEL SIGHT GAGE PLT	04/14/04

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 STARTER CLUTCH - DISASSEMBLY/CLEANING

REV. 5/6/96

LV578	62332	V7010.0
ORDER NO.	ENGINE NO.	JOB NO.

M L962 1. REMOVE LRU CLUTCH ADAPTER TOOL.

M L962 2. REMOVE ASSEMBLED STARTER GEAR FROM ADAPTER.

M L962 3. REMOVE WASHERS AND WAVE SPRINGS FROM ADAPTER.

M L962 4. REMOVE RETAINING RING AND WASHERS FROM ASSEMBLED STARTER GEAR. REMOVE SPLINE SHAFT AND PLUG.

M L962 5. REMOVE BEARINGS FROM SPLINE SHAFT AND STARTER GEAR.

M L962 6. DISCARD ALL BEARINGS EXCEPT P/N 3860160-1. BAG REMAINING BEARING FOR RECOVERY.

7. U L962 *UTILITY MECHANIC (U) CLEAN DISASSEMBLED PARTS* PER GN 4-0-3-20 PROCESS 01. (SOLVENT CLEAN)

M L962 8. ROUTE PARTS TO INSPECTION.

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 STARTER CLUTCH - DISASSEMBLY/CLEANING

REV. 5/6/96

LV578	62332	V7010.0
ORDER NO.	ENGINE NO	JOB NO

END JOB V7010.0 REVISED 5/6/96

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 STARTER CLUTCH - ASSEMBLY

REV. 9/27/93

LV578	62332	V7040.0
ORDER NO.	ENGINE NO.	JOB NO

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-27-01/SP01.

ASSIGNED TO ENGINE ORDER NUMBER V607 8022

M 7066 1. ASSEMBLE STARTER GEAR ASSEMBLY.

2.9850 - A2 (REFERENCE DIMENSION)

- 2.367 - A3

= .618 - (SUBTOTAL)

- 0.6180 - A1 (REFERENCE DIMENSION)

= .000 - (SUBTOTAL)

+ .211 - B

= .211 - (SUBTOTAL)

- 0.0780 - (SPRING HEIGHT)

= .133 - (SUBTOTAL)

- 0.1000 - (NOMINAL)

= 033 - SHIM THICKNESS REQUIRED.

.032 - ACTUAL SHIMS USED, + OR - 0.001 INCH.

551

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 STARTER CLUTCH - ASSEMBLY

REV. 9/27/93

LV578	62332	V7040.0
ORDER NO.	ENGINE NO.	JOB NO.

M 7066 2. INSTALL SPLINE SHAFT AND STARTER CLUTCH.

.270 - 1A

- .128 - 1B

= .142 - (SUBTOTAL)

- .062 - 1C

= .080 - (SUBTOTAL)

- 0.0455

= .0345 - SHIM THICKNESS REQUIRED.

.035 - ACTUAL SHIMS USED, + OR - 0.0025 INCH.

M 7066 3. PACKAGE LRU CLUTCH ASSEMBLY.

END JOB V7040.0 REVISED 9/27/93

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, POWER SECTION
REV. 4/26/07

NV607	62697	V2000.0
ORDER NO	ENGINE NO	JOB NO

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT

	V0002.0	- NON-ROUTINE ACCOUNTABILITY
	V2010.0	49-20-02TURBINE GROUP REMOVAL
	V2011.0	49-20-01COMPRESSOR/COMBUSTOR DISASSEMBLY
	V2020.0	POWER SECTION - CLEANING
	V2041.0	COMPRESSOR/COMBUSTOR ASSEMBLY
	V2042.0	49-24-00TURBINE GROUP ASSEMBLY.
SO22	V2043.0	49-20-02TURBINE GROUP INSTALLATION
	V2043.5	49-20-02TURBINE BEARING REMOVAL & INSTALLATION
		NOTE - INCLUDE 60-49-20-00-00 ICS - POWER SECTION MODULE 'NV' WITH LOG PACKAGE.

Job Instruction Card

331-200 COVER PAGE, POWER SECTION

REV. 4/26/07

NV607	62697	V2000.0
ORDER NO	ENGINE NO	JOB NO

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

S022

#2 NO CAN S022

S022

S022

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

   ASSEMBLY S/N: P-1983 S022

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

   SIGNATURE: S022 DATE: 12/10/09

END JOB V2000.0 REVISED 4/26/07

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, TURBINE SCAVENGE PUMP ASSY

REV. 4/26/07

SV607	62697	V2005.0
ORDER NO	ENGINE NO	JOB NO

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT

V0002.0 - NON-ROUTINE ACCOUNTABILITY

V2050.0 49-23-49TURBINE SCAVENGE PUMP - DISASSEMBLY

V2021.0 TURBINE SCAVENGE PUMP ASSY - CLEANING

V2055.0 49-23-49TURBINE SCAVENGE PUMP - ASSEMBLY

NOTE - INCLUDE 60-49-90-05-01 ICS - TURBINE SCAVENGE OIL PUMP MODULE WITH LOG PACKAGE.

1

Job Instruction Card

331-200 COVER PAGE, TURBINE SCAVENGE PUMP ASSY

REV. 4/26/07

SV607	62697	V2005.0
ORDER NO	ENGINE NO	JOB NO

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

fr no COA S022

S022

S022

S022

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

ASSEMBLY S/N: none S022

3. MAINT. MANAGER OR *DESIGNEE SIGNATURE* VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

SIGNATURE: S022 DATE: 12/10/09

END JOB V2005.0 REVISED 4/26/07

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, LOAD COMPRESSOR

REV. 4/26/07

FV607	62697	V6000.0
ORDER NO.	ENGINE NO.	JOB NO.

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT

S022 S022

V0002.0 - NON-ROUTINE ACCOUNTABILITY
V6010.0 DRIVEN COMPRESSOR - DISASSEMBLE
V6020.0 DRIVEN COMPRESSOR - CLEANING
V6040.0 DRIVEN COMPRESSOR - ASSEMBLY
NOTE - INCLUDE 60-49-25-00-00 ICS - LOAD COMPRESSOR/IGV MODULE 'FV' WITH LOG PACKAGE.

S022

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, LOAD COMPRESSOR

REV. 4/26/07

FV607	62697	V6000.0
ORDER NO.	ENGINE NO	JOB NO

S022

S022

S022

2nd last S022

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

ASSEMBLY S/N: P-1902 S022

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

SIGNATURE: S022 DATE: 12/9/09

END JOB V6000.0 REVISED 4/26/07

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, IGV ASSEMBLY

REV. 4/26/07

IV607	62697	V6005.0
ORDER NO	ENGINE NO	JOB NO.

S022

2 NO COA S022

S022.

S022.

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

   ASSEMBLY S/N: NONE S022

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

   SIGNATURE: S022 DATE: 12/10/09

END JOB V6005.0 REVISED 4/26/07

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, IGV ASSEMBLY

REV. 4/26/07

ORDER NO	ENGINE NO	JOB NO
IV607	62697	V6005.0

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT

V0002.0 - NON-ROUTINE ACCOUNTABILITY
V6015.0 IGV ASSEMBLY-DISASSEMBLE
V6025.0 IGV ASSEMBLY - CLEANING
V6045.0 IGV ASSEMBLY-ASSEMBLE
NOTE - INCLUDE 60-49-25-02-00 ICS - VARIABLE INLET GUIDE VANE MODULE WITH LOG PACKAGE.

UNITED AIRLINES

GTCP331-200ER APU Engine Manual - Inspection and Condition Sheet

GEARBOX MODULE
60-49-26-01-00 ICS

DISTRIBUTION 551

ENGINE S/N: 62332 VADE NO _____ CUSTOMER UA

MODULE ORDER NO: AV578 MODULE S/N P209 MODULE A

REASON FOR REMOVAL. _____

COMMENTS: _____

DISPOSITION CODES		
	E =	PART MEETS DETAIL PART EID REQUIREMENTS (ZERO TIME SINCE DETAIL PART INSPECTION)
	A =	EXPOSED AREA OF PART MEETS VISUAL REQUIREMENTS OF APPROPRIATE EID (CONTINUED TIME SINCE DETAIL PARTS INSPECTION)
	C =	PART ROUTED OR CORRECTIVE ACTION TAKEN
	ATA# S/L-SEQ	EID NUMBER [49 precedes numbers shown (49) 31 -XX] SECTION / LIST - SEQUENCE NUMBER
	OFF LOG FUNC#	STAMP TO INDICATE PART OFF-LOG FROM MODULE FUNCTION NUMBER

NOTE Sign off appropriate disposition code More than one code may be signed.

NOTE : Indicate condition of unserviceable parts regardless of disposition

NOTE : To clear parts not exposed, draw a line through the complete entry and stamp in the left margin

NOTE : If part is routed on an R&R Tag, it is mandatory to stamp the applicable "E" or "A" Block and write "R&R" in the "C" Block Then complete the appropriate computer transaction.

NOTE Parts having no specific EID will be visually inspected per 60-49-00-00 Book "0", Introduction, Section 4, A4.

Module Inspection Guide:

I _____ (1) Module inspected and found serviceable per EID 60-49-26-01-00 [ZERO Time Since Module Inspection (TSMI)] No parts removed from module No additional sign-off required.

I I193A (2) Module partially or completely disassembled. Removed parts and / or exposed areas inspected per appropriate EID (ZERO Time Since Detail Parts Inspection - TSDPI)

Control Date 20070329

ENGINE S/N 62332 ORDER NO: AV578

E	A	C	ITEM NOMENCLATURE	ATA # / S/L SEQ	OFFLOG / FUNC #	ROUTING / CONDITION
		I193A	BEARING, FAN IDLER	26-00-01	XXX	ROUTED TO CAZ
				01-410	5642	
		I193A	BEARING, OIL PUMP	26-00-01	XXX	ROUTED TO CAZ
				01-420	5643	
		I193A	BEARING, HI SPEED PINION	26-00-01	XXX	ROUTED TO CAZ
				01-430	5644	
		I193A	BEARING, GENERATOR IDLER	26-00-01	XXX	ROUTED TO CAZ
				01-440	5645	
		I193A	BEARING, GENERATOR	26-00-01	XXX	ROUTED TO CAZ
				01-450	5646	
		I193A	BEARING, IDLER	26-00-01	XXX	ROUTED TO CAZ
				01-460	5647	
		I193A	BEARING, OUTER RACE	26-00-01	XXX	ROUTED TO CAZ
				01-460	9267	
		I193A	HOUSING, ACCY GEARBOX	26-02-00	I193A	WORN BRG. SURFACES ROUTED TO CAZ
				01-300	0987	
I193A			GEAR ASSY, OIL PUMP	26-03-00	XXX	OK
				01-120	2233	
I193A			GEAR, GENERATOR IDLE	26-04-00	XXX	OK
				01-160	2230	
		I193A	GEAR ASSY, MATCHED SPUR	26-05-00	XXX	DAMAGED ROUTED TO CAZ
				01-130	2229	
		I193A	GEARSHAFT, GENERATOR DRIVE	26-06-00	XXX	SHAFT DAMAGED ROUTED TO CAZ
				01-200	2231	
I193A			GEAR, FAN IDLER	26-08-00	XXX	OK
				01-140	2237	
I193A			TUBE, JET ASSY	26-10-00	XXX	OK
				01-250	5637	
		I193A	TUBE	26-11-00	XXX	ROUTED TO CAZ WORN/DAMAGED
				01-080	5628	
		I193A	TUBE	26-11-00	XXX	DAMAGED - ROUTED TO CAZ
				01-240	5636	
		I193A	TUBE	26-11-00	XXX	DAMAGED ROUTED TO CAZ
				01-070	5627	
I193A			TUBE	26-12-00	XXX	OK
				01-260	5638	

ENGINE S/N 62332 ORDER NO: AV578

E	A	C	ITEM NOMENCLATURE	ATA # S/L SEQ	OFFLOG FUNC #	ROUTING / CONDITION
I193A			OIL JET	26-13-00	XXX	OK
				01-050	5625	
I193A			OIL JET	26-13-00	XXX	OK
				01-040	5624	
I193A			OIL JET	26-13-00	XXX	OK
				01-060	5626	
I193A			TRANSFER TUBE	26-14-00	XXX	OK
				01-210	5633	
I193A			GEAR, HI SPEED PINION	26-16-00	XXX	OK
				01-150	2232	
I193A			HOUSING, FILLER	26-21-00	XXX	OK
				01-020	5622	
		I193A	HOUSING, GEN SCVG PUMP	90-02-02	XXX	ROUTED AS ASSY
				60-010	5789	
		I193A	GEAR, SPUR	90-02-03	XXX	ROUTED
				60-030	5791	
		I193A	GEARSHAFT	90-02-03	XXX	ROUTED
				60-040	5792	
		I193A	GEARSHAFT	90-02-03	XXX	ROUTED
				60-050	5793	
		I193A	SEAL ASSY, ENCASED	90-02-02	XXX	ROUTED
				60-020	5790	
		I193A	BEARING, STARTER GEAR	26-00-01	XXX	ROUTED TO CAZ
				05-020	5641	
		I193A	BEARING, INNER RACE	26-00-01	XXX	ROUTED TO CAZ
				05-030	9266	
		I193A	BEARING, BALL	26-00-01	XXX	ROUTED TO CAZ
				05-060	5649	
		I193A	BEARING, SPLINED SHAFT	26-00-01	XXX	ROUTED TO CAZ
				05-090	5648	
I193A		~~I193A~~	GEAR, STARTER DRIVE	26-07-00	XXX	~~ROUTED TO CAZ~~ VOID I193A OK I193A
				05-040	5634	
I193A			CLUTCH, ONE WAY	26-07-01	XXX	OK
				05-080	5640	
		I193A	PLUG, STARTER DRIVE	26-07-02	XXX	HEAVY WEAR
				05-050	5639	ROUTED TO CAZ

ENGINE S/N 62332 ORDER NO: AV578

E	A	C	ITEM NOMENCLATURE	ATA # / S/L SEQ	OFFLOG / FUNC #	ROUTING / CONDITION
I193A			SHAFT, SPLINED	26-07-03	XXX	OK
				05-070	5635	
I193A			ADAPTER, CLUTCH	26-07-04	XXX	OK
				05-010	5706	
		I193A	TENSION WASHER	BOOK 0	XXX	SCRAP 100%
				05-110	5631	
					XXX	
					XXX	
					XXX	
					XXX	
					XXX	
					XXX	
					XXX	

I I193A (3)Check Inspection and Condition Sheet for completion.

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, ACCY GEARCASE

REV. 4/26/07

AV578	62332	V3000.0
ORDER NO.	ENGINE NO.	JOB NO.

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT

S022	V0002.0	- NON-ROUTINE ACCOUNTABILITY
S022 . . S022	V3010.0	ACCY GEARCASE - DISASSEMBLY
S022 . . S022	V3020.0	ACCY GEARCASE - CLEANING
S022 . S022	V3040.0	49-26-01ACCESSORY GEARBOX ASSEMBLY
S022	V4010.0	GEN SCAV PUMP - DISASSEMBLY AND CLEAN
	V4040.0	GEN SCAVENGE PUMP - ASSEMBLY
S022 . . S022	V7010.0	STARTER CLUTCH - DISASSEMBLY/CLEANING
S022 . . S022	V7040.0	STARTER CLUTCH - ASSEMBLY

NOTE - INCLUDE 49-26-01/ICS - ACCESSORY GEARBOX/CLUTCH AY INSPECTION WITH LOG PACKAGE.

S022

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, ACCY GEARCASE

REV. 4/26/07

AV578	62332	V3000.0
ORDER NO.	ENGINE NO.	JOB NO

S022

S022

S022

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

   ASSEMBLY S/N: P209 S022

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

   SIGNATURE: S022 DATE:

END JOB V3000.0 REVISED 4/26/07

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ACCY GEARCASE - DISASSEMBLY

REV. 1/9/98

AV578	62332	V3010.0
ORDER NO.	ENGINE NO.	JOB NO.

M 7066 1. REMOVE EXTERNAL PLUG FROM CENTER OF GEARBOX HOUSING ADJACENT TO THE GENERATOR PAD AND DISCARD OLD PART NUMBER PLUG (WITHOUT KEENSERT). DISCARD O-RING

M 7066 2. REMOVE DISCHARGE TUBE AND OIL JET FROM AROUND CLUTCH ENSURING REMOVAL OF CLAMP, RETAINED TUBE AND FASTENERS.

M 7066 3. REMOVE RETAINER FROM OIL PRESSURE SUPPLY TUBE TO CARRIER.

M 7066 4. REMOVE BEARING RETAINERS FROM PINION AND GENERATOR GEARS.

M 7066 5. REMOVE CARRIER ASSEMBLY FROM GEARBOX HOUSING.

M 7066 6. REMOVE OIL TUBES AND DISCARD O-RINGS.

M 7066 7. REMOVE COOLING FAN IDLER GEAR AND REMOVE BEARINGS WITH 294866-5 ADAPTER, 294870-2 PLATE AND 4020C PULLER.

NOTE - THIN GEAR (.250) PART NUMBER MAY BE DIACARDED WITH BEARINGS PRIOR TO DISASSEMBLY IF THE GEARBOX WAS ROUTED FOR REPLACEMENT OF THE IDLER GEAR.

L962 L 8. CIRCLE AND ACCOMPLISH A OR B BELOW:
WAS ENGINE REVIEWED FOR COOLING FAN IDLER GEAR REPLACEMENT?

A. YES, CALL FOR EXPOSED AREA INSPECTION.

L962 (B). NO, CONTINUE DISASSEMBLY AT SIGN-OFF 10 AND ROUTE DISASSEMBLED GEARBOX FOR CLEANING.

551

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ACCY GEARCASE - DISASSEMBLY

REV. 1/9/98

AV578	62332	V3010.0
ORDER NO.	ENGINE NO.	JOB NO

_____I 9. PERFORM EXPOSED AREA INSPECTION TO CHECK FOR PRESENCE OF OIL JETS, CONDITION OF GEAR TRAIN AND WEAR IN IDLER GEAR LINER. IF MODULE REQUIRES FURTHER DISASSEMBLY BASED ON CONDITION, OFF-LOG MODULE AND RE-REVIEW.

NOTE - NO FURTHER DISASSEMBLY REQUIRED IF CONDITION IS OK.

7066
M_____ 10. REMOVE GENERATOR SCAVENGE PUMP DISCARD O-RINGS AND SEAL.

M 7066 11. REMOVE ALL PLUGS AND FITTINGS FROM EXTERNAL OF GEARBOX. DISCARD O-RINGS.

M 7066 12. REMOVE CAP AND ADAPTER ASSEMBLY, FILLER AND SIGHT GLASS HOUSING, REFLECTOR, PLACARD AND WINDOW. DISCARD O-RINGS.

M 7066 13. DISASSEMBLE JETS FROM CARRIER AND REMOVE REMAINING BEARING RETAINERS. DISCARD O-RINGS.

7066
M_____ 14. REMOVE THE FOLLOWING GEARS AND BEARINGS. (USE TOOL CHART).

GEAR	ADAPTER	PLATE	PULLER
OIL PUMP DRIVE	294866-5	294867-3	4020C
GENERATOR IDLER	294866-1	294867-1	4020C
COMPOUND GEAR	294865-2	294865-2	4020C
GENERATOR DRIVE	294866-4/-6	294870-5	4020C
HIGH SPEED PINION	294866-3	294869-1	4020C

7066
M_____ 15. REMOVE OIL TRANSFER TUBES, OIL JETS AND SCAVENGE TUBE. DISCARD O-RINGS.

END JOB V3010.0 REVISED 1/9/98

L962
_____L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ACCY GEARCASE - CLEANING

REV. 4/27/01

AV578	62332	V3020.0
ORDER NO.	ENGINE NO	JOB NO

1. U L962 UTILITY MECHANIC (U) CLEAN ACCESSORY GEARCASE PER GN 4-0-3-20 PROCESS 01 (SOLVENT CLEAN), AND/OR GN 4-0-3-20 PROCESS 2C.

551

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ACCY GEARCASE - CLEANING

REV. 4/27/01

AV578	62332	V3020.0
ORDER NO.	ENGINE NO	JOB NO

END JOB V3020.0 REVISED 4/27/01

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-26-01ACCESSORY GEARBOX ASSEMBLY

REV. 2/21/06

AV578	62332	V3040.0
ORDER NO.	ENGINE NO.	JOB NO

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-26-01.

ASSIGNED TO ENGINE ORDER NUMBER V6078022

M 7066 1. PREASSEMBLE GEARBOX HOUSING.

M 7066 2. ASSEMBLE BEARINGS ON GEARS.

L962 LM 7066 3. INSTALL GEARS.

L962 LM 7066 4. INSTALL CARRIER.

M 7066 5. INSTALL BEARING RETAINERS.

M 7066 6. ASSEMBLE AND INSTALL GENERATOR SCAVENGE PUMP.

M 7066 7. CIRCLE AND ACCOMPLISH A OR B BELOW.

WAS ENGINE REVIEWED FOR COOLING FAN IDLER GEAR REPLACEMENT?

A. YES, NO FURTHER SIGNOFF REQUIRED.

NOTE - STEPS 1 THROUGH 6 ABOVE REPRESENT ONLY PARTIAL ASSEMBLY OF THE EXPOSED PARTS TO ACCOMPLISH THE COOLING FAN IDLER GEAR CHANGE.

L962 B. NO, CONTINUE WITH ASSEMBLY STEPS.

M 7066 8. ASSEMBLE AND INSTALL GENERATOR SCAVENGE PUMP.

M 7066 9. ASSEMBLE AND INSTALL STARTER CLUTCH.

M 7066 10. INSTALL EXTERNAL PARTS.

L962 L 11. FINAL LEAD CHECK.

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

551

ENGINE MAINTENANCE DEPARTMENT

UNITED

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-26-01ACCESSORY GEARBOX ASSEMBLY

REV. 2/21/06

AV578	62332	V3040.0
ORDER NO.	ENGINE NO	JOB NO

END JOB V3040.0 REVISED 2/21/06

L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1. Approving National Aviation Authority/Country	2	3 Form Tracking Number*
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG**	67141

4. Organization Name and Address	5 Work Order/Contract/Invoice Number
Ohlinger Industries, Incorporated 1211 West Melinda Lane, Phoenix, AZ 85027 FAA Repair Station No OHRR712K	AU6848

6 Item:	7. Description	8 Part Number:	9 Eligibility* *	10 Quantity	11 Serial/Batch Number*	12 Status/Work
1	HSG ASSY GEARBOX	3862699-3	N/A	1	9P-16254	REPAIRED

13. Remarks FPI, R-R DISCREPANT HARDWARE DER EA03-60 REV 00, 7/17/03
SLEEVE DISCREPANT P/M BORES, CHEMFILM
METAL SPRAY

WORK ACCOMPLISHED PER HONEYWELL MANUAL 49-23-49 REV 30, 09/30/09, SERVICE BULLETIN N/A, WORK ORDER, 67141
WORK ACCOMPLISHED AND/OR SUPERVISED BY MARK DOMSHER
OHLINGER INDUSTRIES INC CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12 AND 13 WAS PERFORMED IN ACCORDANCE WITH EASA PART-145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA 145 4708 APPROVAL CERTIFICATE

14 Certifies the items identified above were manufactured in conformity to.	19. ☒ 14 CFR 43.9 Return To Service ☒ Other Regulation Specified in Block 13
☐ Approved design data and are in condition for safe operation. ☐ Non-approved design data specified in block 13.	Certifies that unless otherwise specified in block 13, the work identified in block 12 and described in block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15 Authorized Signature.	16. Approval/Authorization No :	20 Authorized Signature.	21. Approval/Certificate No
		Alan Davis	OHRR712K
17 Name (typed or printed)*	**18. Date:**	**22. Name (typed or printed):**	**23 Date***
		ALAN DAVIS	Oct/22/2009

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in block 1

Statements in block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

* Installer must cross check eligibility with applicable technical data

pc-dmis	PART NAME 3862899HSG		October 22, 2009	06:08
	REV NUMBER . NC	SER NUMBER : 67141	STATS COUNT : 1	

	IN	LOC1 - CL1 LINER B

AX	NOMINAL	+TOL	-TOL	MEAS	DEV	OUTTOL
D	2 1661	0.0005	0.0000	2.1666	0.0005	0.0000
RN	0.0000	0.0005	0.0000	0.0002	0.0002	0.0000

FCFPERP1	IN	⊥ Ø0 001 Ⓢ A

Feature	NOMINAL	+TOL	-TOL	MEAS	DEV	OUTTOL
LINER B	0 0000	0.0010	0.0000	0.0001	0.0001	0.0000

FCFPERP2	IN	⊥ Ø0 001 Ⓢ A

Feature	NOMINAL	+TOL	-TOL	MEAS	DEV	OUTTOL
LINER C CL2	0.0000	0.0010	0.0000	0.0001	0.0001	0.0000

	IN	LOC2 - CL2 LINER C

AX	NOMINAL	+TOL	-TOL	MEAS	DEV	OUTTOL	BONUS
Y	2.9000	0	0	2 9002	0 0002	0	0
Z	1 4470	0	0	1.4469	-0.0001	0	0
DF	1.8512	0.0005	0.0000	1 8512	0.0000	0.0000	0.0000
RN	0.0000	0.0005	0 0000	0.0004	0 0004	0.0000	0
TP	MMC	0.0030	0	0	0.0004	0.0000	0.0000

FCFPERP3	IN	⊥ Ø0 001 Ⓢ A

Feature	NOMINAL	+TOL	-TOL	MEAS	DEV	OUTTOL
LINER D CL3	0 0000	0.0010	0.0000	0.0001	0.0001	0.0000

	IN	LOC3 - CL3 LINER D

AX	NOMINAL	+TOL	-TOL	MEAS	DEV	OUTTOL	BONUS
Y	0.9603	0	0	0.9604	0 0001	0	0
Z	-2.1700	0	0	-2 1701	-0.0001	0	0
DF	1 8519	0.0005	0 0000	1 8523	0 0004	0.0000	0.0004
RN	0.0000	0.0005	0.0000	0 0002	0 0002	0.0000	0
TP	MMC	0.0030	0	0	0 0002	0 0000	0.0004

	IN	LOC4 - CL4 LINER E

AX	NOMINAL	+TOL	-TOL	MEAS	DEV	OUTTOL	BONUS
Y	0.0000	0	0	0.0000	0.0000	0	0
Z	-6.3378	0	0	-6.3375	0.0003	0	0
DF	2.8359	0.0005	0.0000	2.8361	0.0002	0.0000	0.0002
RN	0.0000	0.0005	0.0000	0 0002	0 0002	0 0000	0
TP	MMC	0.0030	0	0	0 0005	0.0000	0.0002

FCFPERP4	IN	⊥ Ø0.001 Ⓢ A

Feature	NOMINAL	+TOL	-TOL	MEAS	DEV	OUTTOL
LINER E CL4	0 0000	0.0010	0.0000	0.0001	0.0001	0.0000

FCFPERP5	IN	⊥ Ø0.001 Ⓢ A				
Feature	NOMINAL	+TOL	-TOL	MEAS	DEV	OUTTOL
LINER F CL5	0.0000	0.0010	0.0000	0.0001	0.0001	0.0000

⌖	IN	LOC5 - CL5 LINER F					
AX	NOMINAL	+TOL	-TOL	MEAS	DEV	OUTTOL	BONUS
Y	-0.2190	0	0	-0.2187	0.0003	0	0
Z	4.3780	0	0	4.3777	-0.0003	0	0
DF	1.3787	0.0005	0.0000	1.3788	0.0001	0.0000	0.0001
RN	0.0000	0.0005	0.0000	0.0001	0.0001	0.0000	0
TP	MMC	0.0030	0	0	0.0008	0.0000	0.0001

FCFPERP6	IN	⊥ Ø0.001 Ⓢ A				
Feature	NOMINAL	+TOL	-TOL	MEAS	DEV	OUTTOL
LINER H CL7	0.0000	0.0010	0.0000	0.0001	0.0001	0.0000

⌖	IN	LOC7 - CL7 LINER H					
AX	NOMINAL	+TOL	-TOL	MEAS	DEV	OUTTOL	BONUS
Y	6.4093	0	0	6.4089	-0.0004	0	0
Z	1.3100	0	0	1.3100	0.0000	0	0
DF	1.5755	0.0005	0.0000	1.5757	0.0002	0.0000	0.0002
RN	0.0000	0.0005	0.0000	0.0002	0.0002	0.0000	0
TP	MMC	0.0030	0	0	0.0007	0.0000	0.0002

FCFPERP8	IN	⊥ Ø0.001 Ⓢ A				
Feature	NOMINAL	+TOL	-TOL	MEAS	DEV	OUTTOL
CL6 PM J	0.0000	0.0010	0.0000	0.0002	0.0002	0.0000

⌖	IN	LOC14 - CL6 J					
AX	NOMINAL	+TOL	-TOL	MEAS	DEV	OUTTOL	BONUS
Y	4.7219	0	0	4.7217	-0.0002	0	0
Z	4.6720	0	0	4.6715	-0.0004	0	0
DF	3.3119	0.0003	0.0003	3.3116	-0.0003	0.0000	0.0000
RN	0.0000	0.0006	0.0000	0.0005	0.0005	0.0000	0
TP	MMC	0.0030	0	0	0.0010	0.0000	0.0000

FCFPERP7	IN	⊥ Ø0.001 Ⓢ A				
Feature	NOMINAL	+TOL	-TOL	MEAS	DEV	OUTTOL
DR	0.0000	0.0010	0.0000	0.0000	0.0000	0.0000

⌖	IN	LOC13 - CL8 DIA DR					
AX	NOMINAL	+TOL	-TOL	MEAS	DEV	OUTTOL	BONUS
Y	7.7993	0	0	7.7981	-0.0012	0	0
Z	0.0000	0	0	-0.0008	-0.0008	0	0
DF	1.9895	0.0005	0.0005	1.9899	0.0004	0.0000	0.0009
TP	MMC	0.0030	0	0	0.0029	0.0000	0.0009

OMB Control No 2120-0018 09/30/2007

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	10872638

4 Organization Name and Address		5 Work Order/Contract/Invoice Number
HONEYWELL INTERNATIONAL INC 111 SOUTH 34th STREET PHOENIX AZ 85072 PRODUCTION APPROVAL, PC413NM	M & M AEROSPACE HARDWARE, INC 10000 N W 15th TERRACE MIAMI FL 33172	7589524 001 Page 1 Of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch Number	12 Status/Work
001	BEARING	358027	N/A	4 EA	Lot# 0901040268 Expires: 12/01/2010 MLot:3467042363	NEW

13 Remarks AIRWORTHINESS APPROVAL
DIRECT SHIPMENT AUTHORIZATION - OCT 17 2008
Customer P.O. # BU0851

14 Certifies the items identifed above were manufactured in conformity to

[X] Approved design data and are in a condition for safe operation

[ ] Non-approved design data specified in Block 13

19 [ ] 14 CFR 43 9 Return to Service [ ] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Kerry L. Vogt	ODARF602216NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Kerry L. Vogt	Oct 02 2009		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 & 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

Paperwork Reduction Act Statement An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number associated with this collection of information is 2120-0018 Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at 800 Independence Ave SW, Washington, DC 20591, Attn Information Collection Clearance Officer, ABA-20

OMB Control No 2120-0018 09/30/2007

1 Approving National Aviation Authority/Country
FAA/United States

2
AUTHORIZED RELEASE CERTIFICATE
FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3 Form Tracking Number
10872638

4 Organization Name and Address
HONEYWELL INTERNATIONAL INC
111 SOUTH 34th STREET
PHOENIX AZ 85072
PRODUCTION APPROVAL, PC413NM

M & M AEROSPACE HARDWARE, INC
10000 N W 15th TERRACE
MIAMI FL 33172

5 Work Order/Contract/Invoice Number
7589524 001

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch Number	12 Status/Work
001	BEARING	358027	N/A	4 EA	Lot# 0901040268 Expires. 12/01/2010 MLot 3467042363	NEW

13 Remarks
AIRWORTHINESS APPROVAL
DIRECT SHIPMENT AUTHORIZATION - OCT 17 2008
Customer P.O. # BU0851

14 Certifies the items identified above were manufactured in conformity to

- [X] Approved design data and are in a condition for safe operation
- [ ] Non-approved design data specified in Block 13

19 [ ] 14 CFR 43 9 Return to Service [ ] Other regulation specified in Block 13
Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Kerry L Vogt	ODARF602216NM		
17 Name (Typed or Printed) Kerry L. Vogt	18 Date (m d y) Oct 02 2009	22 Name (Typed or Printed):	23 Date (m d y)

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, *it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified* in Block 1

Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

Paperwork Reduction Act Statement An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number associated with this collection of information is 2120-0018 Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at 800 Independence Ave SW, Washington, DC 20591, Attn Information Collection Clearance Officer, ABA-20

1 Approving National Aviation Authority/Country	2 AUTHORIZED RELEASE CERTIFICATE	3 Form Tracking Number 376672
FAA/UNITED STATES	FAA FORM 8130-3,AIRWORTHINESS APPROVAL TAG	Sales Order / Line / Work Order 18471 / 57 / 596116

4 OrganizationName BEARING INSPECTION, INC FAA Repair Station SP3R849L

Address A TIMKEN COMPANY
4422 CORPORATE CENTER DRIVE
LOS ALAMITOS CA-90720-2539 USA

5 P.O.,Contract,or Invoice Number AU6480 - 1

Customer No 43415

6 Item	7 Description	8 Part No	9 Eligibility *	10.Quantity	11 Serial/Batch No	12 Status/Work
1	GTCP331 ACCESSORY BALL BEARING	3860160-1	N/A	1	UA03-S1998-325	OVERHAULED

13 Remarks Return to service

Documents describing the actual work performed are on file at BEARING INSPECTION, INC

BEARING REFURBISHED/RECONDITION IN ACCORDANCE WITH FAA APPROVED PRODUCT SPEC C747 REV L AND INSPECTED IAW HONEYWELL GTCP331 EM, 49-23-49 REV 28 MAR/31/2009

14. certifies the item identified above were manufactured in conformity to

☐ Approved design and are in a condition for safe operation.

☐ Non-approved design data specified in Block 13

19 ☒ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in block 13 , the work identified in Block 12 and described in block 13, was accomplished with Title 14, Code of Federal Regulations, part 43 and in respect to the work, the items are approved for return to service

15.Authorized Signature	16.Approval Authorization No:	20 Authorized Signature	21 Approval/Certificate No
			SP3R849L
17. Name(Typed or Printed) N/A	18.Date(d/m/y) N/A	22 Name (typed or Printed) GREGORY A FAJARDO	23. Date(m/d/y) JUL/13/2009

User/Installer Responsibilities

It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs works in accordance with the national regulations of an airworthiness authority different than the Airworthiness Authority of the country specified in Block 1 it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Block 14 and 19 do not constitute installation certification In all cases,aircraft maintenance records must contain an installation certification issued in accordance with the national regulation by the user/installer before the aircraft may be flown

OMB Control No. 2120-0018 09/30/2007

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	10869575

4 Organization Name and Address.		5 Work Order/Contract/Invoice Number
HONEYWELL INTERNATIONAL INC 111 SOUTH 34th STREET PHOENIX AZ 85072 PRODUCTION APPROVAL; PC413NM	M & M AEROSPACE HARDWARE, INC 10000 N W. 15th TERRACE MIAMI FL 33172	7564553 001 Page 1 Of 1

6 Item.	7 Description	8 Part Number	9. Eligibility *	10 Quantity	11 Serial/Batch Number	12 Status/Work.
001	BEARING	3860495-1	N/A	2 EA	Lot# 0909009302 MLot 41091	NEW

13 Remarks AIRWORTHINESS APPROVAL
DIRECT SHIPMENT AUTHORIZATION - OCT 17 2008
Customer P.O. # BU0841

14 Certifies the items identified above were manufactured in conformity to

- [X] Approved design data and are in a condition for safe operation
- [ ] Non-approved design data specified in Block 13

19 [ ] 14 CFR 43 9 Return to Service [ ] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Kerry L. Vogt	ODARF602216NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23. Date (m d y)**
Kerry L. Vogt	Sep 16 2009		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

Paperwork Reduction Act Statement An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number associated with this collection of information is 2120-0018 Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at: 800 Independence Ave. SW, Washington, DC 20591, Attn. Information Collection Clearance Officer, ABA-20

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number 382858
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA FORM 8130-3,AIRWORTHINESS APPROVAL TAG**	Sales Order / Line / Work Order **18945 / 7 / 606185**

4 Organization Name	**BEARING INSPECTION, INC**	FAA Repair Station SP3R849L	5 P O ,Contract,or Invoice Number	Customer No
Address	**A TIMKEN COMPANY** 4422 CORPORATE CENTER DRIVE LOS ALAMITOS CA-90720-2539 USA		**AU6822 - 1**	**43415**

6 Item	7 Descnption	8 Part No	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
1	GTCP331 ACCESSORY ROLLER BEARING	3860173-1	N/A	1	UA05S1998-110	OVERHAULED

13 Remarks Return to service

Documents describing the actual work performed are on file at BEARING INSPECTION, INC

BEARING REFURBISHED/RECONDITIONED IN ACCORDANCE WITH FAA APPROVED PRODUCT SPEC C747 REV L AND INSPECTED IAW HONEYWELL GTCP331 EM, SEC 49-23-49, REV 29 JUN/30/2009.

14 certifies the item identified above were manufactured in conformity to:	19 [X] 14 CFR 43 9 Return to Service [ ] Other regulation specified in Block 13
[ ] Approved design and are in a condition for safe operation [ ] Non-approved design data specified in Block 13	Certifies that unless otherwise specified in block 13 , the work identified in Block 12 and described in block 13, was accomplished with Title 14, Code of Federal Regulations, part 43 and in respect to the work, the items are approved for return to service

15 Authorized Signature	16 Approval Authorization No	20 Authorized Signature	21 Approval/Certificate No
		Mike Lambert	**SP3R849L**
17 Name(Typed or Printed) N/A	18.Date(d/m/y). N/A	22 Name (typed or Printed) **MIKE A LAMBERT**	23 Date(m/d/y) **SEP/28/2009**

User/Installer Responsibilities

It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs works in accordance with the national regulations of an airworthiness authority different than the Airworthiness Authority of the country specified in Block 1 it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Block 14 and 19 do not constitute installation certification In all cases,aircraft maintenance records must contain an installation certification issued in accordance with the national regulation by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA FORM 8130-3,AIRWORTHINESS APPROVAL TAG**	**377816** Sales Order / Line / Work Order **18663 / 13 / 598715**

4 Organization Name **BEARING INSPECTION, INC** FAA Repair Station SP3R849L

Address **A TIMKEN COMPANY**
4422 CORPORATE CENTER DRIVE
LOS ALAMITOS CA-90720-2539 USA

5 P O ,Contract,or Invoice Number **AU6563 - 1**

Customer No **43415**

6 Item	7 Description	8 Part No	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
1	GTCP331 ACCESSORY ROLLER BEARING	3860173-1	N/A	1	UA05S1998-560	OVERHAULED

13 Remarks Return to service

Documents describing the actual work performed are on file at BEARING INSPECTION, INC.

BEARING REFURBISHED/RECONDITIONED IN ACCORDANCE WITH FAA APPROVED PRODUCT SPEC. C747 REV L AND INSPECTED IAW HONEYWELL GTCP331 EM, SEC 49-23-49, REV 29 JUN/30/2009

14. certifies the item identified above were manufactured in conformity to

☐ Approved design and are in a condition for safe operation

☐ Non-approved design data specified in Block 13

19. ☒ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in block 13 , the work identified in Block 12 and described in block 13, was accomplished with Title 14, Code of Federal Regulations, part 43 and in respect to the work, the items are approved for return to service

15.Authorized Signature	16.Approval Authorization No	20 Authorized Signature	21 Approval/Certificate No
			SP3R849L
17 Name(Typed or Printed) **N/A**	18 Date(d/m/y) **N/A**	22 Name (typed or Printed) **LEON E PEREZ**	23 Date(m/d/y) **JUL/27/2009**

User/Installer Responsibilities

It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs works in accordance with the national regulations of an airworthiness authority different than the Airworthiness Authority of the country specified in Block 1 it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Block 14 and 19 do not constitute installation certification In all cases,aircraft maintenance records must contain an installation certification issued in accordance with the national regulation by the user/installer before the aircraft may be flown

AW2427

OMB Control No 2120-0018
09/30/2007

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890000668265Y14 83355063-10

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		AW2307 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	GEARSHAFT AY SPUR, B	3860180-6	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS PART IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to

- [X] Approved design data and are in a condition for safe operation
- [ ] Non-approved design data specified in Block 13

19 [ ] 14 CFR 43 9 Return to Service [ ] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Gabriela Capatina	ODARF602216NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Gabriela Capatina	**JUL 22 2009**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/Installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

FAA form 8130 - 3 (6-01) * Installer must cross check eligibility with applicable technical data NSN 0052 - 00 - 012 - 9005

Paperwork Reduction Act Statement
An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number associated with this collection of information is 2120-0018
Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at 800 Independence Ave SW, Washington, DC 20591, Attn Information Collection Clearance Officer, ABA-20

OMB Control No 2120-0018
09/30/2007

1 Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	20090923D624-6788630

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
Dixie Aerospace, Inc – 473 Dividend Drive Peachtree City, GA 30269 U S A. PQ1630CE	BU0845

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	BEARING, BALL	358024WD	N/A	2	291061/01	NEW
2	BEARING, BALL	3614423-1WD	N/A	1	309277, Serial No SH10636	NEW
3	BEARING, BALL	892576-1WD	N/A	3	N/A	NEW

13. Remarks:

AIRWORTHINESS APPROVAL – For Domestic Shipments Only

For complete eligibility, see www wencor com

Item 1 DCN B05089

Item 2 DCN A76366A

Item 3 DCN 856886

14 Certifies the items identified above were manufactured in conformity to:

☑ Approved design data and are in a condition for safe operation.
☐ Non-approved design data specified in Block 13.

19: ☐ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
	DARF830583CE	N/A	N/A
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
G. Randall Burton	SEP/23/2009	N/A	N/A

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

OMB Control No 2120-0018
09/30/2007

1. Approving National Aviation Authority/Country:	2.	3 Form Tracking Number.
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130–3, AIRWORTHINESS APPROVAL TAG	20090806D511-6563160

4. Organization Name and Address·	5. Work Order/Contract/Invoice Number
Dixie Aerospace, Inc – 473 Dividend Drive Peachtree City, GA 30269 U S A PQ1630CE	BU0829

6. Item	7. Description·	8. Part Number.	9 Eligibility: *	10. Quantity:	11. Serial/Batch Number	12. Status/Work:
1	BEARING, BALL, ANNULAR	358024WD	N/A	4	See Below	NEW
2	BEARING, BALL, ANNULAR	3614423-1WD	N/A	2	10633, 10634	NEW

13. Remarks·

AIRWORTHINESS APPROVAL – For Domestic Shipments Only

For complete eligibility, see www wencor com

Item 1 Lot/Batch Number – 291061/01 (DCN B05089)

Item 2: Lot/Batch Number – 309277 (DCN A76366-A)

14. Certifies the items identified above were manufactured in conformity to:	19. ☑ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13
☑ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13.	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15 Authorized Signature·	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
	DARF830583CE	N/A	N/A
17. Name (Typed or Printed):	**18 Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
G Randall Burton	AUG/06/2009	N/A	N/A

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

BU0828

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3479610

4 Organization Name and Address: WENCOR WEST, INC CAGE Code - 26647
1625 North 1100 West, Springville, Utah 84663-0514
Phone. (801)489-2000 Fax: (801)489-2199 ARINC/SITA SLCWEXD (PQ1370NM)

5 Work Order/Contract/Invoice Number: BU0526

6. Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch Number	12 Status/Work
1	BEARING,BALL	358457-1WE	N/A	20	See Below	NEW

13 Remarks
1 S/N N.A BAT N/A DCN A15777
See www wancor com for complete eligibility

Not for Export Outside of the United States of America

14 Certifies the items identified above were manufactured in conformity to
☒ Approved design data and are in a condition for safe operation
☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13
Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Bryan S Wood	ODARF601415NM	N/A	N/A
17 Name (Typed or Printed)	**18 Date (m/d/y)**	**22 Name (Typed or Printed)**	**23 Date (m/d/y)**
Bryan S. Wood	NOV/15/2007	N/A	N/A

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1 ApprovingNationalAviation Authority/Country	2	3 Form Tracking Number 384234
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA FORM 8130-3,AIRWORTHINESS APPROVAL TAG**	Sales Order / Line / Work Order **18945 / 17 / 607537**

4 OrganizationName **BEARING INSPECTION, INC** FAA Repair Station SP3R849L
Address **A TIMKEN COMPANY**
4422 CORPORATE CENTER DRIVE
LOS ALAMITOS CA-90720-2539 USA

5 P O ,Contract,or Invoice Number **AU6856 - 1**
Customer No **43415**

6 Item	7 Description	8 Part No	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
1	GTCP331 ACCESSORY BALL BEARING	3605094-1	N/A	1	UA06S1998-216	OVERHAULED

13 Remarks Return to service

Documents describing the actual work performed are on file at BEARING INSPECTION, INC

BEARING REFURBISHED/RECONDITIONED IN ACCORDANCE WITH FAA APPROVED PRODUCT SPEC C747 REV L AND INSPECTED IAW HONEYWELL GTCP331 EM, SEC 49-23-49, REV 30 SEP/30/2009

14 certifies the item identified above were manufactured in conformity to:
☐ Approved design and are in a condition for safe operation
☐ Non-approved design data specified in Block 13.

19 ☒ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13
Certifies that unless otherwise specified in block 13 , the work identified in Block 12 and described in block 13, was accomplished with Title 14, Code of Federal Regulations, part 43 and in respect to the work, the items are approved for return to service

15 Authorized Signature	16.Approval Authorization No	20 Authorized Signature	21 Approval/Certificate No
		Mike Lambert	SP3R849L
17 Name(Typed or Printed) N/A	18.Date(d/m/y) N/A	22 Name (typed or Printed) **MIKE A LAMBERT**	23 Date(m/d/y) **OCT/12/2009**

User/Installer Responsibilities

It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs works in accordance with the national regulations of an airworthiness authority different than the Airworthiness Authority of the country specified in Block 1 it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Block 14 and 19 do not constitute installation certification In all cases,aircraft maintenance records must contain an installation certification issued in accordance with the national regulation by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA FORM 8130-3,AIRWORTHINESS APPROVAL TAG**	**384137** Sales Order / Line / Work Order **18945 / 16 / 607536**

4 Organization Name Address	5 P O ,Contract,or Invoice Number	Customer No
BEARING INSPECTION, INC. FAA Repair Station SP3R849L **A TIMKEN COMPANY** 4422 CORPORATE CENTER DRIVE LOS ALAMITOS CA-90720-2539 USA	**AU6855 - 1**	**43415**

6 Item	7 Description	8 Part No	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
1	GTCP331 ACCESSORY BALL BEARING	**3605094-1**	**N/A**	**1**	**UA06S1998-215**	**OVERHAULED**

13 Remarks Return to service

Documents describing the actual work performed are on file at BEARING INSPECTION, INC.

BEARING REFURBISHED/RECONDITIONED IN ACCORDANCE WITH FAA APPROVED PRODUCT SPEC C747 REV L AND INSPECTED IAW HONEYWELL GTCP331 EM, SEC 49-23-49, REV 30 SEP/30/2009.

14 certifies the item identified above were manufactured in conformity to:	19 [X] 14 CFR 43 9 Return to Service [ ] Other regulation specified in Block 13
[ ] Approved design and are in a condition for safe operation. [ ] Non-approved design data specified in Block 13	Certifies that unless otherwise specified in block 13 , the work identified in Block 12 and described in block 13, was accomplished with Title 14, Code of Federal Regulations, part 43 and in respect to the work, the items are approved for return to service

15 Authorized Signature.	16 Approval Authorization No	20 Authorized Signature	21 Approval/Certificate No
		Mike Lambert	**SP3R849L**
17 Name(Typed or Printed) **N/A**	18.Date(d/m/y) **N/A**	22 Name (typed or Printed) **MIKE A LAMBERT**	23 Date(m/d/y) **OCT/09/2009**

User/Installer Responsibilities

It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs works in accordance with the national regulations of an airworthiness authority different than the Airworthiness Authority of the country specified in Block 1 it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Block 14 and 19 do not constitute installation certification In all cases,aircraft maintenance records must contain an installation certification issued in accordance with the national regulation by the user/installer before the aircraft may be flown

N/A

N/A

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	6514560

4 Organization Name and Address: WENCOR WEST, INC CAGE Code - 26647
1625 North 1100 West, Springville, Utah 84663-0514
Phone: (801)489-2000 Fax: (801)489-2199 ARINC/SITA SLCWEXD (PQ1370NM)

5. Work Order/Contract/Invoice Number: BU0824

6. Item.	7 Description	8 Part Number.	9. Eligibility.*	10 Quantity	11 Serial/Batch Number	12 Status/Work
1	BEARING,BALL	358457-1WE	N/A	4	S/N N/A BAT N/A	NEW
2	BEARING BALL, O	3860496-1WE	N/A	2	S/N N/A BAT N/A SN 00189, 190 DS 7/28/09	NEW

13 Remarks*
1 DCN 831823
2 DCN 813307
See www wencor com for complete eligibility

Not for Export Outside of the United States of America

14 Certifies the items identified above were manufactured in conformity to
- [x] Approved design data and are in a condition for safe operation
- [ ] Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13
Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature.	21 Approval/Certificate No
	ODARF601415NM	N/A	N/A
17. Name (Typed or Printed).	**18 Date (m/d/y)**	**22 Name (Typed or Printed)**	**23 Date (m/d/y)**
David W. Sturm	JUL/27/2009	N/A	N/A

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

FAA Form 8130-3 (6-01) *Installer must cross check eligibility with applicable technical date NSN. 0052-00-012-9005

BU0826

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890000154205Y14 82447196-20

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street PHOENIX AZ 85072	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	Production Approval PT1222NM	42315-000 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	GEAR SPUR FAN, BOEIN	3860169-5	N/A	1	N/A	NEW

13 Remarks AIRWORTHINESS APPROVAL- FOR DOMESTIC SHIPMENTS ONLY

THIS PART IS A SUBCOMPONENT OF A TSO AUTHORIZATION
ALL SERIALIZATION NOT REFERENCED HERE IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Margo Marion	**ODARF602216NM**		
17 Name (Typed or Printed)	**18 Date (m/d/y)**	**22 Name (Typed/Printed)**	**23 Date (m/d/y)**
Margo Marion	**JUL/18/2008**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/Installer performs work in accordance with national regulations of an Airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the Airworthiness authority of the country specified in Block1 Statements in Block 14 & 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification isssued in accordance with the national regulations by the User/Installer before the aircraft may be flown

AU 6847

OMB Control No 2120-0018
09/30/2007

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890000715973Y15 304574022

4 Organization Name and Address		5 Work Order/Contract/Invoice Number
Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	Repair Station ZN3R030M	N/A 304526522 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	PUMP ASSEMBLY GENERATOR SCAVENGE	3880200-6	N/A	1	N/A	OVERHAULED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH
ATD CMM 49-27-15 Rev 3, MAR/15/1995

Additional Information

Alternate SN outgoing A-1505
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to		19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature Renoo Ziegler	21 Approval/Certificate No **ZN3R030M**
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed) **Renoo Ziegler**	23 Date (m d y) **AUG 21 2009**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases aircraft maintanance records must contain an installation certfication issued in accordance with the national regulations by the user/installer before the aircraft may be flown

FAA form 8130 - 3 (6-01) * Installer must cross check eligibility with applicable technical data NSN 0052 - 00 - 012 - 9005

Paperwork Reduction Act Statement
An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number associated with this collection of information is 2120-0018
Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at 800 Independence Ave SW Washington, DC 20591, Attn Information Collection Clearance Officer, ABA-20

Phoenix - Sky Harbor
Honeywell International Inc
1944 E Sky Harbor Circle
PHOENIX AZ 85034

Honeywell

Repair Station ZN3R030M

Date 21 AUG 2009

Configuration And Findings Evaluation

Repair Order: 2009-304526522-001 304574022 **Customer.** 330407 CHROMALLOY ARIZONA

Customer P/O: AW2309 **Orig Cust:**

Part Number. 3880200-6 **Part Desc:** PUMP ASSEMBLY GENERATOR SCAVENGE **Serial No:**

Mods:

Series/Issue/Amdts:

Quantity: 1 **Ship Date.** **Received Date:** 21 JUL 2009

Aircraft tail #: **Aircraft S/N#:** **Date on:** **Date off:**

Model #: APU 331-200/250 **Engine S/N:** **Alternate S/N.**

TIMES / CYCLES

Time Since New: **Cycles Since New:**

Time Since Overhaul: **Cycles Since Overhaul:**

Time Since Repair: **Cycles Since Repair:**

CUSTOMER REASON FOR RETURN

storefront exchange

GENERAL CONDITION AS RECEIVED (HIDDEN DAMAGE)

Condition Received Text

Dirty and oily

Reason for return Code OTHER, DESCRIBED IN REMARKS

Removal Type Scheduled

DETAIL DISASSEMBLY / EVALUATION FINDINGS

Failure Description:

Findings:

Related Area: **Non-conformance:** WORN OR WORN OUT **Recurrent Failure:** No

Failed Part	Part Name	Condition:	Primary Failure
3880267-1	SEAL PL ENCSD	Worn	Yes

SERVICE BULLETINS / AUTHORIZING DOCUMENTS

Authorizing Technical Document

Doc# CMM 49-27-15 Rev 3 Date. 03/15/1995

WORK PERFORMED / COMMENTS TO CUSTOMER

Workscope Performed / Summary of Actions Taken

Overhauled, tested and returned to service

Action Taken Code Overhaul

Customer Confirmed Removal Reason:

Evaluation Type Evaluated - Minor Fault Found

Phoenix - Sky Harbor
Honeywell International Inc
1944 E Sky Harbor Circle
PHOENIX AZ 85034

Honeywell

Repair Station ZN3R030M

Date 21 AUG 2009

Configuration And Findings Evaluation

Repair Order: 2009-304526522-001
304574022

Customer. 330407 CHROMALLOY ARIZONA

Customer P/O: AW2309

Orig Cust:

Part Number. 3880200-6

Part Desc: PUMP ASSEMBLY GENERATOR SCAVENGE

Serial No:

Mods:

Series/Issue/Amdts:

Quantity: 1

Ship Date.

Received Date: 21 JUL 2009

FINAL CONFIGURATION **Part No** 3880200-6 **S/N:**

Mods.

Series/Issue/Amdts:

MECHANIC/ANALYST Michael Mazurowski **DATE:** 13 AUG 2009

Acceptance Test Data Summary Sheet

Honeywell

Part Number: 3880200-6 **Part Name** PUMP ASSEMBLY GENERATOR SCAVENGE

Serial Number:

Insp Lot Number: 890000705114 **Order Number:** 5002733344

General Info

General Information & Test Set Up	Refer to technical data for all test condition requirements Specifications Number of nonconforming units	Result	NV

Test Point 1 - Sea Level

Oil Inlet Temperature	Specifications 65 115 °F	Result 85	A
Pump Speed	Specifications 8045 8085 rpm	Result 8069	A
Pressure Pump, Inlet Pressure - TP1	Specifications 28 30 InHgA	Result 29	A
Pressure Pump, Discharge Pressure	Specifications 20 40 psig	Result 30	A
Oil Flow (GPM) - TP1	Specifications > = 8 3 GALMIN	Result 2116 0	A
Oil Flow (GPM) - TP1	Specifications > = 8 3 GALMIN	Result 10 1	A

Test Point 2 - Altitude

Oil Flow (GPM) TP2	Specifications > = 6 3 GALMIN	Result 8.9	A
Oil Flow (Hz) - TP2	Specifications No specifications	Result 1866	A
Pressure Pump, Discharge Pressure	Specifications 20 40 psig	Result 30	A
Pressure Pump, Inlet Pressure - TP2	Specifications 13 15 InHgA	Result 14	A
Pump Speed	Specifications 8045 8085 rpm	Result 8069	A
Oil Inlet Temperature	Specifications 65 115 °F	Result 85	A

Final Audit

Final Test	Specifications Type of Test	Result 0040 Final	A
Comments	Specifications Yes/No	Result 12 No	A

Unit Result: ACCEPTED

Test Technician E031473 Test Date 08/14/2009
Time 11 58 57

A = Accepted R = Rejected NV = No Valuation

OMB Control No 2120-0018
09/30/2007

1. Approving National Aviation Authority/Country:	2	3 Form Tracking Number*
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	20090701D441-6395980

4. Organization Name and Address*	5. Work Order/Contract/Invoice Number*
Dixie Aerospace, Inc. – 473 Dividend Drive Peachtree City, GA 30269 U S A PQ1630CE	BU0808

6 Item.	7. Description*	8. Part Number	9. Eligibility: *	10 Quantity*	11 Serial/Batch Number*	12. Status/Work
1	BEARING, BALL, ANNULAR	358042WD	N/A	10	See Below	NEW
2	BEARING, BALL, ANNULAR	3614423-1WD	N/A	5	10597, 10629, 10628, 10583, 10600	NEW

13 Remarks*

AIRWORTHINESS APPROVAL – For Domestic Shipment Only

For complete eligibility, see www wencor com

Item 1 Lot/Batch Number – 291061/01 (DCN B05089)

Item 2 Lot/Batch Number – 309277 (DCN A76366-A)

14. Certifies the items identified above were manufactured in conformity to:	19. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13
☑ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13.	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15 Authorized Signature:	16 Approval/Authorization No.:	20. Authorized Signature*	21. Approval/Certificate No.:
	DARF830583CE	N/A	N/A
17. Name (Typed or Printed):	**18 Date (m/d/y):**	**22. Name (Typed or Printed)***	**23. Date (m/d/y)***
G Randall Burton	JUL/01/2009	N/A	N/A

User/Installer Responsibilities

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1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	10862163

4 Organization Name and Address		5 Work Order/Contract/Invoice Number
HONEYWELL INTERNATIONAL INC 111 SOUTH 34th STREET PHOENIX AZ 85072 PRODUCTION APPROVAL, PT1222NM	M & M AEROSPACE HARDWARE, INC 10000 N W 15th TERRACE MIAMI FL 33172	7507637 003 Page 1 Of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch Number	12 Status/Work.
001	WASHER	3610875-2	N/A	2 EA	Lot# 0812018120 MLot WO-01493/1 0	NEW

13 Remarks

AIRWORTHINESS APPROVAL
DIRECT SHIPMENT AUTHORIZATION - OCT 17 2008
Customer P.O # BU0827

This part is a subcomponent of a TSO authorization

14 Certifies the items identifed above were manufactured in conformity to

- [X] Approved design data and are in a condition for safe operation
- [ ] Non-approved design data specified in Block 13

19 [ ] 14 CFR 43 9 Return to Service [ ] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
David Damian	ODARF602216NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
David Damian	Aug 06 2009		

User/Installer Responsibilities

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1 Approving National Aviation Authority/Country	2 AUTHORIZED RELEASE CERTIFICATE	3 Form Tracking Number 383874
FAA/UNITED STATES	FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	Sales Order / Line / Work Order: 18945 / 19 / 607539

4 OrganizationName	BEARING INSPECTION, INC.	FAA Repair Station SP3R849L	5 P O ,Contract,or Invoice Number / Customer No
Address	A TIMKEN COMPANY 4422 CORPORATE CENTER DRIVE LOS ALAMITOS CA-90720-2539 USA		AU6850 - 1 / 43415

6 Item	7 Description	8 Part No	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
1	GTCP331 ACCESSORY ROLLER BEARING	3860158-1	N/A	1	UA06S1998-201	OVERHAULED

13 Remarks Return to service

Documents describing the actual work performed are on file at BEARING INSPECTION, INC.

BEARING REFURBISHED/RECONDITIONED IN ACCORDANCE WITH FAA APPROVED PRODUCT SPEC. C747 REV L AND INSPECTED IAW HONEYWELL GTCP331 EM, SEC 49-23-49, REV 30 SEP/30/2009

14. certifies the item identified above were manufactured in conformity to: ☐ Approved design and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13	19 ☒ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13 Certifies that unless otherwise specified in block 13 , the work identified in Block 12 and described in block 13, was accomplished with Title 14, Code of Federal Regulations, part 43 and in respect to the work, the items are approved for return to service
15.Authorized Signature. / 16.Approval Authorization No.	20 Authorized Signature: Mike Lambert / 21 Approval/Certificate No: SP3R849L
17. Name(Typed or Printed): N/A / 18 Date(d/m/y): N/A	22 Name (typed or Printed): MIKE A LAMBERT / 23 Date(m/d/y): OCT/07/2009

User/Installer Responsibilities

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1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA FORM 8130-3,AIRWORTHINESS APPROVAL TAG**	**383060** Sales Order / Line / Work Order **18945 / 6 / 606170**

4 Organization Name Address	FAA Repair Station	5 P O ,Contract,or Invoice Number	Customer No
BEARING INSPECTION, INC. **A TIMKEN COMPANY** 4422 CORPORATE CENTER DRIVE LOS ALAMITOS CA-90720-2539 USA	SP3R849L	**AU6818 - 1**	**43415**

6 Item	7 Description	8 Part No	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
1	GTCP331 ACCESSORY ROLLER BEARING	**3860158-1**	**N/A**	**1**	**UA05S1998-397**	**OVERHAULED**

13 Remarks Return to service

Documents describing the actual work performed are on file at BEARING INSPECTION, INC

BEARING REFURBISHED/RECONDITIONED IN ACCORDANCE WITH FAA APPROVED PRODUCT SPEC C747 REV L AND INSPECTED IAW HONEYWELL GTCP331 EM, SEC 49-23-49, REV 29 JUN/30/2009.

14 certifies the item identified above were manufactured in conformity to	19	
☐ Approved design and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13	[X] 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13 Certifies that unless otherwise specified in block 13 , the work identified in Block 12 and described in block 13, was accomplished with Title 14, Code of Federal Regulations, part 43 and in respect to the work, the items are approved for return to service	
15 Authorized Signature	16 Approval Authorization No:	20 Authorized Signature Mike Lambert
17 Name(Typed or Printed) N/A	18 Date(d/m/y) N/A	22 Name (typed or Printed) **MIKE A LAMBERT**

21 Approval/Certificate No	23 Date(m/d/y)
SP3R849L	**SEP/29/2009**

User/Installer Responsibilities

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Where the user/installer performs works in accordance with the national regulations of an airworthiness authority different than the Airworthiness Authority of the country specified in Block 1 it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the components/assemblies from the airworthiness authority of the country specified in Block 1

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COAS BY SUBASSEMBLY REASON: REMOVAL REQUESTOR NAME: REMOVAL
ORGANIZATION:

WORK CENTER: 551

SERIAL NBR	ET	MT	NAME	PWR RTG	CUST
62332		V	APU331	200E	UA

ORDER NUMBER
V578

COAS FOR MODULE TYPE A * SERIAL NUMBER P209 MODULE NAME: GEARBOX ASSMBLY WORK CENTER: 551

COA NUMBER	COA CAT	MODULE/ FUNC NBR	UNIT SERIAL	UNIT COA STATUS	ISS	COMP	COA TITLE	COMPLETION DATE

*** NO COAS SCHEDULED FOR THIS UNIT ***

UNITED AIRLINES

GTCP331-200ER APU Engine Manual - Inspection and Condition Sheet

LOAD COMPRESSOR MODULE
60-49-25-00-00 ICS

DISTRIBUTION 551

ENGINE S/N 62697 VADE NO _____ CUSTOMER _____

MODULE ORDER NO: FV607 MODULE S/N: P-1902 MODULE F

REASON FOR REMOVAL _____

COMMENTS. _____

DISPOSITION CODES	E =	PART MEETS DETAIL PART EID REQUIREMENTS (ZERO TIME SINCE DETAIL PART INSPECTION)
	A =	EXPOSED AREA OF PART MEETS VISUAL REQUIREMENTS OF APPROPRIATE EID (CONTINUED TIME SINCE DETAIL PARTS INSPECTION)
	C =	PART ROUTED OR CORRECTIVE ACTION TAKEN
	ATA# S/L-SEQ	EID NUMBER [49 precedes numbers shown (49) 31 -XX] SECTION / LIST - SEQUENCE NUMBER
	OFF LOG FUNC#	STAMP TO INDICATE PART OFF-LOG FROM MODULE FUNCTION NUMBER

NOTE Sign off appropriate disposition code. More than one code may be signed

NOTE Indicate condition of unserviceable parts regardless of disposition

NOTE To clear parts not exposed, draw a line through the complete entry and stamp in the left margin

NOTE If part is routed on an R&R Tag, it is mandatory to stamp the applicable "E" or "A" Block and write "R&R" in the "C" Block Then complete the appropriate computer transaction

NOTE Parts having no specific EID will be visually inspected per 60-49-00-00 Book "0", Introduction, Section 4, A4

Module Inspection Guide

I _____ (1) Module inspected and found serviceable per EID 60-49-25-00-00 [ZERO Time Since Module Inspection (TSMI)] No parts removed from module No additional sign-off required

I I342 (2) Module partially or completely disassembled Removed parts and / or exposed areas inspected per appropriate EID (ZERO Time Since Detail Parts Inspection - TSDPI)

Control Date 20070329

ENGINE S/N 62697 ORDER NO FV607

E	A	C	ITEM NOMENCLATURE	ATA # S/L SEQ	OFFLOG FUNC #	ROUTING / CONDITION
			BEARING, THRUST	20-01-01		
				18-195	5760	
		I342	BEARING, ROLLER	20-01-01	I342	
				18-320	5746	EXPOSED
		I342	CARBON SEAL ASSY 2 EA	20-02-00	XXX	
				18-275	14367	1 EA EXPOSED
		I342	ROTOR, CARBON SEAL 2 EA	22-22-00	XXX	
				18-280	5747	1 EA EXPOSED
			RETAINER, BEARING	22-02-00	XXX	
				18-070	2276	
			ASSEMBLY, IGV	25-02-00		
				25-000	0988 I	
			HOUSING, BEARING	25-03-00	XXX	
				18-190	0992	
			COUPLING & SEAL	25-04-00	XXX	
				18-160	2251	
			SOUND ATTENUATOR	25-05-00	XXX	
				18-095	2275	
	I342		INSULATOR SHIELD	25-07-01	XXX	
				18-015	1227	
	I342		BACKSHROUD ASSY	25-08-00	XXX	
				18-010	5680	
	I342		SCROLL HOUSING	25-09-00	XXX	
				18-060	2243	
	I342		BELLCRANK	25-10-00	XXX	
				18-120	2239	
	I342		MOUNT, IGV ACTUATOR	25-11-00	XXX	
				18-130	2274	
			DIFFUSER	25-13-00	XXX	
				18-050	0990	
	I342		HOUSING, INLET	25-15-00	XXX	
				18-100	2272	
			IMPELLER	25-19-00		
				18-150	0989	
	I342		SHAFT	25-20-00	XXX	
				18-200	0991	

GTCP331-200ER APU Engine Manual - Inspection and Condition Sheet
LOAD COMPRESSOR MODULE

ENGINE S/N 62697 ORDER NO FV607

E	A	C	ITEM NOMENCLATURE	ATA # S/L SEQ	OFFLOG FUNC #	ROUTING / CONDITION
		I342	CARRIER, SEAL	25-21-00	XXX	
				18-220	2247	WORN
I342			CARRIER, SEAL	25-22-00	XXX	
				18-210	2248	
~~I342~~			SEAL ROTOR	25-23-00	XXX	
				18-170	5687	
I342			CARRIER, BEARING	25-32-00	XXX	
				18-040	2271	
	I342		COVER, ACTUATOR MOUNT	25-38-00	XXX	
				50-150	5754	
	I342		BRACKET, IGV ACTUATOR	25-39-00	XXX	
				50-160	5755	

I I342 (3)Check Inspection and Condition Sheet for completion

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA FORM 8130-3,AIRWORTHINESS APPROVAL TAG**	**383440** Sales Order / Line / Work Order **18945 / 12 / 606941**

4 Organization Name Address	FAA Repair Station	5 P O ,Contract,or Invoice Number	Customer No
BEARING INSPECTION, INC **A TIMKEN COMPANY** 4422 CORPORATE CENTER DRIVE LOS ALAMITOS CA-90720-2539 USA	SP3R849L	**AU6832 - 1**	**43415**

6 Item	7 Description	8 Part No	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
1	GTCP331 ACCESSORY ROLLER BEARING	**3822099-1**	**N/A**	1	**MS051991410110**	**OVERHAULED**

13 Remarks Return to service

Documents describing the actual work performed are on file at BEARING INSPECTION, INC

BEARING REFURBISHED/RECONDITIONED IN ACCORDANCE WITH FAA APPROVED PRODUCT SPEC. C747 REV L AND INSPECTED IAW HONEYWELL GTCP331 EM, SEC 49-23-49, REV 30 SEP/30/2009

14 certifies the item identified above were manufactured in conformity to:		19 [X] 14 CFR 43 9 Return to Service [ ] Other regulation specified in Block 13 Certifies that unless otherwise specified in block 13 , the work identified in Block 12 and described in block 13, was accomplished with Title 14, Code of Federal Regulations, part 43 and in respect to the work, the items are approved for return to service	
[ ] Approved design and are in a condition for safe operation. [ ] Non-approved design data specified in Block 13			
15 Authorized Signature	16 Approval Authorization No	20 Authorized Signature	21 Approval/Certificate No **SP3R849L**
17 Name(Typed or Printed) N/A	18 Date(d/m/y) N/A	22 Name (typed or Printed) **GREGORY A FAJARDO**	23 Date(m/d/y) **OCT/02/2009**

User/Installer Responsibilities

It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs works in accordance with the national regulations of an airworthiness authority different than the Airworthiness Authority of the country specified in Block 1 it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Block 14 and 19 do not constitute installation certification In all cases,aircraft maintenance records must contain an installation certification issued in accordance with the national regulation by the user/installer before the aircraft may be flown

OMB Control No 2120-0018
09/30/2007

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890000855318Y14 5002986745-969980-2

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PC413NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9373368620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	ROTOR	3822057-3	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Adrian Jacquez	**NOV 11 2009**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

FAA form 8130 - 3 (6-01) * Installer must cross check eligibility with applicable technical data NSN 0052 - 00 - 012 - 9005

Paperwork Reduction Act Statement
An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number associated with this collection of information is 2120-0018
Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at. 800 Independence Ave SW, Washington, DC 20591, Attn Information Collection Clearance Officer, ABA-20

OMB Control No 2120-0018
09/30/2007

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890000855321Y14 5002986745-969980-5

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PC413NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9373368620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	SEAL CPRSR	3611175-1	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Adrian Jacquez	**NOV 11 2009**		

User / Installer Responsibilities

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FAA form 8130 - 3 (6-01) * Installer must cross check eligibility with applicable technical data NSN 0052 - 00 - 012 - 9005

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1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890000855317Y14 5002986745-969980-1

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PC413NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9373368620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	CARRIER SEAL	3826125-1	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

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- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Adrian Jacquez	**NOV 11 2009**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

Paperwork Reduction Act Statement
An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number associated with this collection of information is 2120-0018
Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at 800 Independence Ave SW, Washington, DC 20591, Attn Information Collection Clearance Officer, ABA-20

COAS BY SUBASSEMBLY REASON: REMOVAL REQUESTOR NAME: REMOVAL
ORGANIZATION:

WORK CENTER: 551

SERIAL NBR	ET	MT	NAME	PWR RTG	CUST
62697		V	APU331	200E	UA

ORDER NUMBER
V607

COAS FOR MODULE TYPE F - SERIAL NUMBER P-1802 MODULE NAME: DRIVEN COMP SE WORK CENTER: 551

COA NUMBER	COA CAT	MODULE/ FUNC NBR	UNIT SERIAL	UNIT COA STATUS	ISS	COMP	COA TITLE	COMPLETION DATE
5-9069	4	00958	1963	COMPLETED			757/767 GTCP331 APU IGV BUSHING-UPGRADE	06/23/00

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 NON-ROUTINE ACCOUNTABILITY

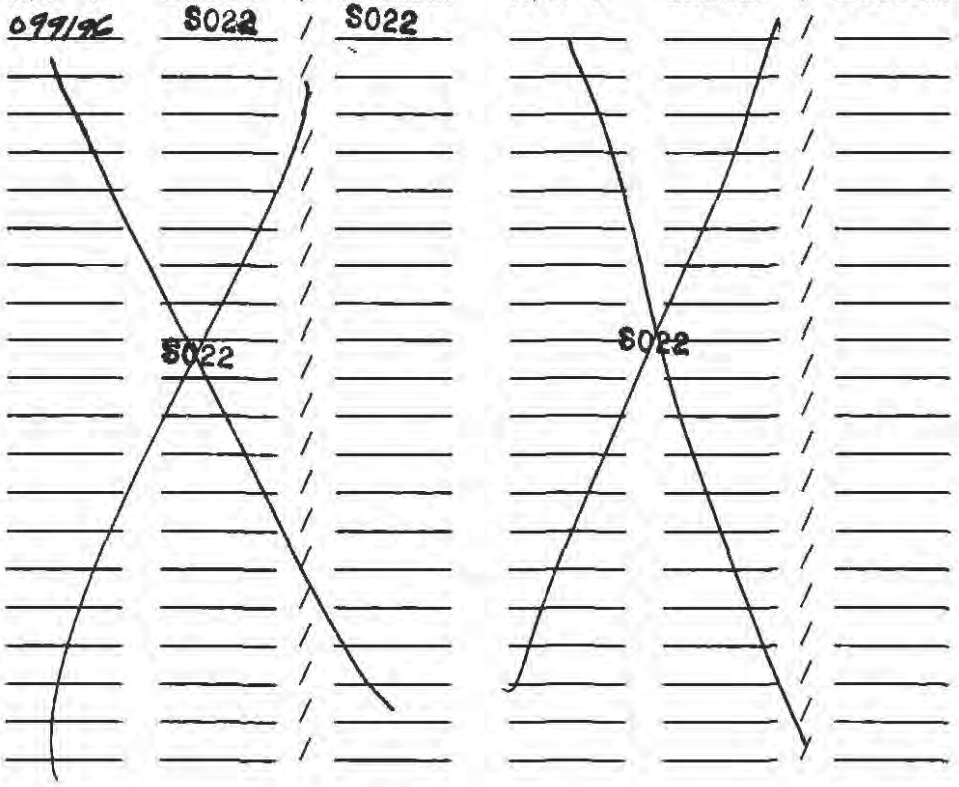
REV. 4/26/07

V607	62697	V0002.0
ORDER NO.	ENGINE NO	JOB NO

1. THE FOLLOWING NON-ROUTINE CARDS ARE SIGNED OFF CORRECTLY AND ACCOUNTED FOR. BLANK SPACES INDICATE NO NON-ROUTINES WERE ISSUED.

NOTE - STAMP ISSUE COLUMN TO INDICATE N/R # ENTERED. RETURN COLUMN INDICATES N/R COMPLETED.

SIGN-OFF			SIGN-OFF		
N/R #	ISSUE	/ RETURN	N/R #	ISSUE	/ RETURN
099/96	$022	/ $022			/



1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 NON-ROUTINE ACCOUNTABILITY

REV. 4/26/07

V607	62697	V0002.0
ORDER NO	ENGINE NO	JOB NO

2. THE FOLLOWING NON-ROUTINE CARDS ARE SIGNED OFF CORRECTLY AND ACCOUNTED FOR. BLANK SPACES INDICATE NO NON-ROUTINES WERE ISSUED.

NOTE - STAMP ISSUE COLUMN TO INDICATE N/R # ENTERED. RETURN COLUMN INDICATES N/R COMPLETED.

SIGN-OFF			SIGN-OFF		
N/R #	ISSUE	/ RETURN	N/R #	ISSUE	/ RETURN
		/			/

3022

END JOB V0002.0 REVISED 4/26/07

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, ENGINE TEST

REV. 4/26/07

V607	62697	V0103.0
ORDER NO.	ENGINE NO.	JOB NO

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT

S022		V0002.0	- NON-ROUTINE ACCOUNTABILITY
		V0200.0	- ON-LOG INSPECTION
S022	S022	V1522.0	APU RELEASE FORM
	S022	V0103.5	DIAGNOSTIC RUN AND SERV. BEFORE TEST
S022	S022	V0104.0	SERVICE BEFORE TEST
S022	S022	V0105.1	ENGINE - TEST / RUN SHEET
	S022	V0105.2	PRESERVATION (ENGINE TEST) PART 1
S022	S022	V0106.0	SERVICE AFTER TEST
	S022	V0106.1	PRESERVATION (SAT) PART 2
S022	S022	V0106.5	SERVICE AFTER TEST LEAD CHECK
S022	S022	V0106.6	SERVICE AFTER TEST LEAD RECHECK
S022	S022	V0106.7	TEST CELL REPAIRS
S022	S022	V0110.0	APU ENGINE SHIPPING
	S022		

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, ENGINE TEST

REV. 4/26/07

V607	62697	V0103.0
ORDER NO	ENGINE NO.	JOB NO

S022

#2 NO COA S022

S022

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

S022

SIGNATURE: _____ DATE: 12/17/09

END JOB V0103.0 REVISED 4/26/07

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 APU RELEASE FORM

REV. 10/26/09

V607	62697	V1522.0
ORDER NO	ENGINE NO	JOB NO

I209A I

1. REVIEW "ENGWRK" DISPLAY IN UNIMATIC TO ENSURE ALL ASSIGNED "ELR'S" ARE CLEARED AND ARE RECORDED IN APU AMIS FILE.

I209A I

2. ACCOMPLISH COMPUTER ENGINE FINAL RECORD CHECK TRANSACTION "ENGFRC".
INITIATE AND COMPLETE INSPECTION PORTION OF SERVICEABLE TAG.

L962 L

3. REPAIR AREA REVIEW DECISIONS HAVE BEEN ACCOMPLISHED. ENGINE IS READY FOR TEST.

8022

4. ALL JOB CARD AND NON-ROUTINE DOCUMENTATION IS CLEARED AND ACCOUNTED FOR.
FORWARD LOG PACKAGE TO ENGINE RECORDS.

L962 L

5. AFTER TEST RUN INFORMATION:
FINAL RUN IS GOOD, YES L962 NO_____ IF 'NO', LIST CAUSE OF REJECT. _____

6. FOREMAN OR DESIGNEE SIGNATURE VERIFIES THAT ENGINE IS SERVICEABLE, THERE ARE NO RESTRICTIONS AND ALL DEVIATIONS ARE CLOSED.

FOREMAN
OR DESIGNEE _____ DATE 12-16-09

551

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 APU RELEASE FORM

REV. 10/26/09

V607	62697	V1522.0
ORDER NO	ENGINE NO	JOB NO

END JOB V1522.0 REVISED 10/26/09

551

Page 2 of 2

L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 SERVICE BEFORE TEST

REV. 7/7/05

V607	62697	V0104.0
ORDER NO	ENGINE NO	JOB NO

NOTE - SET TORQUE WRENCH TO THE TORQUE VALUE SPECIFIED. IF NO TORQUE VALUE IS SPECIFIED, USE STANDARD TORQUE PER GN-8-0-2-14.

CAUTION - SCRAP ANY SELF LOCKING NUT WHICH CAN BE TURNED PAST ITS LOCKING FEATURE BY HAND.

-----PREPARE FOR TEST-----

M 6526 1. INSTALL REAR ENGINE MOUNTS. TORQUE TO 80-100 IN. LBS. AND SAFETY WIRE (.032 WIRE).

M 6526 2. INSTALL FUEL INLET QUICK DISCONNECT FITTING.

M 6526 3. INSTALL FUEL PRESSURE TEST TEE FITTING & ADAPTER TUBE.

M 6526 4. INSTALL REDUCER AND OIL TEMPERATURE BULB IN GEARBOX.

M 6526 5. INSTALL MAIN ELECTRICAL HARNESS ADAPTER.

M 6526 6. INSTALL PS3 TEST TUBE. HANG PCD2 TUBE IN CONVIENT LOCATION TO BE INSTALLED DURING SERVICE AFTER TEST.

M 6526 7. CONNECT STARTER HARNESS LEADS TO STARTER TERMINALS.
HOLD BOTTOM NUT WITH WRENCH, TORQUE POSITIVE TOP NUT 80 LB. IN.
HOLD BOTTOM NUT WITH WRENCH, TORQUE NEGATIVE TOP NUT 50 LB. IN.

M 6526 8. INSTALL TEST CELL EXAHUST PIPE, TORQUE CLAMP.

M 6526 9. REMOVE ALL SURPLUS PARTS FROM STALL SHELVES AND ROUTE TO PROPER DESTINATION.

M 6526 10. CLEAN ALL STALL SHELVES.

L962 L 11. VERIFY AND CLEAR ALL "ELR'S" BY REVIEWING "ENGWRK" DISPLAY IN UNIMATIC APU AMIS FILE.

551

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 SERVICE BEFORE TEST

REV. 7/7/05

V607	62697	V0104.0
ORDER NO	ENGINE NO	JOB NO

L962 L

12. LEAD CHECK - GENERAL SECURITY CHECK - PRIOR TO TEST. WRENCH CHECK.

END JOB V0104.0 REVISED 7/7/05

L962 L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

NOTE: DURING PERFORMANCE RUN I HAD A PROBLEM WITH IGV-TH ma READING. IN THE PASSED TEST RUNS, WHEN BLEED AIR IS REQUESTED IGV-TH WOULD READ 32ma. THEN IF BLEED AIR ~~ANT~~ AND HIS WAS REQUESTED, IGV WOULD READ 64ma. IF THAT WOULD NOT HAPPEN IGV ACTUATOR WAS REPLACED. ON THIS APU, DURING HIS RUN IGV-TH WAS ONLY 32ma. SO I INSTALLED 2 ~~ANT~~ MORE ACTUATOR. THE 3RD ACTUATOR UNDER PRESSURE ONLY WOULD READ 64ma.. SINCE APU IS PASSING ALL RE-

(OVER)

Job Instruction Card

331-200 ENGINE - TEST / RUN SHEET

REV. 10/10/08

V607	62697	V0105.1
ORDER NO	ENGINE NO	JOB NO

DATE OF TEST RUN 12-14-09 TEST CELL # 1

M 6526 1. INDICATE TYPE OF RUN. STAMP A, B, C, D OR E BELOW:

____ A. DIAGNOSTIC RUN

____ B. REPAIR RUN POWER SECTION REFURBISHMENT

6526 C. REPAIR RUN NO POWER SECTION REFURBISHMENT

____ D. IDLE LEAK CHECK

____ E. OIL CONSUMPTION

M 6526 2. INSTALL INLET TEMPERATURE FRAME.

M 6526 3. CHECK AND SERVICE OIL QUANTITY PRIOR TO ENGINE TEST. DUPLICATE SIGNOFF V0101.2

M 6526 4. INSTALL AND/OR CONFIRM ENGINE IS SECURED IN A RUN STAND.

M 6526 5. INSTALL VIBRATION EQUIPMENT.

M 6526 6. SECURE ENGINE IN TEST CELL PER ENGINE MANUAL TESTING SECTION 49-20-00.

M 6526 7. CHECK ENGINE AND CELL FOR CLEANLINESS AND SECURITY BEFORE ATTEMPTING ENGINE START. CHECK INLET AND EXHAUST FOR FOREIGN MATERIAL.

NOTE - TEST CELL OPERATOR HAS THE OPTION OF RUNNING THE APU IN MANUAL OR AUTO MODE.

M 6526 8. ACCOMPLISH ALTITUDE SIMULATION BLANKING PLATE PERFORMANCE TEST.

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

QUIREMENTS AND THERE IS NO LIMIT ON IGV-TH mea READING, I HAVE TO LET THIS APU PASS. ALSO EGINEER GEORGE SKOUFOS WAS CONTACTED, AND HE KNOWS ABOUT THIS SITUATION. Mike Sparil 05672 12-15-2009 6526

Job Instruction Card

331-200 ENGINE - TEST / RUN SHEET

REV. 10/10/08

V607	62697	V0105.1
ORDER NO.	ENGINE NO	JOB NO

M 6526 9. PERFORM TEST OPERATIONS PER ENGINE MANUAL TESTING SECTION 49-20-00.

DID COOLING FAN VIBRATION EXCEED 1.0 IPS?

_____ A. IF YES, REMOVE GENERATOR, INSTALL COVER PLATE AND REPEAT TEST. IF VIBRATION FALLS BELOW .6 IPS, REPLACE THE GENERATOR. IF VIBRATION IS HIGHER THAN .6 IPS, REPLACE THE COOLING FAN AND REPEAT TEST.

6526 B. IF NO, CONTINUE WITH TEST

M 6526 10. ACCOMPLISH A COMPRESSOR STALL CHECK PER ENGINE MANUAL TESTING SECTION 49-20-00, TO DETERMINE PNEUMATIC STABILITY OF THE LOAD COMPRESSOR. RECORD DCF RECORD DCF ACCOMPLISHED.

DCF 81-80

M 6526 11. ACCOMPLISH FLOW SENSOR ADJUSTMENT PER ENGINE MANUAL TESTING SECTION 49-20-00. RECORD THE DCF THAT THE SURGE VALVE CRACKS IN DUCT PRESSURIZATION MODE.

DP CRACK DCF 90-91

M 6526 12. ACCOMPLISH MES CRACK POINT CHECK PER ENGINE MANUAL TESTING SECTION 49-20-00. RECORD DCF THAT THE SURGE CONTROL VALVE CRACKS IN MES MODE.

MES CRACK DCF 98

6962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ENGINE - TEST / RUN SHEET

REV. 10/10/08

V607	62697	V0105.1
ORDER NO	ENGINE NO	JOB NO

L962 LM 6526 13. ----- CONTINUOUS AIRWORTHINESS ITEM -----
CHECK FUEL MANIFOLD HOSE TO ATOMIZER FOR EVIDENCE OF LEAKING.

(6526) OK
( ) NOT OK

NO EVIDENCE OF LEAKING ALLOWED.
LIST ALL REPAIRS ON JIC V0106.7.

M 6526 14. SMOKE CHECK - WITH ENGINE OPERATING AT NO-LOAD, CHECK EXHAUST STACK FOR SMOKE. IF EXCESSIVE BLACK SMOKE OR ANY WHITE SMOKE IS OBSERVED, CONTACT SFOEP PERFORMANCE.

M 6526 15. REMOVE FUEL TEST "T" FITTING AND RECONNECT FUEL LINE AND LEAK CHECK IT.

M 6526 16. NON ROUTINE CELL WORK ADJUSTED AIRFLOW SENSOR, AND SAFETIED. 6526

M 6526 17. CHECK OIL LEVEL AND SERVICE AS REQUIRED.

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

ITEM 18. ACTUATOR'S S/N 159C. Mira Spacil 05672.

ITEM 23. APU IS UAL'S. Mira Spacil 05672 6526

Job Instruction Card

331-200 ENGINE - TEST / RUN SHEET

REV. 10/10/08

V607	62697	V0105.1
ORDER NO	ENGINE NO	JOB NO

M 6526 18. PARTS CHANGED IN TEST CELL.

NOMENCLATURE	S/N OFF	S/N ON	REASON FOR REPLACEMENT
IGV ACTUATOR	MR49513	MR49513-6091	WRONG IGV-TH READING.

1962 LM 6526 19. CHECK MAIN OIL SCREEN FOR FOREIGN MATERIAL.
"NO METAL ALLOWED"
SCREEN CONDITION OKAY. YES 6526 NO ____
IF YES, REPLACE FILTER.
IF NO, CONTACT FOREMAN FOR RE-REVIEW OF APU.

NOTE - TAG AND ROUTE ALL PARTS CHANGED TO HOME SHOP.

M 6526 20. REMOVE VIBRATION EQUIPMENT.

M 6526 21. REMOVE INLET TEMPERATURE FRAME.

M 6526 22. IF ENGINE IS TO BE PRESERVED, REQUEST JIC V0105.2 FROM SCHEDULE CENTER.

APU IS TO BE PRESERVED YES____ NO____

6526
____.M X 23. CUSTOMER ENGINES ONLY: VIDEO BORESCOPE SERVICE AFTER TEST INSPECTION REQUIRED. REQUEST FROM SCHEDULE CENTER JIC V0108.0

1962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

331-200 ENGINE - TEST / RUN SHEET
REV. 10/10/08

V607	62697	V0105.1
ORDER NO	ENGINE NO.	JOB NO

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

6962 L 24. VERIFY JIC V0108.0 IS COMPLETE.

M 6526 25. MAKE TWO COPIES OF TEST SUMMARY SHEET. ATTACH ONE COPY TO TEST J.I.C. AND PROVIDE THE OTHER COPY ALONG WITH TEST LOG PACKAGE TO ENGINEERING.

M 6526 26. FILL OUT PROBLEM SHEET, MAKE ONE COPY OF PROBLEM SHEET. ATTACH TO TEST J.I.C.

L962 LM 6526 27. TESTED OK 6526 NOT OK ____

TCR FOR _____ EVA REQUESTED _____

IF TCR, THE FOLLOWING MUST BE SIGNED OFF AND DATED.
SHOP FORMAN_____DATE_____
ENGINEER_____DATE_____

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ENGINE - TEST / RUN SHEET

REV. 10/10/08

V607	62697	V0105.1
ORDER NO	ENGINE NO	JOB NO

END JOB V0105.1 REVISED 10/10/08

L962 L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 SERVICE AFTER TEST

REV. 9/15/09

V607	62697	V0106.0
ORDER NO	ENGINE NO	JOB NO

NOTE - SET TORQUE WRENCH TO THE TORQUE VALUE SPECIFIED. IF NO TORQUE VALUE IS SPECIFIED, USE STANDARD TORQUE PER GN-8-0-2-14.

CAUTION - SCRAP ANY SELF LOCKING NUT WHICH CAN BE TURNED PAST ITS LOCKING FEATURE BY HAND.

M 6526 1. REMOVE TESTCELL EXHAUST PIPE AND CLAMP.

M 6526 2. REMOVE TESTCELL STARTER HARNESS. TIGHTEN STARTER TERMINAL NUTS FINGER TIGHT.

M 6526 3. REMOVE GENERATOR HARNESS.

M 6526 4. REMOVE MAIN ELECTRICAL HARNESS ADAPTER.

M 6526 5. REMOVE PS3 TEST TUBE AND REINSTALL PCD2 TUBE.

M 6526 6. INSTALL GENERATOR TERMINAL COVER.

M 6526 7. REMOVE OIL TEMPERATURE BULB AND REDUCER FROM GEARBOX. INSTALL PLUG AND O-RING. TORQUE PLUG.

M 6526 8. REMOVE FUEL INLET QUICK DISCONNECT FITTING. INSTALL UNION AND O-RING. TORQUE UNION AND THEN CAP.

M 6526 9. INSTALL COVERS, CAPS, OR PLUGS ON ALL TEST EQUIPMENT.

ITEM 10. APU IS UAL's. Miro Gracl 05672 6526

L962 ~~L~~ LM ~~6526~~ 10. CUSTOMER ONLY: VIDEO BORESCOPE REQUIRED, REQUEST JIC V0108.0 FROM SCHEDULE CENTER. PREPARE ENGINE FOR BORESCOPE ACCESS.

L962 I 11. CUSTOMER ONLY: VIDEO BORESCOPE LOAD COMPRESSOR IMPELLER LEADING EDGE AND TRAILING EDGE BLADES. C1 IMPELLER LEADING EDGE AND TRAILING EDGE BLADES. C1 VOLUTE AND LOAD COMPRESSOR VOLUTE. INSPECT PER EID 49-10-01 CRITERIA LIMITS. REQUEST JIC V0108.0 FROM SCHEDULE CENTER.

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

ITEM 12 NOT REQUIRED, Mike Spacil 05672 6526

Job Instruction Card

331-200 SERVICE AFTER TEST

REV. 9/15/09

V607	62697	V0106.0
ORDER NO	ENGINE NO	JOB NO

M 6526 12. REINSTALL PARTS REMOVED FOR BORESCOPE ACCESS.

M 6526 13. PROVIDE ENGINE MOUNT NUTS AND WASHERS IN CLOTH BAG ATTACHED TO LEFT REAR ENGINE MOUNT.

M 6526 14. RE-TORQUE AFT SCAVENGE PUMP ASSEMBLY NUTS TO 90 LB. IN. INSTALL TAIL CONE, SPACER AND SCREWS AND TORQUE TO 50 LB. IN.

M 6526 15. CHECK GEARBOX VENT LINE AT TURBINE EXHAUST FOR OIL WETNESS. MAXIMUM OIL DRIPPINGS IS 150 DROPS OR 10CC TOTAL.

M 6526 16. CHECK OIL LEVEL AND SERVICE AS REQUIRED.

M 6526 17. DRAIN FUEL FROM FILTER BOWL AND REINSTALL FILTER BOWL.

M 6526 18. VERIFY DRAIN MAST FITTINGS ARE IN UPPER HOLES OF DRAIN MAST PER IPC. (REF. IPC 50/60/65-49-16-00-011).

50-49-16-00-011
60-49-16-00-011
65-49-16-00-011

-------CONTINUOUS AIRWORTHINESS ITEMS ----------

CHECK SAFETY.

L 6962 19. ROTATE ENGINE AND CHECK FOR UNUSUAL NOISES AND FOR FREEDOM OF ROTATION.

CAUTION - ROTATE ENGINE AFTER ENGINE HAS COOLED.

L 6962 20. CHECK SAFETY OF MAIN OIL SCREEN

M 6526 21. INSTALL EXXON 2389 PLACARD (265-2389) ON FORWARD SIDE OF OIL FILLER HOUSING. REMOVE OTHER OIL PLACARDS.

M 6526 22. INSTALL COVERS, CAPS OR PLUGS ON ALL APU OPENINGS.

L 6962 ALL ITEMS ARE PROPERLY SIGNED OFF.

M 6526 23. CLAMP FUEL LINE TO BRACKET BETWEEN FUEL CONTROL & FLOW DIVIDER VALVE.

M 6526 24. PERFORM SECURITY AND SAFETY CHECK OF ENGINE.
CHECK ALL TUBE AND HOSE NUTS FOR SECURITY.
ASSURE THAT FUEL NOZZLES ARE SECURE AND SAFETIED.
CHECK ELECTRICAL CONNECTORS FOR SECURITY. SAFETY AS REQUIRED.

M 6526 25. IF ENGINE IS TO BE PRESERVED, REQUEST JIC V0106.1 FROM SCHEDULE CENTER.

M 6526 26. THIS UNIT HAS BEEN PREPARED FOR SHIPMENT IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF U.S. DOT 49 CFR HAZARDOUS MATERIALS TRANSPORTATION REGULATIONS AND THE ICAO/IATA DANGEROUS GOODS REGULATIONS.

L962 L 27. LEAD - FINAL CHECK OF ENGINE.
CHECK THAT SERVICEABLE TAG IS PRESENT IN PLASTIC ENVELOPE.
CHECK THAT V0108.0 IS COMPLETE.

L962 L 28. ACCOMPLISH "ENGVST" TRANSACTION IN UNIMATIC TO RECORD THE ENGINE VISIT WORK COMPLETION. RECORD IN "ENGWRK" DISPLAY ANY OTHER OPEN ITEMS TO BE ACCOMPLISHED DURING APU INSTALLATION.

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 SERVICE AFTER TEST

REV. 9/15/09

V607	62697	V0106.0
ORDER NO	ENGINE NO	JOB NO.

END JOB V0106.0 REVISED 9/15/09

L962 L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 SERVICE AFTER TEST LEAD CHECK

REV. 6/5/03

V607	62697	V0106.5
ORDER NO.	ENGINE NO	JOB NO

NOTE - RECORD ALL DISCREPANCIES ON SERVICE AFTER TEST LEAD RECHECK JOB CARD V0106.6

L962 L 1. VERIFY ALL REPAIRS TO BE ACCOMPLISHED DURING OR AFTER TEST HAVE BEEN PROPERLY COMPLETED.

L962 L 2. CHECK FOR FREEDOM OF ROTATION AFTER ENGINE HAS COOLED. CHECK FOR UNUSUAL NOISES.

L962 L 3. CHECK INLET AND EXHAUST FOR DEBRIS, F.O.D. OR OBVIOUS DAMAGE.

L962 L 4. CHECK GENERATOR, STARTER AND MAIN ELECTRICAL CONNECTORS FOR BENT, BURNED OR PUSHED BACK PINS OR SOCKETS.

L962 L 5. CHECK THAT ALL CAPS AND PLUGS ARE INSTALLED, TIGHT AND, IF NECESSARY, SAFTIED.

L962 L 6. CHECK THAT PROPER MANUFACTURER ENGINE IDENTIFICATION DATA PLATE IS INSTALLED ON LOWER INLET PLENUM AND INSPECTION PLATE INSTALLED AND SECURE.

L962 L 7. CHECK THAT UA S/N I.D. PLATE IS INSTALLED BELOW GEARBOX. CHECK ALL MOUNTED ACCESSORIES FOR PROPER INSTALLATION.

L962 L 8. CHECK THAT ENGINE MOUNT AND SHIPPING MOUNT BOLTS ARE INSTALLED AND TIGHTENED AFTER APU IS INSTALLED IN SHIPPING STAND.

L962 L 9. CHECK THAT NEW ENGINE MOUNT NUTS AND WASHERS ARE PROVIDED IN CLOTH BAG ATTACHED TO LEFT AFT MOUNT.

L962 L 10. CHECK THAT ALL PROTECTIVE COVERS ARE INSTALLED ON INLET AND EXHAUST.

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 SERVICE AFTER TEST LEAD CHECK

REV. 6/5/03

V607	62697	V0106.5
ORDER NO	ENGINE NO	JOB NO

END JOB V0106.5 REVISED 6/5/03

1

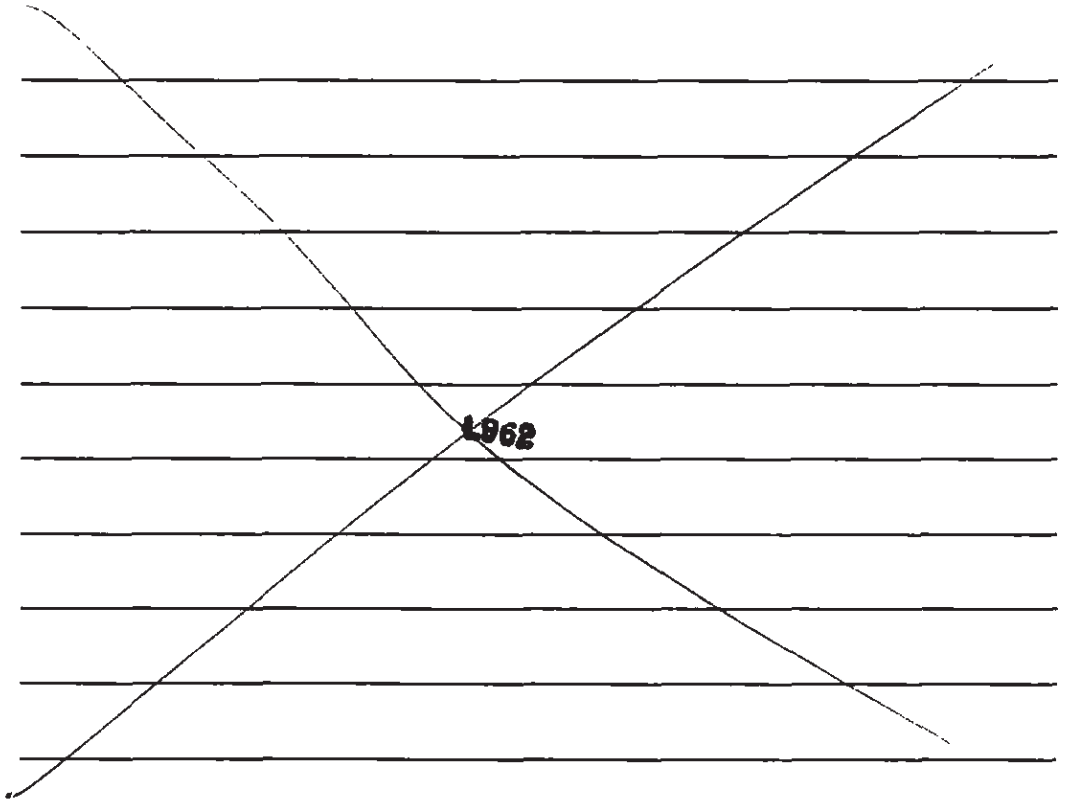
STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 SERVICE AFTER TEST LEAD RECHECK

REV. 9/16/91

V607	62697	V0106.6
ORDER NO	ENGINE NO	JOB NO



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ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 SERVICE AFTER TEST LEAD RECHECK

REV. 9/16/91

V607	62697	V0106.6
ORDER NO	ENGINE NO	JOB NO

END JOB V0106.6 REVISED 9/16/91

1962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 TEST CELL REPAIRS

REV. 4/10/00

V607	62697	V0106.7
ORDER NO.	ENGINE NO	JOB NO

NOTE - USE THIS JIC TO RECORD ANY WORK ACCOMPLISHED IN THE TEST CELL OTHER THAN THE TEST ITSELF.

NOTE - LEAD, SIGN-OFF IN LEFT HAND COLUMN.
MECHANIC, SIGN-OFF IN RIGHT HAND COLUMN.

NOTE - IF NO DISCREPANCIES FOUND, WRITE NONE.

DISCREPANCY OR ACTION

NONE

6526

6526

6962 L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 TEST CELL REPAIRS

REV. 4/10/00

V607	62697	V0106.7
ORDER NO.	ENGINE NO	JOB NO

END JOB V0106.7 REVISED 4/10/00

1962

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551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 APU ENGINE SHIPPING

REV. 11/22/85

V607	62697	V0110.0
ORDER NO	ENGINE NO	JOB NO

M 6528

1. ATTACH LIFTING SLING TO ENGINE AND REMOVE ENGINE FROM RUN OR BUILD STAND.

L962 L

2. CHECK ENGINE MOUNTS FOR SECURITY OF INSTALLATION ON ENGINE.

M 6526

3. POSITION ENGINE IN SHIPPING STAND AND SECURE WITH SAFETY PINS ON ENGINE MOUNTS.

L962 L

4. CHECK ENGINE FOR SECURITY AND PROPER INSTALLATION IN SHIPPING STAND.

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 APU ENGINE SHIPPING

REV. 11/22/85

V607	62697	V0110.0
ORDER NO	ENGINE NO.	JOB NO.

END JOB V0110.0 REVISED 11/22/85

L962L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

COAS BY SUBASSEMBLY REASON: REMOVAL REQUESTOR NAME: REMOVAL
ORGANIZATION:

WORK CENTER: 551

SERIAL NBR	ET	MT	NAME	PWR RTG	CUST
62697		V	APU331	200E	UA

ORDER NUMBER
V607

COAS FOR MODULE TYPE N - SERIAL NUMBER P-1983 MODULE NAME: POWER SECTION WORK CENTER: 551

COA NUMBER	COA CAT	MODULE/ FUNC NBR	UNIT SERIAL	UNIT COA STATUS	ISS	COMP	COA TITLE	COMPLETION DATE

*** NO COAS SCHEDULED FOR THIS UNIT ***

UNITED AIRLINES ENGINE SIT AD VERIFICATION

AOP PAI-46-08-00-13

ENGINE TYPE GTCP331-200 ENGINE S/N 62697 ORDER NO. V607

AD NUMBER	TITLE	INSTRUCTIONS FOR APPLICABILITY	INSTRUCTIONS FOR VERIFICATION	SFOI VER
NO ACTIVE AIRWORTHINESS DIRECTIVES (AD)				N/A

This report applies to this engine visit only. For Engine AD status, see United Airlines AD Compliance Record.

Signature _____ Date 12/14/09

KEY: C/W = complied with this visit
PCW = previously complied with
N/A = not applicable this visit
FCW = factory complied with

CONTR DATE

1/6/9

ORDER NUMBER	ENGINE TYPE	MODULE TYPE	SERIAL NUMBER	CUSTOMER UA		
V607	V		62697	CURRENT PWR RTG 200E	TSN 14084 LOW NONE	
				NOUN APU331	CSN 17883 LOW 01691	
					DAYS REMAINING NONE	

TIMES/CYCLES CURRENT TO THIS MAINTENANCE

FUNC/MOD NAME	SERIAL NUMBER PART NUMBER	LIMIT VALUE	SERIAL ACCUMS	EVENTS	REMAINING VALUE
01009-001	073450490	025000	03452	CSN	21548
T3 WHEEL ASSY	3840022-4				
01007-001	9650104048	020000	14862	CSN	05138
DISK T2 TURBINE	3840007-1				
01004-001	9835702680	020000	18309	CSN	01691
DISK T1 TURBINE	3840019-1				

* * * END OF REPORT * * *

ORDER NUMBER\	ENGINE TYPE\	MODULE TYPE\	SERIAL NUMBER\	NOUN	CUST-OMER	CURRENT POWER RTG	PRIOR ORDER
V607	V		62697	APU331	UA	200E	V383

PRINT:	ACTUALS:	ACCUMS/SUBS:	DIMENSIONS:	COAS:	LIMITS:
P		Y			

OFF FLEET 757 OFF AC NBR N564UA-APU DATE ON 111007 DATE OFF 111809
SERVICEABLE STATUS S DATE-LAST-SERV 121509
COMMENTS

ACCUMULATIONS AND SUB-ASSEMBLIES

ACCUMS: 14084 TSN 17883 CSN

MT	MODULE NAME	SER NBR	ORDNO	OFF DATE	ON DATE	TSHM	TSMI
F	DRIVEN COMP SE	P-1902	V607	090407	102207		02559
N	POWER SECTION	P-1983	V607	090707	102207		02559
A	GEARBOX ASSMBLY	P209	V578	070209	120909		00000

* * * END OF REPORT * * *

ENH647D0 ENGINE MAINTENANCE SYSTEM 02/15/10 07:39:50
ENGMOD ENGINE/MODULE SUMMARY REPORT PAGE: 1

ORDER NUMBER\	ENGINE TYPE\	MODULE TYPE\	SERIAL NUMBER\	NOUN	CUST-OMER	CURRENT POWER RTG	PRIOR ORDER
V607	V		62697	APU331	UA	200E	V383

PRINT:	ACTUALS:	ACCUMS/SUBS:	DIMENSIONS:	COAS:	LIMITS:
P		Y			

OFF FLEET 757 OFF AC NBR N564UA-APU DATE ON 111007 DATE OFF 111809
SERVICEABLE STATUS S DATE-LAST-SERV 121509
COMMENTS

ACCUMULATIONS AND SUB-ASSEMBLIES

ACCUMS: 14084 ISN 17883 CSN

MT	MODULE NAME	SER NBR	ORDNO	OFF DATE	ON DATE	TSHM	TSMI
F	DRIVEN COMP SE	P-1902	V607	090407	102207		02559
N	POWER SECTION	P-1983	V607	090707	102207		02559
A	GEARBOX ASSMBLY	P209	V578	070209	120909		00000

* * * END OF REPORT * * *

ENH692D0 * * ENGINE MAINTENANCE SYSTEM * * 02/15/10 07:39:59
ENGRVW UNITED AIRLINES ENGINE/MODULE REVIEW PAGE: 1

ORDER NUMBER: V607 ET: V MT: SERIAL NUMBER: 62697
NOUN: APU331 CUST: UA POWER RATING: 200E PRIOR-ORDNO: V383
UPDATE NBR: 03 REVISION NBR: 03 DATE: 12/03/09 REVISED BY: 069087
OFF FLEET 757 OFF AC NBR-POS N564UA-APU DATE ON: 11/10/07
DATE MAINTENANCED: 11/18/09 STA: LAX
SERVICEABLE STATUS: S DATE SERV: 12/15/09
COMMENTS: FIX LETTER: N
DATE LSV: 09/28/07 TSLV: 02559 CSLV: 0345Z TSLM: 02559 CSLM: 0345Z
ACCUMS: 14004 TSN 17883 CSN

REASON REMOVED : APU HANGING UP W/25%RPM/CHIP DETTR METAL
REVIEW COMMENTS: TYPE REPAIR: ESV
BORESCOPE: TYPE OF RUN:
REPAIR DECISION:
PBC.FIND SOURCE OF METAL.REREVIEW.(JH11/23)-- METAL ON GEARBOX DETECTOR---
ROUTE GEARBOX, FAN, PUMP, MIS CLEAN.---REPLACE FRONT SEAL AND BEARING
AND ROTOR ON LOAD COMPRESSOR.(SM 12/3)

MT	MODULE NAME	SER NBR	REMAINING HOURS	REMAINING CYCLE	TSHM	TSMI	ROUTE TIME/LIMIT THR	W/C INSTRUCTION
F	DRIVEN COMP SE	P-1902	N/A	N/A	UNK	02559	NONE	
N	POWER SECTION	P-1983	N/A	01691	UNK	02559	X	
A	GEARBOX ASSMBL	P-1490	N/A	N/A	UNK	02559	NONE	

*** END OF REPORT ***

ORDER NUMBER\	ENGINE TYPE\	MODULE TYPE\	SERIAL NUMBER\	NOUN	CUST-OMER	CURRENT POWER RTG	PRIOR ORDER
FV607	V	F	F-1902	DRIVEN COMP SE	UA	200E	V379

PRINT: P ACTUALS: ACCUMS/SUBS: Y DIMENSIONS: COAS: LIMITS:

ON ORDNO V607 ON SERIAL 62697 DATE ON 102207 DATE OFF 090407
SERVICEABLE STATUS S DATE-LAST-SERV 102207
COMMENTS

ACCUMULATIONS AND SUB-ASSEMBLIES

ACCUMS:	13988 TSN	21489 CSN	02559 TSMI
	03452 CSMI	02559 TSMDPI	03452 CSMDPI

MT	MODULE NAME	SER NBR	ORDNO	OFF DATE	ON DATE	TSHM	TSMI

* * * END OF REPORT * * *

ORDER NUMBER\	ENGINE TYPE\	MODULE TYPE\	SERIAL NUMBER\	NOUN	CUST-OMER	CURRENT POWER RTG	PRIOR ORDER
NV607	V	N	P-1983	POWER SECTION	UA	200E	V376

PRINT: P ACTUALS: ACCUMS/SUBS: Y DIMENSIONS: COAS: LIMITS:

ON ORDNO V607 ON SERIAL 62697 DATE ON 102207 DATE OFF 090707
SERVICEABLE STATUS S DATE-LAST-SERV 101607
COMMENTS

ACCUMULATIONS AND SUB-ASSEMBLIES

ACCUMS: 15166 TSN 18476 CSN 02559 TSMI
03452 CSMI 02559 TSMDPI 03452 CSMDPI

MT	MODULE NAME	SER NBR	ORDNO	OFF DATE	ON DATE	TSHM	TSMI

* * * END OF REPORT * * *

ENH647D0 ENGINE MAINTENANCE SYSTEM 02/15/10 07:40:24
ENGMOD ENGINE/MODULE SUMMARY REPORT PAGE: 1

ORDER NUMBER\	ENGINE TYPE\	MODULE TYPE\	SERIAL NUMBER\	NOUN	CUST-OMER	CURRENT POWER RTG	PRIOR ORDER
AV578	V	A	F209	GEARBOX ASSMBL	UA	200E	V643

PRINT:	ACTUALS:	ACCUMS/SUBS:	DIMENSIONS:	COAS:	LIMITS:
P		Y			

ON ORDNO V607 ON SERIAL 62697 DATE ON 120909 DATE OFF 070209
SERVICEABLE STATUS S DATE-LAST-SERV 120809
COMMENTS

ACCUMULATIONS AND SUB-ASSEMBLIES
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ACCUMS:	23377	TSN	10748	CSN	00000 TSMI
	00000	CSM1	00000	TSMDPI	00000 CSMDPI

MT	MODULE NAME	SER NBR	ORDNO	OFF DATE	ON DATE	TSHM	TSMI

* * * END OF REPORT * * *

ORDER NUMBER: V607 ET: V MT: SERIAL NUMBER: 62697
NOUN: APU331 CUST: UA POWER RATING: 200E PRIOR-ORDNO: V383
UPDATE NBR: 03 REVISION NBR: 03 DATE: 12/03/09 REVISED BY: 069087
OFF FLEET 757 OFF AC NBR-POS N564UA-APU DATE ON: 11/10/07
DATE MAINTENANCED: 11/18/09 STA: LAX
SERVICEABLE STATUS: S DATE SERV: 12/15/09
COMMENTS: FIX LETTER: N
DATE LSV: 09/28/07 TSLV: 02559 CSLV: 03452 TSLM: 02559 CSLM: 03452
ACCUMS: 14084 TSN 17883 CSN

REASON REMOVED : APU HANGING UP W/25%RPM/CHIP DETTR METAL
REVIEW COMMENTS: TYPE REPAIR: ESV
BORESCOPE: TYPE OF RUN:
REPAIR DECISION:
PBC.FIND SOURCE OF METAL.REREVIEW.(JH11/23)-- METAL ON GEARBOX DETECTOR---
ROUTE GEARBOX, FAN, PUMP, MIS CLEAN.---REPLACE FRONT SEAL AND BEARING
AND ROTOR ON LOAD COMPRESSOR.(SM 12/3)

			REMAINING				ROUTE TIME/LIMIT	
MT	MODULE NAME	SER NBR	HOURS	CYCLE	TSHM	TSMI	THR	W/C INSTRUCTION
F	DRIVEN COMP SE	P-1902	N/A	N/A	UNK	02559	NONE	
N	POWER SECTION	P-1983	N/A	01691	UNK	02559	X	
A	GEARBOX ASSMBL	P-1490	N/A	N/A	UNK	02559	NONE	

*** END OF REPORT ***

UNITED AIRLINES

APU TEST CELL SUMMARY

Test Cell # 1
Test Completed 12/15/ 9 Engine Model GTCP-331 Engine Serial No 62697
Customer Code UA Order No. V607 Run Type. No Power Section Ref

START DATA

PARAMETER	10% N2 DATA	LIMIT	30% N2 DATA	LIMIT	50% N2 DATA	LIMIT	95% N2 DATA	LIMIT
Date	12/16/ 9		12/16/ 9		12/16/ 9		12/16/ 9	
Time	9.32 25		9 32.32		9 32 46		9·33. 4	
Time	3.2		10 7		24.4		42.8	
NArpm	6262		11937		19888		37821	
NA %	15.7		30.0		49 9		94.9	
Vgg	.07		37		12		.08	
Vagb	.05		.15		.08		.23	
Wf-1	60		62		108		239	
Pfpump	3.4		63.3		113.4		218.2	
Poilpump	.3		7.1		27 6		61.4	
Pfinlt	26.2		26 2		26.0		26.1	
CITAvg	23.6		23.2		22 2		20 6	
ACCEL	1409.1		626.2		652.3		1036 0	
Toil	88 2		490.9		85.5		80 1	
Tt7Avg	176 9	1028 degC	323 7	912 degC	615 3	826 degC	412.8	633 degC
EGTAvg	193.4		490.9		722.5		397 8	

UNITED AIRLINES

APU TEST CELL SUMMARY

Test Cell # 1
Test Completed 12/15/ 9 Engine Model GTCP-331 Engine Serial No 62697
Customer Code UA Order No. V607 Run Type No Power Section Ref

PARAMETER	IDLE DATA	LIMIT	GENERATOR DATA	LIMIT
Date	12/16/ 9		12/15/ 9	
Time	9 38 21		13 44 51	
NArpm	39834		39860	
NA %	100.0		100.0	
PMGAB (Loaded)	100		86	81-102 vac
PMGBC (Loaded)	101		87	81-102 vac
PMGAC (Loaded)	100		86	81-102 vac
KVA1	0		86	
GENAB	208		208	203-212 vac
GENBC	208		208	203-212 vac
GENAC	209		208	203-212 vac
GENFREQ	396		397	395-405 hz
Vgg	.08	0.78 mils	.11	0 78 mils
Vagb	.21	0 78 mils	.30	0 78 mils
DpCond	1.26		1 40	
PtCond	14.64		14 65	
P2Cond	14.58		14.53	
Pfpump	226.2		283 2	
PoilPump	62.9	60-75 psig	62 9	
Pagb	-1.4	-1.8 psig	-1.5	
Ps3	100.7		104 9	
CITAvg	20.6		19.8	
Toil	87.7	152 degC	91.8	
Tt7Avg	355.4	500 0 degC	401.7	
EGTAvg	354.4		398.6	
EGT1	364.5		412.2	
EGT2	344.4		384 9	
Wf-1	242		291	

UNITED AIRLINES

APU TEST CELL SUMMARY

Test Cell # 1
Test Completed. 12/15/ 9 Engine Model GTCP-331 Engine Serial No 62697
Customer Code UA Order No V607 Run Type No Power Section Ref

PARAMETER	COMB LOAD DATA	COMB LOAD LIMIT	PERFORMANCE DATA	PERFORMANCE LIMIT	ALTITUDE DATA	ALTITUDE LIMIT
Date	12/16/ 9		12/16/ 9		12/15/ 9	
Time	10. 7 30		10.14.37		12. 6.15	
NArpm	40394		40406		40402	
NA %	101 4	101 %	101.4	101 %	101.4	101 %
Vgg	.15	0.78 mil	15	0.78 mil	12	0.78 mil
Vagb	.23	0.78 mil	22	0.78 mil	.23	0.78 mil
IGV-lvdt	20		-19		-21	
SV-TM	100		83		100	
DCF	96 8		96 9	95-97 ppm	96 7	95-97 ppm
KVA1	89		0		0	
WBcorr	258 7		291.8	264.2 ppm	293 0	264 2 ppm
Wf-1	408		414		406	
HP70	415 0		532.5		530 3	
NC	.8		8		8	
DpCond	2 23		2.91		3 08	
Pt1cond	48.89		56.51		56 54	
P2Cond	14.54		14 54		14.50	
PBcorr	49.14		56.65	52.81 psia	56.94	52.82 psia
Pcell	14.85		14 85		14 80	
Pfpump	456.3		466.1		452.3	
PoilPump	61 9		62.6	60-75 psig	67.0	60-75 psig
Pagb	-1.9		-1.9		2 0	
Ps3	112 7		113 5		113.0	
CITAvg	20.3		19.3		19.2	
CIT1	20.3		18.9		18.9	
CIT2	20.9		20.1		20.0	
CIT3	20 4		19.6		19 3	
CIT4	19.1		18.7		18 6	
TBcorr	178.6		200.0		198.5	
Tfinlt	15.8		16.1		17.1	
Toil	100.9		89.9		89.3	
Tt7Avg	518.1		519.2		514.1	
Tt7AvgCorr	539 8		495.7	497.0 degC	488.9	496.9 degC
EGT1	539 5		540.5		534.8	
EGT2	504.4		505 5		499.7	
EGTAvg	521.7		522.2		516.6	

UNITED AIRLINES

APU TEST STATUS SUMMARY

Test Completed. 12/15/ 9 | Engine Model GTCP-331 | Engine Serial No 02697
Customer Code. UA | Order No. V607 | Run Type. Repair Run
Total Runtime. 3 14 30 | Fuel Used. 175 gals

AUTORUN TASKS	*COMPLETED*	*PASS/FAIL*
Altitude Simulation Test	YES	Passed
Oil In Bleed Air	YES	Passed
Performance Run	YES	Passed
Combined Load	YES	Passed
Generator Check	YES	Passed
Surge Control	YES	Passed
Leak/Instrumentation/Idle	YES	Passed
Start	YES	Passed
Fuel bleed	YES	Passed

COMPONENT(s) REPAIRED/REPLACED	
Actuator IGV repaired or replaced	YES

TESTED OK 6526 NOT OK _____

BY Mirco Spacil

DATE. 12-15-2009

ENGINE MAINTENANCE RECORDS

LOG CERTIFICATION FORM D-199

REF: PAOP 45-55-30-04

CONTROLLED DOCUMENT - DO NOT DUPLICATE

ALL PORTIONS OF BUILD LOGS ARE COMPLETE AND ACCURATE FOR ENGINE/STAND-ALONE MODULES

ESN 62697

Repair Order Number V607

Power Rating 331-200E

IN ADDITION, THE A D. VERIFICATION CHECKLIST (AS SUPPLIED BY SFOEP) IS ON FILE IN SFOMR/PA AS PART OF THE ENGINE LOG

THE FOLLOWING ITEMS MUST BE CLEARED BEFORE THE ENGINE/STAND-ALONE MODULE IS RELEASED· (IF NONE, SO STATE)

NONE

SFOMR/PA: _____ **Date** 12/14/2009

Shirley Buffert

FOR SFOMR / PA USE ONLY

WHEN ENGINE MAINTENANCE RETURNS THIS D-199 TO SFOMR/PA AS A RESULT OF A TEST CELL INTERRUPT (TCI) OR A TEST CELL REJECT (TCR), FILL OUT THE FOLLOWING INFORMATION.

REASON: **TCI or TCR?** _____

SFOMR/PA· _____ **Date**

(SIGNATURE HERE RENDERS THIS D-199 NULL AND VOID)

SFR4568

REVISED 01/09/2004
(ALL PRIOR DATES OBSOLETE)

ORIGINAL

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	016-A00342115

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
UNITED AIRLINES San Francisco International Airport, San Francisco, California 94128-3800 USA	WC541

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Qty	11 Serial/Batch #	12. Status/Work.
(1)	REGULATOR-OIL TEMP VN P/N 1601	UA P/N MR49512	N/A	1	UA MR DASH 119	REPAIRED

13 Remarks

RECEIVING INSPECTION REQUIRED ITEM 1 REPAIRED IN ACCORDANCE WITH U A.L SPECIFICATIONS MJ-60-49-90-08-JD REV DATE 20080627 MAINTENANCE RECORD ON FILE UNDER MR49512-119 UNITED AIR LINES CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12 AND 13 WAS PERFORMED IN ACCORDANCE WITH EASA IMPLEMENTATION RULE PART 145 APPROVAL, AND WITH RESPECT TO THAT WORK, THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE UNDER EASA APPROVAL NUMBER 145 4980 MATERIAL SUPPLIED TO AIRLIANCE MATERIALS
END

SPEC 2000 ID SPL 81979- UCN L1X26043

[redacted]

19. ☑ 14 CFR 43.9 Return to Service ☑ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14 Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

20 Authorized Signature.	21 Approval/Certificate No
Mark F Gallinger	UALR011A
22. Name & FN (Typed or Printed)	**23 Date (m/d/y)**
GALLINGER,MARK 027569	DEC/01/2009

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulation of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross-check eligibility with applicable technical data [FAA form 8130-3 (8-01)-NSN 0052-00-012-9005] AOP 3-3-1

24. Stock Control Information		
	RCS CONTROLLED ? YES	PCN. 645-0019
	HOME SHOP WRONG - 551	FINAL ROUTING 645
	SHELF LIFE(IN MONTHS) 99	BATCHABLE? NO
	SHIP & STORE IN CONTAINER H2-	

25 **UNITED AIRLINES**

26 **Part Removed Tag**

27 ROUTED BY (PRINT LAST NAME & F/N).	28. STATION.	29. DATE:

	PCN	PART NUMBER	DESCRIPTION	DASH NO ON	MFG S/N	UTSO
30 ON UNIT	645-0019	MR49512	REGULATOR-OIL TEMP VN P /N 1601	119	UA119	
31 OFF UNIT	PCN	PART NUMBER	DESCRIPTION	DASH NO. OFF	MFG. S/N.	

32 REMOVAL & INSTALLATION DATA

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED		COMPLETE AS REQUIRED	
PLANE NO	PLANE TT	NHA PCN	NHA DASH #	NHA** CODE	POSITION
		62697	V607	P	APU

REASON FOR REMOVAL OR REPORTED TROUBLE(INCLUDE LINE CENTER/WU):

☐ TIME (SCHEDULED MAINT.) ☐ TROUBLE (SUSPECTED FAILURE OR TROUBLE SHOOTING) ☐ OTHER (COA, DAMAGE, WEAR OR CONVENIENCE)

INSTALLED. Miro Spacil 12-14-09

** NHA (NEXT HIGHER ASSEMBLY) CODES A OR BLANK = AIRPLANE, G = LANDING GEAR, P = APU, 1, 2, 3 OR 4 = ENGINE

1 Approving National Aviation Authority/Country: FAA/United States	2 **AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number: 016-A00343472

4 Organization Name and Address.
UNITED AIRLINES
San Francisco International Airport, San Francisco, California 94128-3800 USA

5 Work Order/Contract/Invoice Number: W/C 124

6 Item	7 Description	8. Part Number:	9. Eligibility *	10 Qty	11 Serial/Batch #	12. Status/Work.
(1)	STARTER-APU	UA P/N MR49408	N/A	1	UA MR DASH 92	REPAIRED

13 Remarks

ITEM 1 REPAIRED I A W UAL SPECIFICATION AC-60-49-40-01-JD REVISION DATE AUG/25/1999
END

SPEC 2000 ID SPL 81979- UCN L1X50622

☐
☐

19 ☑ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

20. Authorized Signature

21 Approval/Certificate No.: UALA011A

22. Name & FN (Typed or Printed): SOMARRIBA,GUSTAVO 119119

23. Date (m/d/y): DEC/09/2009

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulation of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross-check eligibility with applicable technical data.

[FAA form 8130-3 (6-01)-NSN 0052-00-012-9005] AOP 3-3-1

24. Stock Control Information		
	RCS CONTROLLED ? YES	PCN 651-1150
	HOME SHOP SFOEC - 124	FINAL ROUTING 651
	SHELF LIFE(IN MONTHS) 99	BATCHABLE? NO
	SHIP & STORE IN CONTAINER . O6*	

25. **UNITED AIRLINES**

26 **Part Removed Tag**

27. ROUTED BY (PRINT LAST NAME & F/N):

28. STATION:

29. DATE:

30 ON UNIT	PCN	PART NUMBER	DESCRIPTION	DASH NO ON	MFG S/N.	UTSO
	651-1150	MR49408	STARTER-APU	92	90-2592	

31 OFF UNIT	PCN	PART NUMBER	DESCRIPTION	DASH NO. OFF	MFG. S/N.

32. REMOVAL & INSTALLATION DATA

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED		COMPLETE AS REQUIRED	
PLANE NO.	PLANE TT	NHA PCN	NHA DASH #	NHA** CODE	POSITION
		62679	V607	P	APU

REASON FOR REMOVAL OR REPORTED TROUBLE(INCLUDE LINE CENTER/WU):

☐ TIME (SCHEDULED MAINT.) ☐ TROUBLE (SUSPECTED FAILURE OR TROUBLE SHOOTING) ☐ OTHER (COA, DAMAGE, WEAR OR CONVENIENCE)

INSTALLED. Miro Spacil 5672 12-14-09

REPORTABLE UNIT-MRDATA TRANSACTION REQUIRED

** NHA (NEXT HIGHER ASSEMBLY) CODES A OR BLANK = AIRPLANE, G = LANDING GEAR, P = APU, 1, 2, 3 OR 4 = ENGINE

1. Approving National Aviation Authority/Country	2	3. Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	016-A00343212

4. Organization Name and Address.	5.Work Order/Contract/Invoice Number
UNITED AIRLINES San Francisco International Airport, San Francisco, California 94128-3800 USA	WC153

6. Item	7 Description	8. Part Number	9 Eligibility*	10. Qty	11 Serial/Batch #	12. Status/Work
(1)	SWITCH - OIL PRESSURE P/ N ASP	UA P/N MR49272	N/A	1	UA MR DASH 263	REPAIRED

13. Remarks:

ITEM 1 REPAIRED I A.W UAL SPECIFICATION RC-60-49-94-02-JD REVISION DATE OCT 24/2003
END

SPEC 2000 ID SPL 81979- UCN 325968

[redacted]

19. ☑ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

20. Authorized Signature:	21 Approval/Certificate No.
Guzman 59383	UALA011A
22. Name & FN(Typed or Printed): GUZMAN,BENNY 059383	**23. Date (m/d/y):** DEC/08/2009

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulation of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross-check eligibility with applicable technical data.

[FAA form 8130-3 (6-01)-NSN. 0052-00-012-9005] AOP 3-3-1

24. Stock Control Information		
	RCS CONTROLLED ? YES	PCN 265-3641
	HOME SHOP: SFOEC - 153	FINAL ROUTING 265
	SHELF LIFE(IN MONTHS): 99	BATCHABLE? NO
	SHIP & STORE IN CONTAINER	

25 UNITED AIRLINES

26. Part Removed Tag	27 ROUTED BY (PRINT LAST NAME & F/N):	28. STATION:	29. DATE:

	PCN	PART NUMBER	DESCRIPTION	DASH NO ON	MFG S/N.	UTSO
30. ON UNIT	265-3641	MR49272	SWITCH - OIL PRESSURE P/N ASP	263	E051381	
31 OFF UNIT	PCN	PART NUMBER	DESCRIPTION	DASH NO. OFF	MFG. S/N.	

32. REMOVAL & INSTALLATION DATA	COMPLETE IF PLANE INVOLVED		COMPLETE IP PLANE NOT INVOLVED		COMPLETE AS REQUIRED	
	PLANE NO.	PLANE TT	NHA PCN	NHA DASH #	NHA** CODE	POSITION
			62697	V607	P	APU

REASON FOR REMOVAL OR REPORTED TROUBLE(INCLUDE LINE CENTER/WU):

☐ TIME (SCHEDULED MAINT.) ☐ TROUBLE (SUSPECTED FAILURE OR TROUBLE SHOOTING) ☐ OTHER (COA, DAMAGE, WEAR OR CONVENIENCE)

INSTALLED. Miro Spacil 5672
12-14-09

[redacted] FRONTABLE UNIT MR DATA TRANSACTION REQUIRED

** NHA (NEXT HIGHER ASSEMBLY) CODES A OR BLANK = AIRPLANE, G = LANDING GEAR, P = APU, 1, 2, 3 OR 4 = ENGINE

1 Approving National Aviation Authority/Country	2.	3. Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	016-A00343020

4. Organization Name and Address	5.Work Order/Contract/Invoice Number
UNITED AIRLINES San Francisco International Airport, San Francisco, California 94128-3800 USA	WC541

6. Item	7 Description	8. Part Number	9. Eligibility*	10. Qty.	11 Serial/Batch #	12. Status/Work
(1)	EXCITER-IGNITION 767 APU	UA P/N MR49410	N/A	1	UA MR DASH 173	OVERHAULED

13. Remarks:

OVERHAULED UNIT AND MADE SERVICEABLE PER UAL SPECIFICATIONS IN MJ-60-49-41-01-JD-[1/13/1998] UNITED AIR LINES CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12 AND 13 WAS PERFORMED IN ACCORDANCE WITH EASA IMPLEMENTATION RULE PART 145 APPROVAL, AND WITH RESPECT TO THAT WORK, THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVAL NUMBER 145.4980
END

SPEC 2000 ID SPL 81979- UCN 510680

[redacted]

19. ☑ 14 CFR 43.9 Return to Service ☑ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

20. Authorized Signature.	21 Approval/Certificate No.
	UALR011A
22. Name & FN (Typed or Printed): CUETO,RAY 103173	**23. Date (m/d/y):** DEC/07/2009

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly
Where the user/installer performs work in accordance with the national regulation of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

* Installer must cross-check eligibility with applicable technical data.

[FAA form 8130-3 (6-01)-NSN 0052-00-012-9005] AOP 3-3-1

HAZMAT HAZMAT HAZMAT HAZMAT

24. Stock Control Information		
	RCS CONTROLLED ? YES	PCN 671-0050
	HOME SHOP: WRONG - 551	FINAL ROUTING 671
	SHELF LIFE(IN MONTHS): 99	BATCHABLE? NO
	SHIP & STORE IN CONTAINER .	

25. **UNITED AIRLINES**

26. Part Removed Tag	27 ROUTED BY (PRINT LAST NAME & F/N):	28. STATION:	29 DATE.

	PCN	PART NUMBER	DESCRIPTION	DASH NO ON	MFG S/N.	UTSO
30 ON UNIT	671-0050	MR49410	EXCITER-IGNITION 767 APU	173	96069020	
31 OFF UNIT	PCN	PART NUMBER	DESCRIPTION	DASH NO OFF	MFG. S/N.	

32. REMOVAL & INSTALLATION DATA

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED		COMPLETE AS REQUIRED	
PLANE NO.	PLANE TT	NHA PCN	NHA DASH #	NHA** CODE	POSITION
		62697	V607	P	APU

REASON FOR REMOVAL OR REPORTED TROUBLE(INCLUDE LINE CENTER/WU):

☐ TIME (SCHEDULED MAINT.) ☐ TROUBLE (SUSPECTED FAILURE OR TROUBLE SHOOTING) ☐ OTHER (COA, DAMAGE, WEAR OR CONVENIENCE)

INSTALLED. Mus Spare 5672
12-14-09

REPORTABLE UNIT-MRDATA TRANSACTION REQUIRED

** NHA (NEXT HIGHER ASSEMBLY) CODES A OR BLANK = AIRPLANE, G = LANDING GEAR, P = APU, 1, 2, 3 OR 4 = ENGINE

HAZMAT HAZMAT HAZMAT HAZMAT

1 Approving National Aviation Authority/Country	2	3. Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	016-A00329359

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
UNITED AIRLINES San Francisco International Airport, San Francisco, California 94128-3800 USA	WC153

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Qty	11 Serial/Batch #	12 Status/Work
(1)	SWITCH-APU OIL LEVEL	UA P/N MR49937	N/A	1	UA MR DASH 284	INSPECTED

13 Remarks

ITEM 1 REPAIRED I.A.W UAL SPECIFICATION RC-60-49-93-02-JD REVISION DATE MAY 13/99 NEW UNIT FROM VENDOR PO#48102840050 AND TRACKING #890000727414Y14
END

SPEC 2000 ID SPL 81979- UCN L1X36056

[redacted]

19 ☑ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13 the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14 Code of Federal Regulations part 43 and in respect to that work, the items are approved for return to service

20 Authorized Signature	21 Approval/Certificate No
B Guzman 59383	UALA011A
22 Name & FN (Typed or Printed) GUZMAN,BENNY 059383	**23 Date (m/d/y)** SEP/03/2009

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulation of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

* Installer must cross-check eligibility with applicable technical data

(FAA form 8130-3 (6-01)-NSN 0052-00-012-9005) AOP 3-3-1

24 Stock Control Information		
	RCS CONTROLLED ? YES	PCN 481-0284
	HOME SHOP SFOEC - 153	FINAL ROUTING 481
	SHELF LIFE(IN MONTHS) 99	BATCHABLE? NO
	SHIP & STORE IN CONTAINER JW*	

25. **UNITED AIRLINES**

26 Part Removed Tag	27. ROUTED BY (PRINT LAST NAME & F/N).	28. STATION.	29. DATE.

	PCN	PART NUMBER	DESCRIPTION	DASH NO ON	MFG S/N	UTSO
30 ON UNIT	481-0284	MR49937	SWITCH-APU OIL LEVEL	284	UAL1X36056	
31 OFF UNIT	PCN	PART NUMBER	DESCRIPTION	DASH NO. OFF	MFG. S/N.	

32 REMOVAL & INSTALLATION DATA

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED		COMPLETE AS REQUIRED	
PLANE NO.	PLANE TT	NHA PCN	NHA DASH #	NHA** CODE	POSITION
		62697	V607	P	APU

REASON FOR REMOVAL OR REPORTED TROUBLE(INCLUDE LINE CENTER/WU)

☐ TIME (SCHEDULED MAINT.) ☐ TROUBLE (SUSPECTED FAILURE OR TROUBLE SHOOTING) ☐ OTHER (COA, DAMAGE, WEAR OR CONVENIENCE)

INSTALLED. Miro Spacic 05672
12-14-09

REPORTABLE UNIT-MRDA TRANSACTION REQUIRED

** NHA (NEXT HIGHER ASSEMBLY) CODES A OR BLANK = AIRPLANE, G = LANDING GEAR, P = APU, 1, 2, 3 OR 4 = ENGINE

V607

SFOMR1 SFOBB SFOMR SFOLMEMC SFOEFA SFOIZ SFOFD6
SFOIQ
.HDOCOUA 151629/JAC

SPARE APU CHECK ACCOMPLISHMENT RECORDED - APU SERVICEABLE
SOURCE OF CURRENT SERVICEABLE STATUS IS THE AMIS ENGVST DISPLAY
*******HAZMAT*****HAZMAT PCN: 265-9101 HAZMAT*******HAZMAT******HAZMAT*******
ENG SN: 62697 331- 200E ETT: 14084:30 ETC: 17883 RCS NBR: NO -
A CK CHECK HAS BEEN ACCOMPLISHED AT SFO ON 15DEC2009 AT 0830
BY: 018617 JACK HUNTINGTON
LOC ON FIELD:
REMARKS: APU RECIEVED C CHECK AT ENGINE SHOP VISIT.

.
:12151629 101608 0409

UNITED

PSEN441A-1 UNITED AIRLINES ENGINE MAINTENANCE SYSTEM PAGE 1
11/18/09 COMPOSITION LIST FOR UNIT TIME. 08.01

REASON: REMOVAL REQUESTOR: PSEN440A PHONE: ORG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V607 MODULE TYPE MODULE NAME WORK CENTER 551

WORK CENTER. 551 TSLV. 02559 CSLV. 03452 TSLM. 02559 CSLM: 03452

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V607	N664UA	APU	LAX	APU HANGING UP W/25KRPM/CHIP DETTR METAL	11/18/09

UNIT ACCUMULATIONS

		LIMITS THIS EMO	LIMITS WTY
14084 TSN	17883 CSN		

UNIT'S COMPOSITION

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	LIMITS WTY
DRIVEN COMP SE	F	P-1902	13988 TSN 02559 TSMDPI	21489 CSN 03452 CSMDPI	02559 TSMI	03452 CSMI		
POWER SECTION	N	P-1983	15166 TSN 02559 TSMDPI	18476 CSN 03452 CSMDPI	02559 TSMI	03452 CSMI		
GEARBOX ASSEMBLY	A	P-1490	26230 TSN 02559 TSMDPI	32130 CSN 03452 CSMDPI	02559 TSMI	03452 CSMI		

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	LIMITS WTY	UNATH PRI
05650 001	P-12650	UNK TSN	UNK CSN	02559 TSDPI			
FAN -SHROUDED R	3615959-6-6001	03452 CSDPI					

REASON: REMOVAL — REQUESTOR: PSEN440A — PHONE: — ORG:
SERIAL NUMBER 62697 — ENGINE TYPE V — ENGINE NAME APU331 — CUST CODE UA
ORDER NUMBER V607 — MODULE TYPE — MODULE NAME — WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER CODE	CUST
62697	V		APU331		UA UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V607	N564UA	APU	LAX	APU HANGING UP W/25%RPM/CHIP DETTR METAL	11/18/09

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	LIMITS WTY
DRIVEN COMP SE	F	P-1902	13988 TSN	21489 CSN	02559 TSMI	03452 CSMI		
			02559 TSMDPI	03452 CSMDPI				

FUNC NAME	POS	SERIAL NBR / PART NUMBER	FUNCTION ACCUMULATIONS				LIMITS THIS EMO	LIMITS WTY	UNATH PRT
00988 001		1968	UNK TSN	UNK CSN	02559 TSDPI				
IGV ASSY VARIBL		3810231-21	03452 CSDPI	UNK TSS-9088					
00989 001		1-501-1749	17924 TSN	15629 CSN	02559 TSDPI				
IMPELLER-DRCOMP		3822080-3	03452 CSDPI						
05780 001		021998-670	UNK TSN	UNK CSN	02559 TSDPI				
BRNG-D/C THRUST		3813827-1	03452 CSDPI						
05746 001		049100-146	UNK TSN	UNK CSN	02559 TSDPI				
BRNG-D/C ROLLER		3822099-1	03452 CSDPI						

REASON: REMOVAL REQUESTOR: PSEN440A PHONE: ORG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V607 MODULE TYPE MODULE NAME WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V607	N564UA	APU	LAX	APU HANGING UP W/25%RPM/CHIP DETTR METAL	11/18/09

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	LIMITS WTY
POWER SECTION	N	P-1983	15166 ISN	18476 CSN	02559 TSMI	03452 CSMI		
			02559 TSMDPI	03452 CSMDPI				

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS				LIMITS THIS EMO	LIMITS WTY	UNATH PRT
05719 001	041998-172	UNK TSN	UNK CSN	02559 TSDPI				
BRNG,P/S-THRUST	3613827-1	03452 CSDPI						
05720 001	96-3378	UNK TSN	UNK CSN	02559 TSDPI				
BRNG,P/S-ROLLR	3822099-1	03452 CSDPI						
00994 001	2-501-3106	33008 TSN	28160 CSN	02559 TSDPI				
C1 COMP IMPELLR	3822067-2	03452 CSDPI						
00995 001	8-3076	22468 TSN	30286 CSN	02559 TSDPI				
C2 COMP IMPELLR	3822068-1	03452 CSDPI						
01002 001	10407	UNK TSN	UNK CSN	02559 TSDPI				
COMB CHMBANNULR	3830051-5	03452 CSDPI						
01005 001	TC14-245	02559 TSN	03452 CSN	02559 TSDPI			YES	
T1 STATOR VANE	E3844038-4	03452 CSDPI						
01009 001	0734504903	02559 TSN	03452 CSN	02559 TSDPI			YES	
T2 WHEEL ASSY	3840022-4	03452 CSDPI						
01007 001	9650104048	12408 TSN	14862 CSN	05900 TSDPI	X			
DISK T2 TURBINE	3840007-1	07510 CSDPI						
01004 001	9835702680	11142 TSN	18309 CSN	02559 TSDPI				
DISK T1 TURBINE	3840019-1	03452 CSDPI						
01014 001	UA00459957	UNK TSN	UNK CSN	02559 TSDPI				
NOZZLE SET PRIM	331NOZPRI1	03452 CSDPI						

REASON: REMOVAL REQUESTOR: PSEN440A PHONE: ORG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V607 MODULE TYPE MODULE NAME WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER CODE	CUST	
62697		V	APU331		UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V607	N564UA	APU	LAX	APU HANGING UP W/25%RPM/CHIP DETTR METAL	11/18/09

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS	LIMITS THIS EMO	WTY	UNATH PRT
01015 001	UA00459958	UNK TSN UNK CSN 02559 TSOPI			
NOZZLE SET SECD	331N02SEC1	09462 CSOPI			

REASON: REMOVAL REQUESTOR: PSEN440A PHONE: ORG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V607 MODULE TYPE MODULE NAME WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697		V	APU331	2000	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V607	N564UA	APU	LAX	APU HANGING UP W/25%RPM/CHIP DETTR METAL	11/18/09

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	LIMITS WTY
GEARBOX ASSMBLY	A	P-1490	26230 TSN	32130 CSN	02559 TSMI	03452 CSMI		
			02559 TSMOPI	03452 CSMOPI				

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	LIMITS WTY	UNATH PRT
00987 001	DP-001458	24518 TSN	31974 CSN	02559 TSOPI			
GEARBOX HOUSING	3862599-3	03452 CSOPI					

* * * END OF REPORT FOR ENG - V MT - SN - 62697 * * *

UNITED

PSEN443A 11/18/09

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
LIMIT PLANNING REPORTS FOR UNIT

REASON: AT REMOVAL — REQUESTOR: REMOVAL — PHONE: — ORG:
SERIAL NUMBER 62697 — ENGINE TYPE V — ENGINE NAME APU331 — CUST CODE UA
ORDER NUMBER V607 — MODULE TYPE — MODULE NAME — WORK CENTER 551

WORK CENTER 551 TSN: 14084 CSN. 17883 TSLM. 02559 CSLM. 03452 TSLV: 02559 CSLV: 03452

SERIAL NBR	ET	MT	NAME	POWER	CUST	LIMIT TYPE	LIMIT VALUE	UNIT ACCUMULATION	REMAINING VALUE	LIMIT IN NLA UNIT	HARD LIMIT NLA LOWEST REMAINING
62697	V		APU331	200E	UA					X	C 01691

ORDER NUMBER	REASON REMOVED OR MAINTENANCED	DATE MAINT
V607	APU HANGING UP W/25%RPM/CHIP DETTR METAL	11/18/09

MODULE LIMIT SUMMARY - HARD AND THRESHOLD

NAME	MT	SERIAL NBR	COMMENTS	LIMIT TYPE	LIMIT VALUE	MODULE ACCUMULATION	REMAINING VALUE	LIMIT IN NLA UNIT	HARD LIMIT NLA LOWEST REMAINING
DRIVEN COMP SE	F	P-1902		X	007000	02559 TSMDPI	04441		
				X	007000	03452 CSMDPI	03548		
POWER SECTION	N	P-1883		X	005000	02559 TSMDPI	02441	X	
				X	005000	03452 CSMDPI	01548		C 01691
GEARBOX ASSMBLY	A	P-1490		X	008000	02559 TSMDPI	05441		

REASON: AT REMOVAL — REQUESTOR: REMOVAL — PHONE: — ORG:
SERIAL NUMBER 62697 — ENGINE TYPE V — ENGINE NAME APU331 — CUST CODE UA
ORDER NUMBER V607 — MODULE TYPE — MODULE NAME — WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST
62697	V		APU331	200E	UA

ORDER NUMBER	REASON REMOVED OR MAINTENANCED	DATE MAINT
V607	APU HANGING UP W/25%RPM/CHIP DETR METAL	11/18/09

FUNCTION LIMITS BY NHA - HARD AND THRESHOLD

NHA NAME DRIVEN COMP SE — MT P — SERIAL NBR P-1902

FUNC NAME	POS	SERIAL NBR / PART NUMBER	COMMENTS	LIMIT TYPE	LIMIT VALUE	FUNCTION ACCUMULATION	REMAINING VALUE
00989	001	1-501-1749	(1-03501-1749) #V379	X	010000	02559 TSDPI	07441
IMPELLER-DRCOMP		9822080-3					

NHA NAME POWER SECTION — MT N — SERIAL NBR P-1902

FUNC NAME	POS	SERIAL NBR / PART NUMBER	COMMENTS	LIMIT TYPE	LIMIT VALUE	FUNCTION ACCUMULATION	REMAINING VALUE
01009	001	0734504903	NV376	H	025000	03452 CSN	21548
T2 WHEEL ASSY		3840022-4		B	012000	03452 CSN	08548
01007	001	9550104048	OLD S/N 9503504048	H	020000	14862 CSN	05138
DISK T2 TURBINE		3840007-1		X	005000	05900 TSDPI	******
				X	005000	07510 CSDPI	******
01004	001	9835702680		H	020000	18309 CSN	01691
DISK T1 TURBINE		3840019-1		X	005000	02559 TSDPI	02441
				X	005000	03452 CSDPI	01548
01014	001	UA00459957	NV376	A	006000	02559 TSDPI	03441
NOZZLE SET PRIM		331NOZPRI1		B	003000	02559 TSDPI	00441

REASON: AT REMOVAL — REQUESTOR: REMOVAL — PHONE: — ORG:
SERIAL NUMBER 62697 — ENGINE TYPE V — ENGINE NAME APU331 — CUST CODE UA
ORDER NUMBER V607 — MODULE TYPE — MODULE NAME — WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST
62697	V		APU331	200E	UA

ORDER NUMBER	REASON REMOVED OR MAINTENANCED	DATE MAINT
V607	APU HANGING UP W/25%RPM/CHIP DETTR METAL	11/18/09

FUNCTION LIMITS BY NHA - HARD AND THRESHOLD

NHA NAME — MT — SERIAL NBR

POWER SECTION — M — P-1983

FUNC NAME	POS	SERIAL NBR / PART NUMBER	COMMENTS	LIMIT TYPE	LIMIT VALUE	FUNCTION ACCUMULATION	REMAINING VALUE
C1016	001	UA00459868	NV378	A	008000	02559 TSDPI	03441
NOZZLE SET SECD		934N025EC1		B	003000	02559 TSDPI	00441

UNITED

PSEN443A
11/18/09

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
THRESHOLD LIMIT REPORTS FOR UNIT

REASON: AT REMOVAL
SERIAL NUMBER 62697
ORDER NUMBER V607

ENGINE TYPE V
MODULE TYPE

REQUESTOR: REMOVAL
ENGINE NAME APU331
MODULE NAME

PHONE:
ORG:
CUST CODE UA
WORK CENTER 551

WORK CENTER. 551 TSN: 14084 CSN. 17883 TSLM. 02559 CSLM: 03452 TSLV. 02559 CSLV: 03452

SERIAL NBR	ET	MT	NAME	POWER	CUST	LIMIT TYPE	UNIT ACCUMULATION	N/A LIMITS THIS EMO
62697	V		APU331	200E	UA			X

ORDER NUMBER	REASON REMOVED OR MAINTENANCED	DATE MAINT
V607	APU HANGING UP W/25%RPM/CHIP DETTR METAL	11/18/09

MODULE THRESHOLD LIMIT SUMMARY

NAME	MT	SERIAL NBR	COMMENTS	LIMIT TYPE	MODULE ACCUMULATION	N/A LIMITS THIS EMO
POWER SECTION	N	P-1983				X

REASON: AT REMOVAL
SERIAL NUMBER 62697 ENGINE TYPE V REQUESTOR: REMOVAL PHONE: ORG:
ORDER NUMBER V607 MODULE TYPE ENGINE NAME APU331 CUST CODE UA
MODULE NAME WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST
62697	V		APU331	2005	UA

ORDER NUMBER V607

REASON REMOVED OR MAINTENANCED: APU HANGING UP W/26KRPM/CHIP DETTR METAL

DATE MAINT: 11/18/09

FUNCTION THRESHOLD LIMITS BY NHA

NHA NAME MT SERIAL NBR
POWER SECTION N P-1983

FUNC NAME	POS	SERIAL NBR / PART NUMBER	COMMENTS	LIMIT TYPE	LIMIT VALUE	FUNCTION ACCUMULATION
Q1007	001	9650104048	OLD S/N 9803504048	X	005000	05900 TSOPI
DISK T2 TURBINE		9840007-1		X	005000	07510 CSOPI

UNITED

PSEN443A 11/18/09

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
DISC SHEET AND HARD LIMIT REPORT

REASON: AT REMOVAL
SERIAL NUMBER 62697 ENGINE TYPE V REQUESTOR: REMOVAL PHONE: ORG:
ORDER NUMBER V607 MODULE TYPE ENGINE NAME. APU331 CUST CODE UA
MODULE NAME WORK CENTER 551

WORK CENTER. 551 TSN. 14084 CSN. 17883 TSLM: 02559 CSLM. 03452 TSLV. 02559 CSLV. 03452

SERIAL NBR	ET	MT	NAME	POWER	CUST	LIMIT VALUE	HARD LIMIT UNIT	ACCUMULATION	REMAINING VALUE	NLA LOWEST REMAINING VALUE
62697	V		APU331	200E	UA					C 01691

ORDER NUMBER	REASON REMOVED OR MAINTENANCED	DATE MAINT
V607	APU HANGING UP W/25%RPM/CHIP DETTR METAL	11/18/09

MODULE HARD LIMIT SUMMARY

NAME	MT	SERIAL NBR	COMMENTS	LIMIT VALUE	HARD LIMIT MODULE ACCUMULATION	REMAINING VALUE	NLA LOWEST REMAINING VALUE
POWER SECTION	N	P-1983					C 01691

REASON: AT REMOVAL — REQUESTOR: REMOVAL — PHONE: — ORG:
SERIAL NUMBER 62697 — ENGINE TYPE V — ENGINE NAME APU331 — CUST CODE UA
ORDER NUMBER V607 — MODULE TYPE — MODULE NAME — WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST
62697	V		APU331	2005	UA

ORDER NUMBER	REASON REMOVED OR MAINTENANCED	DATE MAINT
V607	APU HANGING UP W/26%RPM/CHIP DETTR METAL	11/18/09

FUNCTION HARD LIMITS BY NHA

NHA NAME — MT — SERIAL NBR

POWER SECTION — N — P-1983

FUNC POS NAME	SERIAL NBR PART NUMBER	HARD LIMIT VALUE	FUNCTION ACCUMULATION		REMNG VALUE	REPLACE YES	REPLACE NO	ASSIGNED SERIAL NO	REM HRS	LIFE CYLS	DISC DISP
01009 001 T3 WHEEL ASSY	0734604909 3840022-4	025000	03462	CSN	21548						
01007 001 DISK T2 TURBINE	9650104048 3840007-1	020000	14862	CSN	05138						
01004 001 DISK T1 TURBINE	9835702680 3840019-1	020000	18309	CSN	01691						

REASON: AT REMOVAL
SERIAL NUMBER 62697 ENGINE TYPE V REQUESTOR: REMOVAL PHONE: ORG:
ORDER NUMBER V607 MODULE TYPE MODULE NAME CUST CODE UA
EFFECTIVE MODEL V-UA-ESV WORK CENTER 551

ALL LIFE LIMITED PARTS MEET BUILD LIMITS

TIME REMAINING DOES NOT MEET TEARDOWN GOALS

FUNC NBR	NOUN	SERIAL NUMBER	PART NUMBER	HOURS GOAL /REMAIN	CYCLES GOAL /REMAIN
01004	DISK T1 TURBINE	9835702680	3840019-1	NONE /	3500/01691

*** END OF REPORT FOR ENG - V MT - SN - 62697

*** END OF REPORT ***

UNITED

PSEN441A-1 UNITED AIRLINES ENGINE MAINTENANCE SYSTEM PAGE 1
02/15/10 COMPOSITION LIST FOR UNIT TIME. 08.01

REASON: INSTALLATION REQUESTOR: WOCOMP PHONE: ORG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V607 MODULE TYPE MODULE NAME WORK CENTER 551

WORK CENTER. 551 TSLV. 02559 CSLV: 03452 TSLM. 02559 CSLM: 03452

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697	V		APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V607	N664UA	APU	LAX	APU HANGING UP W/25%RPM/CHIP DETTN METAL	11/18/09

UNIT ACCUMULATIONS

14084 TSN 17883 CSN

			LIMITS THIS EMO	WTY
02559 TSMI	03452 CSMI			
02559 TSMDPI	03452 CSMDPI			

UNIT'S COMPOSITION

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	WTY
DRIVEN COMP SE	F	P-1902	13988 TSN	21489 CSN	02559 TSMI	03452 CSMI		
			02559 TSMDPI	03452 CSMDPI				
POWER SECTION	N	P-1983	15166 TSN	18476 CSN	02559 TSMI	03452 CSMI		
			02559 TSMDPI	03452 CSMDPI				
GEARBOX ASSMBLY	A	P209	23377 TSN	30748 CSN	00000 TSMI	00000 CSMI		
			00000 TSMDPI	00000 CSMDPI				

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS				LIMITS THIS EMO	WTY	UNATH PRI
05660 001	P-1122	UNK TSN	UNK CSN	00000 TSDPI				
FAN -SHROUDED R	3616859-6	00000 CSDPI						

REASON: INSTALLATION — REQUESTOR: MOCOMP — PHONE: — ORG:
SERIAL NUMBER 62697 — ENGINE TYPE V — ENGINE NAME APU331 — CUST CODE UA
ORDER NUMBER V607 — MODULE TYPE — MODULE NAME — WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697	V		APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V607	N564UA	APU	LAX	APU HANGING UP W/25%RPM/CHIP DETTR METAL	11/18/09

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS			LIMITS THIS EMO	LIMITS WTY
DRIVEN COMP SE	F	P-1902	13988 TSN	21489 CSN	02559 TSMI	03452 CSMI	
			02559 TSNDPI	03452 CSNDPI			

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	LIMITS WTY	UNATH PRT
00988 001	1983	UNK TSN	UNK CSN	02559 TSDPI			
IGV ASSY VARIBL	3810221-21	03452 CSDPI	UNK TSS-SDBD				
00989 001	1-501-1749	17924 TSN	15629 CSN	02559 TSDPI			
IMPELLER-DRCOMP	3822080-3	03452 CSDPI					
05760 001	021998-670	UNK TSN	UNK CSN	02559 TSDPI			
BRNG-D/C THRUST	3813827-1	03452 CSDPI					
05746 001	0591410110	UNK TSN	UNK CSN	00000 TSDPI			
BRNG-D/C ROLLER	3822099-1	00000 CSDPI					

REASON: INSTALLATION
SERIAL NUMBER 62697
ORDER NUMBER V607

ENGINE TYPE V
MODULE TYPE

REQUESTOR: MOCOMP
ENGINE NAME APU331
MODULE NAME

PHONE:
CUST CODE UA
WORK CENTER 551

ORG:

SERIAL NBR	ET	MI	NAME	POWER	CUST	
62697		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V607	N564UA	APU	LAX	APU HANGING UP W/25%RPM/CHIP DEITR METAL	11/18/09

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS			LIMITS THIS EMO	LIMITS WTY
POWER SECTION	N	P-1983	15166 TSN	18476 CSN	02559 TSMI 03452 CSMI		
			02559 TSNDPI	03452 CSNDPI			

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	LIMITS WTY	UNATH PRT
05719 001 BRNG,P/S-THRUST	041998-172 3613827-1	UNK TSN 03452 CSDPI	UNK CSN	02559 TSDPI			
05720 001 BRNG,P/S-ROLLR	96-3378 3822099-1	UNK TSN 03452 CSDPI	UNK CSN	02559 TSDPI			
00993 001 C1 COMP IMPELLR	2-501-3108 3822067-2	33008 TSN 03452 CSDPI	25160 CSN	02559 TSDPI			
00995 001 C2 COMP IMPELLR	8-3076 3822068-1	22468 TSN 03452 CSDPI	30286 CSN	02559 TSDPI			
01002 001 COMB CHMBANNULR	10407 3830051-5	UNK TSN 03452 CSDPI	UNK CSN	02559 TSDPI			
01005 001 T1 STATOR VANE	TC14-245 E3844038-4	02559 TSN 03452 CSDPI	03452 CSN	02559 TSDPI		YES	
01009 001 T3 WHEEL ASSY	0734504903 3840022-4	02559 TSN 03452 CSDPI	03452 CSN	02559 TSDPI		YES	
01007 001 DISK T2 TURBINE	9650104048 3840007-1	12408 TSN 07510 CSDPI	14862 CSN	05900 TSDPI	X		
01004 001 DISK T1 TURBINE	9838702680 3840019-1	11142 TSN 03452 CSDPI	18309 CSN	02559 TSDPI			
01014 001 NOZZLE SET PRIM	UA00459957 331NOZPRI1	UNK TSN 03452 CSDPI	UNK CSN	02559 TSDPI			

REASON: INSTALLATION — REQUESTOR: MOCOMP — PHONE: — ORG:
SERIAL NUMBER 62697 — ENGINE TYPE V — ENGINE NAME APU331 — CUST CODE UA
ORDER NUMBER V607 — MODULE TYPE — MODULE NAME — WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697	V		APU331	2CDE	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V607	N564UA	APU	LAX	APU HANGING UP W/25%RPM/CHIP DETTR METAL	11/18/09

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS	LIMITS THIS EMO	WTY	UNATH PRT
01015 001	UA00459958	UNK TSN UNK CSN 02559 TSDPI			
NOZZLE SET SECD	331NOZSEC1	09452 CSOPI			

REASON: INSTALLATION REQUESTOR: MOCOMP PHONE: ORG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V607 MODULE TYPE MODULE NAME WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697	V		APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V607	N564UA	APU	LAX	APU HANGING UP W/25%RPM/CHIP DETTR METAL	11/18/09

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	LIMITS WTY
GEARBOX ASSMBLY	A	P209	23377 TSN	30748 CSN	00000 TSMI	00000 CSMI		
			00000 TSMDPI	00000 CSMDPI				

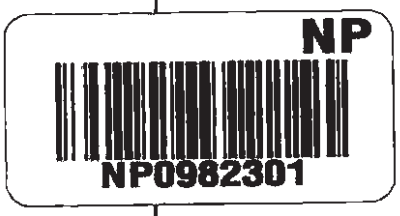
FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS				LIMITS THIS EMO	LIMITS WTY	UNATH PRT
00987 001	9P-16254	UNK TSN	UNK CSN	00000 TSDPI				
GEARBOX HOUSING	3862699-3	00000 CSDPI						

* * * END OF REPORT FOR ENG - V MT - SN - 62697 * * *

Index Form

E4/23/15
2:43 06 PM

Doc. Type:	TAG
Tracking Number:	NP0982301
Activity Date:	12/14/09
Doc Number:	EON: V607
Ref Doc:	
Aircraft Number:	
MFG P/N:	
M&E :	
S/N:	2697
OP Step:	
Station:	
ATA Code:	
Fleet:	
Vendor Code:	
Package Type:	ESV
Package Date:	12/14/09
Comments:	APU-200
PREPPED BY :	RITA PAZ — YOUR NAME HERE
PREPPED DATE:	4/3/2015 — TODAY'S DATE



UAL ENGINE / APU ROM Index
Vendor Imaging Systems Control Sheet Version

Section	Item		Description
1	01	☐	Certification form for Scan
2	01	☑	Serviceable Engine & Module Tag
	02	☑	Engine I & R Tags
	03	☑	Module I & R Tags
	04	☑	Non Routine's
	05	☐	Engine Customer Maintenance Tags
	06	☐	Module Customer Maintenance Tags
3	01	☐	Engine Job Instruction Cards
4	01	☐	Module Job Instruction Cards

A	B	C	D	E	F	G
H	I	J	K	L	M	N
P	Q	R	S	T	U	V
W	X	Y				

5	01	☐	COA'S
6	01	☐	Engine Inspection & Condition Sheet, Miscellaneous Documents
	02	☐	Fulfillment Center ICS
7	01	☐	Module Inspection & Condition Sheet

A	B	C	D	E	F	G
H	I	J	K	L	M	N
P	Q	R	S	T	U	V
W	X	Y				

8	01	☐	AD Verification - Checklist
	02	☐	Unit Hard Limit Report
9	01	☐	Final Accountability and Test Cell JIC's
10	01	☐	D-199 (Records Certification)
	02	☐	8130 or ENGVST meter (Engine Certification)
11	01	☐	Customer Documents
12	01	☐	Removal Composition Report
	02	☐	Limit Planning Report
	03	☐	Installation Composition Report

AV578 6962

UNITED
I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-9104	3862180-21-4004	GBX AY.	DASH NO ON	MFG SER NO 9209 / UTSO

MAINT SHOPS	PS															
		E74	552	LEAD 552								E74				
I193A	X	T193A	7066	6962								HOME SHOP	SHIP CONT	BATCHABLE	R	
												DATE SERVICEABLE 12-08-09		QUANTITY 1		

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		V607/62697	P	APU	12 14 09	SFOPB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME
2 ☐ TROUBLE
3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED.

SIGNATURE (OR STAMP) & FILE NO. 5672

7066 Mio Graal

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY I209A
ON √607

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE_____ DATE_____ SIGNATURE AND FILE NO _____

SHIP IN CONTAINER
RCS CONTROLLED PART

UNITED
I & R TAG

PCN	PART NO	NAME	DASH NO OFF	SER NO IF NO DASH
643	0560	HR47532 VALVE	DASH NO ON -161	MFG SER NO 1554

UTSO: 3

MAINT SHOPS	PS										HOME SHOP	SHIP CONT	BATCHABLE
	U	872	N35	878							878	RI	N M
	X			VENDOR REPAIRED							DATE SERVICEABLE 04Dec2009		QUANTITY 1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA. 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE *	POSITION	DATE	STA
		V607/62697	P	APU	12 14 09	SFOPB

REMOVAL CODE SEE BACK OF YELLOW STUB
1 ☐ TIME
2 ☐ TROUBLE
3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE
B-767 FRM/PIM---INSTALLED.

SIGNATURE (OR STAMP) & FILE NO.
Nino Spacil 5672

REPORTABLE UNIT-MRDATA TRANSACTION REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIRED BY OSV VENDOR WORK REC AND 8130-3 ON FILE P/O # 5988780975

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL? 5 ☐ YES 6 ☐ NO

IF YES WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE - OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAPS/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

RLS CONTROLLED PART

PCN	PART NO	NAME	DASH NO OFF	SER NO IF NO DASH
247	0157	MRAD11E MODULE	DASH NO ON 197	MFG SER NO 5X999 1A / UTSO 6

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE
	☐	P76	N25	976								E76	007	N C
	X				VENDOR REPAIRED							DATE SERVICEABLE 05 Dec 20		QUANTITY 1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE	POSITION	DATE	STA
		V607/62697	P	APU	12/14/09	SFOPB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

B-767 FPM/FIN ----- INSTALLED.

SIGNATURE (OR STAMP) & FILE NO

Miro Spasic 5672

REPORTABLE UNIT-MRDATA TRANSACTION REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

REPAIRED BY OSV VENDOR WORK REC AND 8130-3 ON FILE P/O #

S 9887609440

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL? 5 ☐ YES 6 ☐ NO

IF YES WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP GREEN TINTED LINE - OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAPS/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

RCS CONTROLLED PART

UNITED
I & R TAG

PCN	PART NO.	NAME	DASHED NO OFF	SER NO IF NO DASH
563	4050 9F15098-505	HARNESS	DASH NO ON —	MFG SER NO — / UTSO —

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	
	7	151										151	000	N	B
	X	8										DATE SERVICEABLE 12-8-09		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		V607/62697	P	APU	12/14/09	SFO PB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

B-767 FRM·FIM----INSTALLED.

SIGNATURE (OR STAMP) & FILE NO.

Miro Spaak 5672

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TA

SERVICEABLE UNIT REMARKS N THIS AREA

Per Dwg 9F15098-505

EPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

ROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

RCS CONTROLLED PART

UNITED
I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
643 1179	3876166-1	VALVE	DASH NO ON: -	MFG SER NO: 3060

UTSO:

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
		876	N35	876								876	000	N	E
	X	VENDOR INSPECTED										DATE SERVICEABLE: 04N25-09		QUANTITY: 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		V607/62697	P	APU	12 14 09	SFO B

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

B-767 FRM/FIM----INSTALLED.

SIGNATURE (OR STAMP) & FILE NO.

Mira Spacil 05672

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
JNIT REMARKS
N THIS AREA

INSPECTED BY OSV VENDOR WORK REC AND 8130-3 ON FILE P/O # 5988760830 2

EPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

ROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

RCS CONTROLLED PART

HARD TIME UNIT-SERVICEABLE

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
643 0129	3289504-2-600U	VALV	DASH NO ON —	MFG SER NO PL 101

MAINT SHOPS	RS											MFG SER NO	UTSO		
	0	878	N35	878								878 HOME SHOP	000 SHIP CONT	N BATCHABLE	M R
	X		VENDOR REPAIRED									DATE SERVICEABLE 05 NOV 09		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		V607/62097	P	APU	12/14/09	SFOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

B-767 FRM/FIM-----/INSTALLED.

SIGNATURE (OR STAMP) & FILE NO

Miro Spacil 05672

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

REPAIRED BY OSV VENDOR WORK REC AND 8130-3 ON FILE P/O # 5988 760 9761

EPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

ROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

* RCS CONTROLLED PART *

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
643 - 0130	3616848-2	VALVE	DASH NO ON	MFG SER NO 0716 / UTSO

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
	PS	263										263	000	N	
	X	Vendor Inspected										DATE SERVICEABLE 29 OCT. 09		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		V607/62697	P	APU	12/14/09	SFOPB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED.

RETURN UNSERVICEABLE UNIT TO ORDJJV

SIGNATURE (OR STAMP) & FILE NO.

Mike Sproul 5672

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TA

REPAIRED BY OSV / VENDOR WORK REC & 8130-3 ON FILE PO# S 9826308351

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIR SHOP DATA - *(REQUIRED FOR MR UNITS)*

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE *BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG*

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE_____ DATE_____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265 9106	3616959-6	FAN	DASH NO ON	MFG SER NO P-1122

UTSO: 0

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
I342	X	I342										551			

DATE SERVICEABLE: 12/11/09 QUANTITY: 1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		V607/62697	9	APU	12/14/09	SFOPB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED.

SIGNATURE (OR STAMP) & FILE NO

Miro Spaul 5672

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

I342

CN V607

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO.	NAME	DASHED NO OFF	SER NO IF NO DASH
2850429	3600053-1	PLUG	DASH NO ON	MFG SER NO — UTSO 6

MAINT SHOPS	PS	HOME SHOP	SHIP CONT	BATCHABLE
I342	XI342 E14	551		

DATE SERVICEABLE	QUANTITY
11/4/09	12

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		AV 578/2332-D		APU	12 4 09	SFOB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

7066 100435

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

FTN - 67141I209A

UNITED
I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
	3862699-3	HSNG-Assy Grbx	DASH NO ON	MFG SER NO 9P-16254 / UTSO 0

MAINT SHOPS	PS												HOME SHOP	SHIP CONT	BATCHABLE	R
		E24											E24			
I209A	X	I209A											DATE SERVICEABLE 12-2-9		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		AV 578/62332-P		APU	12 4 09	SFOPS

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME
2 ☐ TROUBLE
3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

7066 100435

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY I209A
ON Av578

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO.	NAME	DASHED NO OFF	SER NO IF NO DASH
265 04462	3822099-1	BEARING	DASH NO ON	MFG SER NO: 05914101 10

UTSO: Ø

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
I342	X	E74 I342										551			

DATE SERVICEABLE	QUANTITY
12/8/09	1EA

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISGO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		V607	P	APU	12/9/09	SFOAS

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

Installed only

SIGNATURE (OR STAMP) & FILE NO.

7066 100435

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

I342
FV607

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE_____ DATE_____ SIGNATURE AND FILE NO _____

-MOVE, SHIP & STORE IN CONTAINER ◄ DANGEROUS GOODS
PCS CONTROLLED PART

PCN	PART NO	NAME	DASH NO OFF	SER NO IF NO DASH
645	0052 MR49513	ACTUATOR	DASH NO ON -41	MFG SER NO 0050 / UTSO G

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE
		552	LEAD									552	GR-	N H
6334X		6334 0962										DATE SERVICEABLE 12 15 09		QUANTITY 1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE	POSITION	DATE	STA
		V607/62697	P	ARU	12/16/09	SFOPB

REMOVAL CODE SEE BACK OF YELLOW STUB
1 ☐ TIME
2 ☐ TROUBLE
3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE
B-767 FRM/FIM------INSTALLED.

SIGNATURE (OR STAMP) & FILE NO
Mino Grace 567

REPORTABLE UNIT-MRDATA TRANSACTION REQUIRED

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL? 5 ☐ YES 6 ☐ NO

IF YES WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP GREEN TINTED LINE OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAPS/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

STALL NO.	ENGINE NO.	ORDER NO.	ORIGINATOR	PRIORITY
1	62647	V607	Mankville	1

DATE	NOSE COWL	COLD SECT	HOT SECT	EXH ASSY
12-2-04	☐	☐	☐	☒

MUFFLER

INSR LEAD	MECH
1366	
L962	L962

Muffler cracked

CORRECTIVE ACTION Welded crack per Repair 49-24-16 / AR12

099412

PROCESSED BY -007190

SPECIAL COST NO

STALL NO.	ENGINE NO	ORDER NO.	ORIGINATOR	PRIORITY
1	62697	0607	Meadville	1

DATE	NOSE COWL	COLD SECT	HOT SECT	EXH ASSY	
12-2-09	☐	☒	☐	☐	Cooling Fan Blade Broke

INSP LEAD	MECH	
I366		1 BLADE ON FAN BROKEN
Q962	6626	CORRECTIVE ACTION INSTALLED NEW COOLING FAN.

PROCESSED BY Stech-007190

SPECIAL COST NO

099411

STALL NO	ENGINE NO	ORDER NO	ORIGINATOR	PRIORITY
1	62697	V607	G.MOK	1

DATE	NOSE COWL	COLD SECT	HOT SECT	EXH ASSY
12/3/2009	☐	☐	☒	☐

INSP

1 OPEN INSPECTION OF LOAD COMPRESSOR DUE TO REPLACEMENT OF FWD (FRONT) SEAL, ROTOR AND BEARING.

I342

CORRECTIVE ACTION

INSPECTED IAW EID 60-49-25-00 I342

099195

PERFORMED BY -007190

SPECIAL COST NO.

STALL NO.	ENGINE NO.	ORDER NO.	ORIGINATOR	PRIORITY
1	62697	V607	G.MOK	1

DATE	NOSE COWL	COLD SECT	HOT SECT	EXH ASSY
12/3/2009	☐	☐	☒	☐

INSP LEAD	MECH	
371TL		1. REPLACE LOAD COMPRESSOR FRONT SEAL, ROTOR AND BEARING.
6668	7066	CORRECTIVE ACTION: Replaced load compressor front seal, rotor and bearing.

PROCESSED BY: [redacted] -007190

SPECIAL COST NO.

099196

START OF PACKAGE CARD

UNITED

RECORDS OF MAINTENANCE

CERTIFICATION FORM

SFOMR/PA Certifies that the *Records of Maintenance* for:

Engine S/N 62697 Order NBR V526

Visit Type ESV is complete and ready for storage and/or microfilming.

Signed _____
(SFOMR - Maintenance Records Specialist)

Date 04/14/04

9/4.17
BOX #

FV518

UNITED
I&R TAG

| | | |

SERVICEABLE
ANTENNAS
IN THIS AREA

ON LOGGED BY
ON V528

EPAIR SHOP DATA – REQUIRED FOR MR UNITS

OUBLE WHILE IN USE CONDITION AGREE WITH REPORTED TROUBLE? 1 YES 2 NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP GREEN TINTED LINE OTHER SIDE OF TAG

DISPOSITION 1 OVERHAULED 2 SERVICEABLE 3 VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE

LV507 I209A L977

UNITED
I & R TAG

P/N	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-3153	3612844-1	Clutch AY - LRU		

DASH NO ON	MFG SER NO	UT&O
		ϕ

WORK SHOP	E74	551	719A	552						551			
										MOVE SHOP	SHP CONT	BATCHABLE	R
I209A X	I209A	719A		L977						DATE SERVICEABLE		QUANTITY	
										2-18-04		1	

THE REPAIRS PERFORMED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN PERFORMED BY THE U.S. CERTIFICATED REPAIR STATION LISTED. THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED. PERTINENT INFO IS ON FILE AT UAL AIRCRAFT ENGINE & COMPONENT MAINTENANCE & REPAIR STATION UAL/ORIA SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

COMPLETE IF PLANE NUMBERED		COMPLETE IF PLANE NOT INVOLVED		COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
		AIRPORT OR CAUTION		TYPE CODE	ROUTING	DATE	STA
		L54E/E2697		P	APU	4,9 E4	SFOPB

REMARKS (USE REVERSE SIDE IF NECESSARY) INTERCHANGEABLE LRU REPORTED TROUBLE FREE

INSTALLED

SIGNATURE (OR STAMP) & FILE NO

Allen Grant C5672

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
WITHDRAWN

REPAIR SHOP DATA - REQ. REC FOR MR UNITS)

TROUBLE REMOVED DOES DISCREPANCY AGREE WITH REPORTED TROUBLE? 1 YES 2 NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

NV 518[illegible]

UNITED
I & R TAG

FSN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-9102	3801063-8	Power Section	DASH NO ON P1375	MFG SER NO / CYCLES Ø

NSN / MOD	FS	E074	851									551 HOUSING	SHP CONT	RAT'CHABLE	R
[illegible]	X	I209A	L962									DATE SERVICEABLE 4-8-04		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS. WHEN SIGNED IN THE CERTIFICATE BLOCK THIS UNIT IS CERTIFIED & AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED. PERTINENT INFO IS ON FILE AT UAL SAN FRANCISCO INTERNATIONAL AIRPORT CA94128

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
		WORK ORDER NO (WO) V528 / 62697	WHEN DISC'D P	POSITION APU	DATE 4 20 04	STA SFO

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO
6956

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

ON LOGGED BY 1209A
ON V528

EPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

ROUBLE SINGLE OUT SOURCE/CAUSE AGREE WITH REPORTED TROUBLE? 1 YES 2 NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO. _____

AVSIB L977

UNITED
I & R TAG

| | | |

SEE INSTRUCTIONS ON REVERSE SIDE

DELIVERED BY

TO V52B

REPAIR SHOP DATA - REQUIRED FOR SRU UNITS

TROUBLE SHOOTING DISPOSITION AGREE WITH REPORTED TROUBLE? 1 YES 2 NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG.

DISPOSITION: 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO. _____

SV518 1977

UNITED I&R TAG

PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-0142	3880160-3 Pump- Scav	CALM NO ON	MFG SER NO: 551	UTSC: 0

| MAINT CHGE | FR | E74 | 551 | | |

SERVICEABLE
PART REMARKS
IN THIS BIN

REPAIR SHOP DATA - REQUIRED FOR MF UNITS

FOUND PART TO BE IN CONDITION AGREE WITH REPORTED TROUBLE? 1 YES 2 NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE OTHER SIDE OF TAG

DISPOSITION: 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO. _____

STALL NO.	ENGINE NO.	ORDER NO.	ORIGINATOR	PRIORITY
	61913	NV518	Huntington	1

DATE	NOSE COWL	COLD SECT	HOT SECT	EXH ASSY
3/17/04	☐	☐	☒	☐

018617

Muffler

UAL NON-ROUTINE SFR 4129 5/78

LEAD I209A WELD

I209A

I209A

1. Aft ID crkd as mrkd.

Ref: 49-24-16-00 AR02

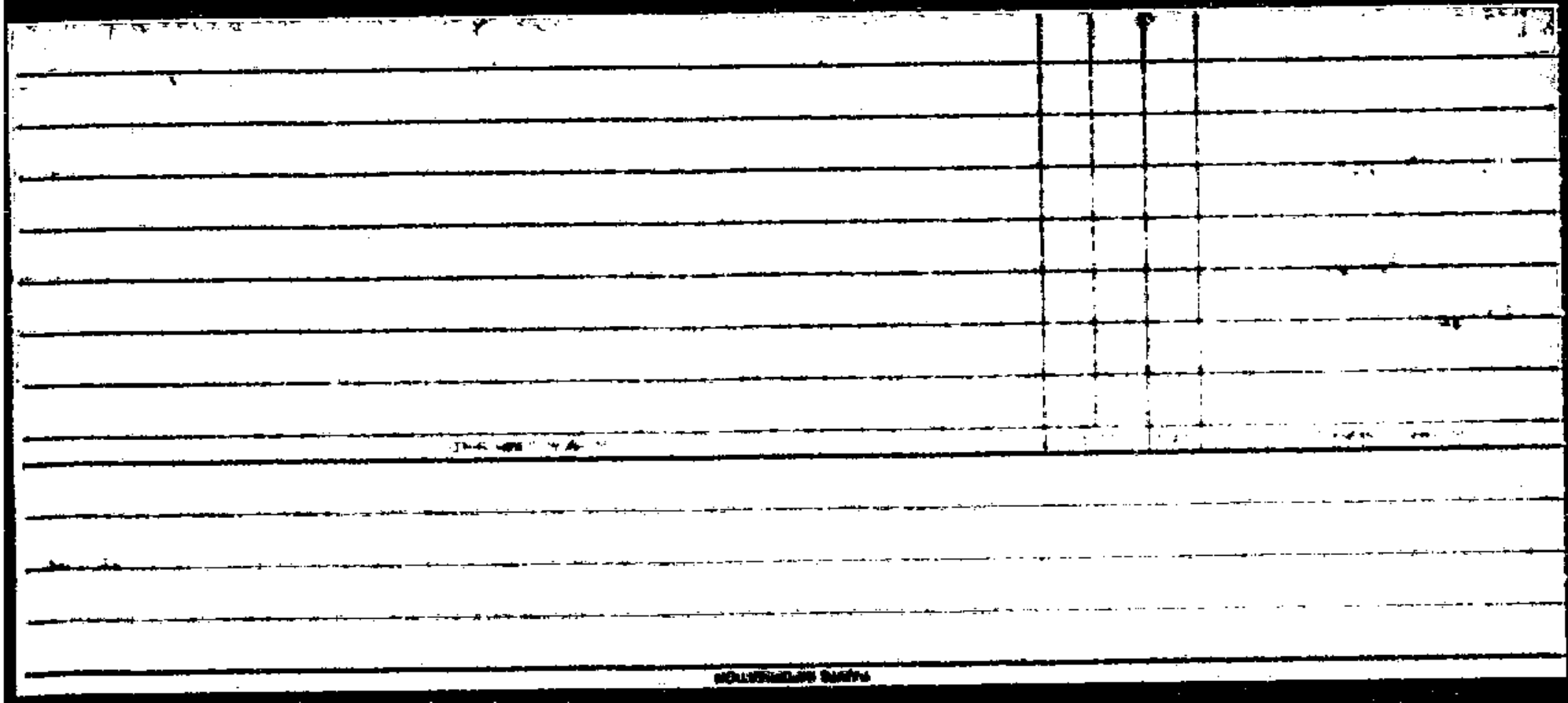
Weld Per 49-24-16 AR02

CORRECTIVE ACTION: Routed for Asset Management to Chromalloy I209A

PROCESSED BY: [illegible] 94444

SPECIAL COST NO.

5649



UAL NON-ROUTINE SFR 4129 5 / 76

STALL NO.	ENGINE NO.	ORDER NO.	DISPOSITION	PRIORITY
	61913	NV518	Stock - 00778	1

DATE	NOSE COWL	COLD SECT	HOT SECT	ESN ASSY
4-8-04	☐	☐	☒	☐

LEAD	MECH
4	

1. PLENUM DRAIN VLV MISSING.

PER 49-20-02-SP

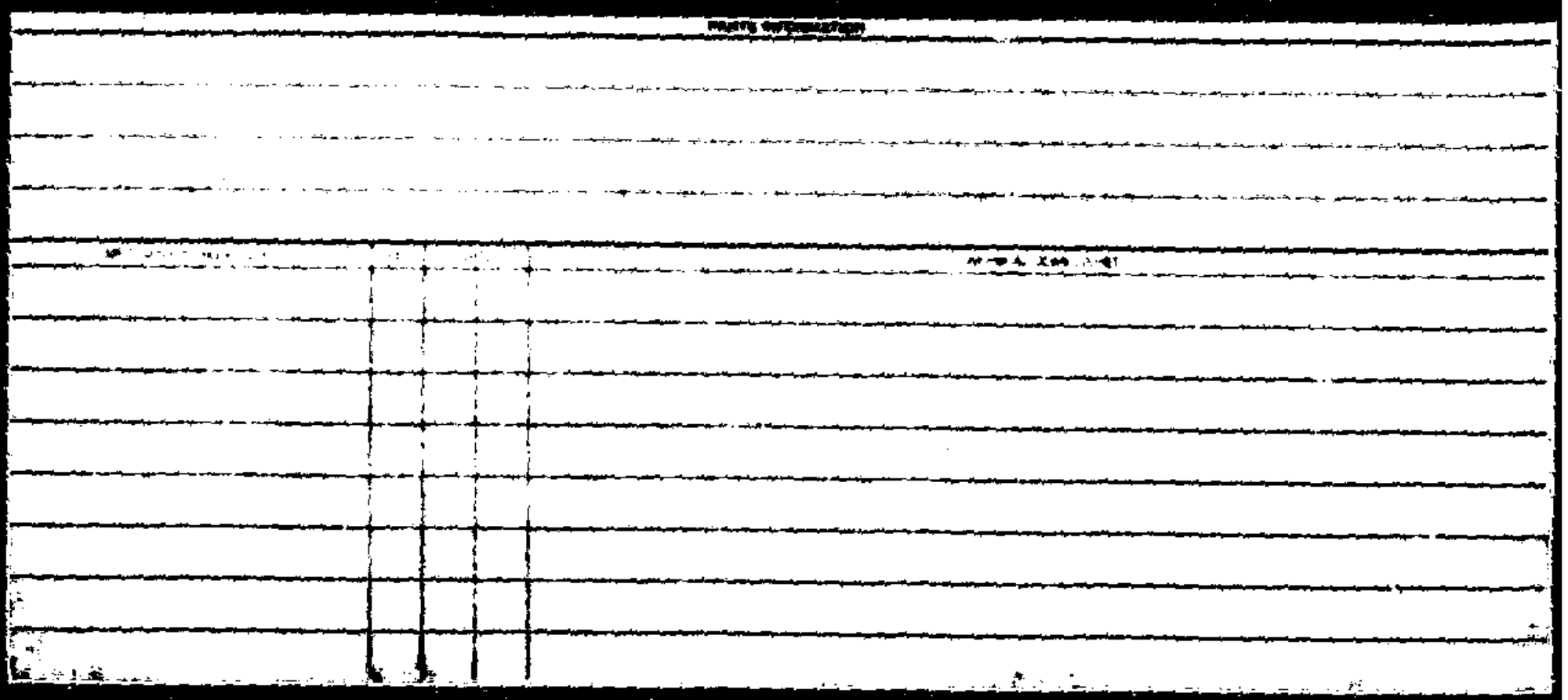
CORRECTIVE ACTION: INSTALLED PER ABOVE [signature] 85735

L977 6966

4612

PROCESSED BY: [signature]

SPECIAL COST NO.



UAL NON-ROUTINE SPR 4129 5-76

SEAL	ENGINE NO	ORDER NO.	ORIGINATOR	PRIORITY
	62697	V528	Stokes 94444	1

DATE	NOSE COWL	COLD SECT	HOT SECT	FAN ASSY
4-14-84	☐	☐	☑	☐

APU

DISP. LEAD	MECH

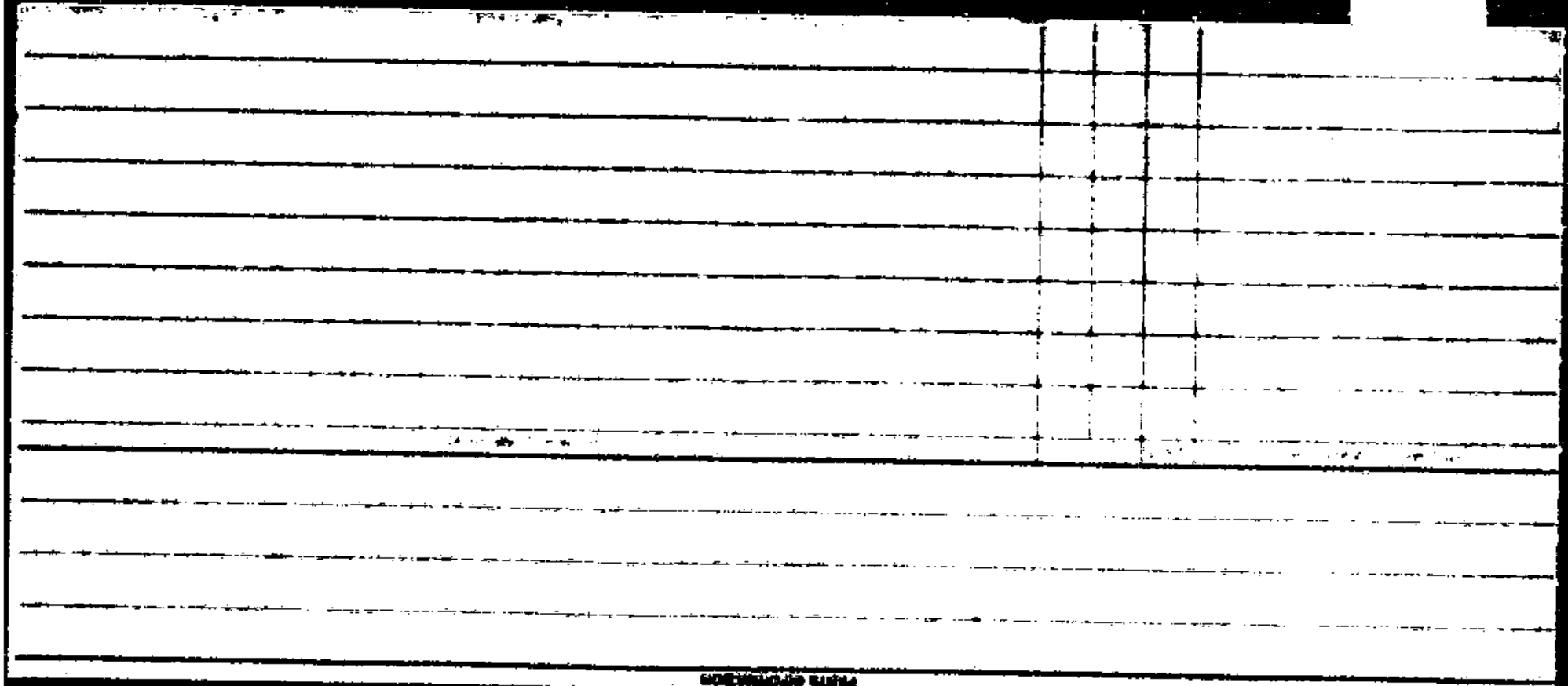
1. Borescope APU Account APU Stalled During TEST CELL RUN

A&P Borescope to determine SERVICEABILITY

CORRECTIVE ACTION: BORESCOPED PER EID 60-49-10-01-00

4616

PROCESSED BY		SPECIAL COST NO.
STOKES		



UNITED
I & R TAG

PART NO.	NAME	DASH NO OFF	SER NO IF NO DASH
285 4ICC - 3016959-6	FAN	DASH NO ON —	MFG SER NO 090346
STA	E74		331 HOURS/CYCLES
	X		DATE SERVICEABLE 3.1.04

THE WORK PERFORMED ON THIS ITEM HAS BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS. WHEN APPLICABLE THIS ITEM HAS BEEN PROCESSED & THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED. PERTINENT INFO IS ON FILE AT [illegible] UAL MAINTENANCE & ENGINEERING STATION AT SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

REMOVED FROM PLANE (No.)	COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
	V528/62694	P	APU	4 9 04	SFOPB

INSTALLED.

SIGNATURE OR STAMP & FILE NO.
Mike Graci C-1572

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

GEN'L REMARKS
UNIT REMARKS
INTERFACE

ON LOCCED BY
ON V 528

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

HOW'S PART(S) FOR INSPECTION AGREE WITH REPORTED TROUBLE? 1 YES 2 NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

JAC CONTROLLED PART

UNITED I&R TAG

											DASHED NO OFF		SER NO IF NO DASH				
											DASH NO CV		REQ SER NO 3240		JTSO —		
443	1170	3726106-1											122 NOMENCLATURE	UNC SHIP CONT	N BATCHABLE	D R	
	X	R											DATE REQUIRED 3-23-09		QUANTITY ONE		

THE REPAIR SPECIFIED HEREIN HAS BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH U.A.L. SPEC 3 & CONFORM TO CURRENT FARS (EXCEPTIONS NOTED BELOW IF APPLICABLE) AND IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED. PERTINENT INFO IS ON FILE AT U.A.L. MAINTENANCE BASE STATION/AIRPORT SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

RETURN TO SERVICE RECORD / PROVISIONAL RELEASE

ITEM SER NO REMOVED FROM UNIT		COMPLETE IF PLANE NOT INVOLVED		COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
		WORK ORDER NO		INSPECTION		DAY	SHOP
		V528/62697		P	API	4 9 C4	SFOPB

REMARKS OR DISCREPANCIES NOTED

747 FOR/FIN---INSTALLED.

SIGNATURE (OR STAMP) & F.L.E.NO.

Mike Grant 05672

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA: AC - CO - 49 - 53 - 20 - JD

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE FOUND: DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO. _____

BCS CONTROLLED PART — HARD TIME UNIT-SERVICEABLE — UNITED I&R TAG

POS	PART NO	NAME	DATE REMOVED	SER NO REMOVED	MSN	DTSO
643	0130	3616868-2 VAI			1385	

	7	122										122	000	N	
	X	JD										3-16-04	1 EA		

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH APPLICABLE & CURRENT REGULATIONS & SIGNED IN THE SERVICEABLE BLOCK. THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED. PERTINENT PART DATA ON FILE AT UAL MAINTENANCE & REPAIR STATION UNDER FAA/FAR & CAA INTERNATIONAL AGREEMENTS.

COMPLETE IF FLIGHT ROTABLE		COMPLETE IF FLIGHT ROTABLE		COMPLETE IF ENGINE ROTABLE		COMPLETE ON ALL UNITS	
CLOCK TO	CYCLES TO	SHOP WORK ORDER NO		TSO	POS	DATE	STA
		V52E/GZ697		P	APU	4.09.04	SFOPB

REMOVAL DUE SEE BACK OF YELLOW STUB

1 ☐ TIME
2 ☐ CONDITION
3 ☐ OTHER

REASON FOR REMOVAL OR INTERRELATED TROUBLE: A-767 FRM/FIM---INSTALLED

SIGNATURE (OR STAMP) & FILE NO: Mark Grant-05672

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

EIN AC-60-49-63-01

REPAIR SHOP DATA - (REQUIRED ENTRIES)

TROUBLE FOUND IS DEFECT/CONDITION AGREEMENT WITH REPORTED TROUBLE? 1 YES 2 NO WAS ITEM REMOVED DUE TO MALFUNCTION OR FAILURE? 1 YES 2 NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

ACS CONTROLLED PART

UNITED
I & R TAG

PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
965 [illegible]	2815103-515 HARNESS	DASHED ON	MFG SER NO / STS

MOVE INDEX	SHIP POINT	BATCHABLE	R
151	1095	N	

X

DATE SERVICEABLE: 3/23/04 | QUANTITY: 1

THE REPAIR(S) OR WORK PERFORMED HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH CAL SPECS & CONFORM TO CURRENT FAR'S WHEN PERFORMED BY A CERTIFICATED REPAIR STATION AS INDICATED IN BLOCK THIS TAG IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT MFD DATA ON FILE AT THE CERTIFICATED REPAIR STATION OR CAL REPAIR STATION LOCATED AT SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

COMPLETE IF PLANE NOT INVOLVED		COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
WORK ORDER NO		WORK CODE	POSITION	DATE	STN
V528 / 62697		P	APU	4 20 04	SFO

REMOVAL OR REPORTED TROUBLE

-747 FCM/FIM--------

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO

6956

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE 7F1509F-505

UNIT REMARKS

TAG AREA

REPAIR SHOP DATA - REQUIRED FOR MR UNITS

TROUBLE FAILURE CODE VERIFICATION AGREE WITH REPORTED TROUBLE? 1 YES 2 NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO. _____

UNITED
I & R TAG

FOR: 25-5111 PART NO: 3611554-1

MAINT SHOP	TO										
	X										

CANCELLED OFF | NEW NO. & KIND OF ITEM

SERIAL NO | MFD PER NO | USED

DATE REC'D | DATE INSTALLED | QUANTITY

THE REPAIRS CERTIFIED HEREIN HAVE BEEN PERFORMED & PARTS USED IN ACCORDANCE WITH THE LATEST REVISED & CURRENT APPROVED DATA, EXCEPT AS NOTED & SIGNED BY THE INSPECTION BLOCK THEREON. IS CERTIFIED AS BEING SATISFACTORY TO THE BEST PERFORMED PERTINENT DATA IS ON FILE AT UAL I & R CAGE EL SEGUNDO & REVAIR STATIONS LAS VEGAS, DENVER, SAN FRANCISCO INTERNATIONAL AIRPORT CAGES.

STORES ISSUE

COMPLETE IF PARTS PROCURED: PURCHASE NO | PURCHASE TAG

COMPLETE IF PARTS RETURNED TO STORES: DATE RECEIVED | V528 / 62697

COMPLETE IF PARTS REMOVED: CONDITION | P | REASON | APU LLP | DATE | 4/8/2004 | STA | SFO

COMPLETE ON ALL TAGS

REMOVAL CODE - SEE BACK OF YELLOW STUB
1 ☐ TIME
2 ☐ CONDITION
3 ☐ OTHER

REMARKS (ENTER ANY OTHER UNITED TRACKING DATA)

INSTALLED ONLY

NEW PART

SIGNATURE (OR STAMP) & FILE NO.
6956

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

REPAIR SHOP DATA -

TROUBLE FOUND [illegible] IF REPEATED TROUBLE? YES NO ADJUSTMENT MADE? YES NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED
I & R TAG

P/N	PART NO	NAME	DASHED NO OFF	SER NO (FND DASH)
265-021C	3822068-1	IMPELLER-C2	DASH NO ON	MFG SER NO: O-501-3201

WAY SHOP	FR	E74	552	LEAD 552												
	X		7227	L97												

551 HOME SHOP | SHIP CONT | BATCHABLE R | DATE REPAIRABLE: 3-18-04 | QUANTITY: 1

THIS PART(S) DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH LAL SPECS & CONFORM TO CURRENT PARTS WHEN INSTALLED IN THE SERVICEABLE CONDITION IT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED LAL HANGER LAL 118 & REPAIR STATION LAL 070 AT SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED		COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	FLIGHT	WORK UNIT LOCATION		FOR ROUTE	POSITION	DATE	STA
		N1516	P135	1	HLA	4.05.04	KOAK

REMARKS (INCLUDE ITEM NO IF APPLICABLE)

REASON FOR REMOVAL OR REPORTED TROUBLE

Installed only

SIGNATURE (OR STAMP) & FILE NO: 6712 21871

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

LOT 601464

ON LOGGED BY 1209A
ON NV518

EPAIR SHOP DATA - (REQUIRED FOR NRTS UNITS)

WAS PART FOUND CORRECTLY AS PER REPORTED TROUBLE? 1 YES 2 NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

UNITED
I&R TAG

DASHED NO OFF	SER NO IF NO DASH
DASHED ON	MFG SER NO / UTCO

P/N: 265-3183 NAME: 38/0002-5 Flushed Assy

STA OF ORIGIN	BAL 552	Level 552							552 HOME SHOP	SHIP CONT	RATCHABLE
7227 X 7227.97									DATE SERVICEABLE 4-6-04		QUANTITY 1EA

THIS REPAIR PERFORMED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS. WHEN APPROPRIATE, I AM DULY AUTHORIZED BY THE U.S. TO CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED. PERTINENT OPD IS ON FILE AT UAL SHOP OVER MAINTENANCE & REPAIR STATION SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

COMPLETE IF FRAME INVOLVED	COMPLETE IF FRAME NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
	QUALIFICATION CLAIMED: NV518 / P1375	MAN CODE: P	POSITION: APU	DATE: 4 8 04	STA: SFO

ACTION TAKEN (CORRECTIVE ACTION)	DESCRIPTION OF REPORTED TROUBLE
	INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO: 95935

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

7227 F-1 DISK 02357-3173 F-1 BLADES 35 EA E3540004-5 7227

REMOVE SHIP UNIT REMARKS & THIS BLOCK

REPAIR SHOP DATA - REQUIRED FOR MRI UNITS

TROUBLE FOUND ON INSPECTION AGREE WITH REPORTED TROUBLE? 1 YES 2 NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 1 YES 2 NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO. _____

UNITED

I & R TAG

P/N	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265·0224 · 3840019-1· DISK-T1			DASH NO ON —	MFG SER NO 0235703173

MAINT CHGS	FS			MFG NEW
365 X 1366	E74	6AC 531 7227		357 HOW RMVD SHP CONT BATCH/LOT R

DATE SERVICEABLE 4·5·04 QUANTITY 1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN PERFORMED BY THE SERVICEABLE CLOCK. THE SHOP IS CERTIFIED AND DRUG WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL R/R CARRIER LALAOMA & REPAIR STA ON LALROTA SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

COMPLETE IF PLANE REMOVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS RECD		COMPLETE ON ALL TAGS	
P/N	S/N	MAINT CHGS (DASH)	MAINT CODE	POSITION	DATE	STA
		NV518/P1375	P	APU	4 6 04	SFOPB

REMOVABLE UNIT BREAK UP VEHICLE SETUP

REASON FOR REMOVAL OR REPORTED TROUBLE

Installed only E3840004-5 T-1 Blade 36 EA

SIGNATURE (OR STAMP) & FILE NO.

7227 15761

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNSERVICEABLE
WITHDRAWN

OK LOGGED BY
NV 518

REPAIR SHOP DATA - REQUIRED FOR MR UNITS:

TROUBLE REPORTED CORRECT? CODES CONDITION AGREE WITH REPORTED TROUBLE? 1 YES 2 NO

WAS OTHER LIKELY CAUSE FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAN. CODE DATE SIGNATURE AND FILE NO.

UNITED
I & R TAG

						DASHED NO OFF		SER NO IF NO DASH			
265-3131	E384000 4-5	T-1 Blades				DASHED ON		UPG SER NO		UTSN	
PART NO FROM	TO							551			
7227	7227							HOURS SINCE	SHIPS CONT	BATCHABLE	R
x								DATE LEFT SERVICEABLE		QUANTITY	
								4-6-04		3 EA	

THE REPAIR OR REPLACEMENT SHOWN HEREON HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE APPLICABLE BLOCK. THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED AIRLINES REPAIR STATION SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
DATE	TIME	WORK ORDER NO	CHARGE CODE	STATION	DATE	STA
		N1518 / P1375	P	APU	4 6 04	SFOPB

RECEIVED FROM VENDOR DATE PLACED IN SERVICE CORRECTED TROUBLE

Installed only T-1 Disk 023570317 3

SIGNATURE (OR STAMP) & FILE NO.

7227 15761

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

REPAIR SHOP DATA - REQUIRED FOR MR UNITS

WAS (EACH) FAILURE DOES CORRECTION AGREE WITH REPORTED TROUBLE? 1 YES 2 NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED
I&R TAG

										CAGE NO OF PART		SER NO IF NO DASH			
P/N		PART NO					NAME			CAGE NO OF		MFG SER NO		LTD	
2ES-0221							3E4900X6-1 Transducer (ESX)								
VEND CODE		DMC GSL	LEAD GSL									552 HOME SHOP	SHOP CONT	RATCHABLE	R
7227	X	7227	L97T									DATE SERVICEABLE 3 11 04		QUANTITY 1 EA	

THE REPAIR(S) LISTED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FAR'S. WHEN EXCEPTIONS EXIST, TABLE BLOCK. THE UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL BASE MAINTENANCE STATION JURISDICTION SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

COMPLETE IF PLANE IS INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
TYPE	TAIL NO	FLIGHT NO ROUTE (FM)	STATION	POSITION	DATE	STA
		NV518/P1375	P	APU	4 8 04	SFO

REMARKS (INCLUDE ANY SPECIAL HANDLING INSTRUCTIONS)

INSTALL ONLY

SIGNATURE (OR STAMP) & FILE NO
6956

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

7227 F2 Disk 00501024 16 F2 Blades 40 EA 4304000B-7227

REPAIR SHOP DATA - REQUIRED FOR MRI UNITS

TROUBLE PARTS DOES / DOES NOT AGREE WITH REPORTED TROUBLE? 1 YES 2 NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP GREEN TINTED LINE OTHER SIDE OF TAG

DISPOSITION 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAN CODE DATE SIGNATURE AND FILE NO

UNITED
I & R TAG

P/N	PART NO	NAME	ORDERED NO OFF	SER NO IF NO DASH
285 0222	384CC7-1	DISK-T2	DASH NO C/N —	MFG SER NO. 0C5C102416

MAN SPEC	PS												UTSO
	E74											551 HOME SHOP	SHIP CONT	BATCH/SER R	Ø
1366x1366												DATE SERVICEABLE 3 11 04			QUANTITY 1

THE REMARKS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS DEEMED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL I&R PARTS/ALAMEDA & REPAIR STATION/ALAMEDA SAN FRANCISCO INTERNAT'L AIRPORT CA 94128 — REMOVED TAG(S) ATTACHED TO PLANE YELLOW

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO.	PLANE TAIL	PLANE/ENGINE LOCATION	WORK CODE*	POSITION	DATE	STA
		NV518/P1375	P	RPH	3 K 04	SFOPS

REMOVAL TAG DEL - SEE BACK OF YELLOW STUB
1 ☐ ENG
2 ☐ PROP
3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE
Installed only 40 T-2 Blade E384000P-2

SIGNATURE (OR STAMP) & FILE NO.
7227 15761

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA: Lot 011059 filed 3-11-04 I36C

ON LOGGED BY 3209A
ON NV518

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RAVLS: DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS:

WORK ACCOMPLISHED:

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO. _____

UNITED
I & R TAG

PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-3177 331T2 SET2	Blade set-T2	DASH NO ON	MFG SER NO / UTSO

PART STATUS	E74		E74 ACTIVE SHOP	SHIP CONT	RAT' HABLE R
TC	X 1209A		DATE SERVICEABLE 03-09-04		QUANTITY 1

THE ABOVE SERVICING WORK HAS BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORMS TO CURRENT FARS WHEN RETURNED SERVICEABLE UNDER THE SER. SEALS DESCRIBED BELOW & CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED. PERTINENT INFO IS ON FILE AT UNITED AIRLINES COMPONENT MAINTENANCE & REPAIR STATION, SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
TAIL NO	STATION	UNIT LOCATION	WORK ORDER	POSITION	DATE	ETA
		NV518/P1375	P	APU	3/16/04	SFOPS

REASON FOR REMOVAL OR REPORTED TROUBLE

Certified only T.O. work on 20 to 24K

SIGNATURE (OR STAMP) & FILE NO.

7227 1576

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNSERVICEABLE
ON THIS ARTICLE

REPAIR SHOP DATA - REQUIRED FOR MR UNITS

WOULD REMOVAL OF THIS CONDITION AGREE WITH REPORTED TROUBLE? 1 YES 2 NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL? 5 YES 6 NO

IF YES WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO. _____

UNITED

I & R TAG

P/N	PART NO			NAME						CASHED NO OFF		SER NO IF NO DASH					
265-0223-3	840022-3			Unit AY T-3						CASH NO ON		MFG SER NO I-345-7045			LTSD		
MAINT SHOPS		E74	552	lend 552								552 HOME SHOP	SHP CONT	BAT CABLE	R		
4744	X		7227	L977								DATE SERVICEABLE 3-28-04			QUANTITY 1		

THE REPAIR DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SPACEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL & RECORDS FACILITY & REPAIR STATION UNITED AIR SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
TAIL NO	FLT NO	STATION AND PART NO	WORK CODE	POSITION	DATE	STA
		NV518 / P1375	P	APU	4 8 04	SFO

REMARKS INCLUDE THE CONDITION FOUND AND CORRECTED TROUBLE RELEASED AS

INSTALL ONLY

SIGNATURE (OR STAMP) & FILE NO

6956

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

ON LOGGED BY I203A
ON NV518

EPAIR SHOP DATA - [illegible] FOR MR UNITS)

[illegible] 1 YES 2 NO [illegible] 5 YES 6 NO

IF YES WHAT CAUSED FAILURE

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP GREEN TINTED LINE OTHER SIDE OF TAG

DISPOSITION 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO. _____

UNITED
I&R TAG

		DASH NO OFF	SER NO IF NO DASH	
PART NO	NAME	DASH NO ON	MFD SER NO	WHO
265 3206 E3844035-4	VANE - T1	—	MG-9-50088	NEW
MAT'L SPEC E71			551 HOURS SINCE NEW OR CONT	RATCHABLE R
X			DATE SERVICEABLE 2-2-04	QUANTITY 1

THE ITEMS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN SIGNED IN THE RECOVERABLE BLOCK THIS UNIT IS CERTIFIED AS CURRENT WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL HQ SAN MATEO CALIFORNIA & HUB STATION(S) LAX, SFO, SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

COMPLETE IF REMOVED	COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
	X460 N518 Lot 73375 ~~V50 Lot 69345~~ X460	WORK STAT* P	POSITION* AFU	DATE 2 27 4	STA SFOPB

REMARKS (INCLUDE SHELF LIFE INFO IF APPLICABLE)

Install Only - T194

SIGNATURE (OR STAMP) & FILE NO.

Ken Fox 102578

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

AE 4150

ON LOGGED BY

ON 11/5/15

EPAIR SHOP DATA – (REQUIRED FOR MRUNITS)

(USABLE PARTS) DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 YES 2 NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 3 YES 4 NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP GREEN TINTED LINE OTHER SIDE OF TAG

DISPOSITION 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO.

UNITED
I & R TAG

P/N	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
	331N02-SEC1	No22L Set Sec	DASH NO ON UA00381056	MFG SER NO / UTSO #

MAT'L CHG'S												HOME SHOP	SHP COAT	BATCHABLE R
		E74										E74		
I209A	X	I209A										DATE SERVICEABLE 04-01-04		QUANTITY 1

THE MAINTENANCE PERFORMED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS. WHEN ENTERED IN BLOCK 14 THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED. PERTINENT INFO IS ON FILE AT UNITED MAINTENANCE STATION & REPAIR STATION, SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
TAIL NO	FLT NO	YOUR ROUTING DASH NO	WORK ORDER	ACTION	DATE	STA
		NV51B/P1375	P	APU	4 8 04	SFO

REMOVAL CODE	REASON FOR REMOVAL OR REPORTED TROUBLE
	INSTALL ONLY

SIGNATURE (OR STAMP) & FILE NO.
6956

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

ON LOGGED BY 209A
ON NV518

EPAIR SHOP DATA - (REQUIRED FOR MAJOR UNITS)

WOULD MAINTENANCE SCHEDULED ACTION AGREE WITH REPORTED TROUBLE? 1 YES 2 NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP GREEN TINTED LINE OTHER SIDE OF TAG

DISPOSITION 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO.

Honeywell 746351-001

UNITED I&R TAG

DEF STAN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-0462	3822099-1	Bearing	DASH NO ON 03900-530	MFG SER NO / TSO 6

CAT SHOP	RI										
		E74								E74 HOME SHOP	CHP CODE	BATCHABLE R
I2U3A X I2U8A										DATE SERVICEABLE 04-01-04	QUANTITY 1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN PROPERLY SIGNED IN THE DATA TABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL E74 REPAIR STATION & REPAIR STATION UAL/SFO SAN FRANCISCO INTERNATIONAL AIRPORT CA&M128

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
FLT NO	ACFT	WORK STAND / DOCKING	RSN CODE*	POSITION	DATE	STA
		NW518/P1375	P	APU	4 8 04	SFO

FAILURE OR REMOVAL OR REPORTED TROUBLE

INSTALL ONLY

SIGNATURE (OR STAMP) & FILE NO
6356

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
WITH RESTRICTION
WITH AREA

ON LOGGED BY 1209A
ON NVS18

REPAIR SHOP DATA - TO BE USED BY SHOPS ONLY

TROUBLE FIRMLY DOES EXAMINATION AGREE WITH REPORTED TROUBLE? 1 YES 2 NO

ANY OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED
I & R TAG

P/N	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
	3S1NOZPR11	Nozzle Set Prim.	DASH NO ON V8000B1053	MFG SER NO UTSO 4

MAINT SPEC	FR	TO												
		E74										E74 HOME SHOP	SHOP CONT	BATCH/LOT NO
I20J2	X	I209A										DATE SERVICEABLE 04-01-04		QUANTITY 1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK. THIS UNIT IS CERTIFIED AIRWORTHY. WITH RESPECT TO THE WORK PERFORMED. PERTINENT INFO IS ON FILE AT UAL AIRFRAME & POWERPLANT REPAIR STATION 4 AT SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NUMBER TAGS IF MORE THAN ONE

COMPLETE IF PLANE INVOLVED			COMPLETE IF PLANE NOT INVOLVED		COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PART NO	SERIAL NO	X450	WAYBILL OR DASH NO		WHO DOES*	POSITION	DATE	STA
			NV518/PL375		P	APU	4 8 04	SFO

REMOVAL WORK ORDER OR REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALL ONLY

SIGNATURE (OR STAMP) & FILE NO
6956

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

ON LOGGED BY I209A
ON NV518

EPAIR SHOP DATA - [illegible] MR UNITS)

ROUBLE PARTS EXPERIENCED ON AGREE WITH REPORTED TROUBLE? 1 YES 2 NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 3 YES 4 NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED:

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO. _____

UNITED
I & R TAG

QTY	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
	265-3097 * 3830051-5	COMB CHAMBER	DASH NO ON —	W.U. SER NO 101041

WORK AREA	DR	551 HOME SHOP	SHIP CONT	BATCHABLE R	DISC Ø
1755 X 1366		DATE SERVICEABLE 3-24-04		QUANTITY 1	

THE REPAIRS REQUIRED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN NOT OTHERWISE STATED THE COMPONENT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL AIRCRAFT PUBLICATIONS & RECORDS DEPT. UA/RENTA SAN FRANCISCO INTERNATIONAL AIRPORT CA94128

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
A/C TYPE	A/C REG	MAKE AND DASH NO	MAN CODE	POSITION	DATE	ETA
		MS 18/P1375T	F	AFU	4/05/04	FEDEX

REMOVAL REASON (SEE BACK) | REASON FOR REMOVAL OR REPORTED TROUBLE

REMOVED	Inventory adj
INSTALLED	
TSN/CSN	

SIGNATURE (OR STAMP) & FILE NO
6712 4/19/71

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNSERVICEABLE
WITHDRAWN

ON LOGGED BY
ON NOV 5 18

REPAIR SHOP DATA - REQUIRED FOR MR UNITS

TROUBLE REPORTED IN "REMARKS" BLOCK AGREE WITH REPORTED TROUBLE? 1 YES 2 NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO. _____

UNITED
I & R TAG

| | | |

ON LOGGED BY I209A

ON NV518

EPAIR SHOP DATA - REQUIRED FOR MR RATE

TROUBLE FIRMLY DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 YES 2 NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED
I & R TAG

P/N	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-0457	3822067-2	Impeller stg 1	DASH NO ON 8-501-3345	MFG SER NO

UTSO: Ø

WORK UNIT NUMBER	FS	E24									E24 HOME STOP	SHIP CONT	BATCHABLE	R
I209A	X	I209A									DATE SERVICEABLE 04-01-04		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN APPROVED IN THE REPAIRABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL A R STARTER UAL/TIA & REPAIR STATION UAL/OTA SAN FRANCISCO INTERNATIONAL AIRPORT CA94128

OUTSIDE SOURCE OF REPAIR OR INSPECTION STAMP AFFIXED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
N NUMBER	FLIGHT NO	WORK ORDER AND TASK NO	WHAT MADE	STATION	DATE	STA
		NW378/A1375T	1	ATL	04 05 04	ATOP5

REMOVAL CODE (SEE BACK OF TAG) | DESCRIPTION OF REMOVAL OR REPORTED TROUBLE

REMOVED
ON A/C NO
AT STATION

Installed only

SIGNATURE (OR STAMP) & FILE NO
8712 A1187

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNTRENCHED
WITH SAFER

OH LOGGED BY 1209A
ON NV518

REPAIR SHOP DATA – (REQUIRED FOR MR UNITS)

TROUBLE FAILED? DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 YES 2 NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO.

UNITED
I & R TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIR SHOP DATA - REQUIRED FOR AIRCRAFT

TAPE/BLEMISH DOES NOT AGREE WITH REPORTED TROUBLE? 1 YES 2 NO

IF YES WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED
I&R TAG

FSN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-0238	3844018-1	Stator AY T3	DASH NO ON	MFG SER NO / UTSO: 0

| MAINT SHOP | OR | | |

SERVICEABLE
UNIT REMARKS
IN THIS AREA

REPAIR SHOP DATA – (REQUIRED FOR MR UNITS)

TROUBLE FOUND: DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO — WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAN CODE _____ DATE _____ SIGNATURE AND FILE NO. _____

UNITED
I & R TAG

P/N: 265-3208 · 3844011-9 STATOR Ay-T2	NAME:	DASHED NO OFF	SER NO IF NO DASH
		DASH NO ON: —	MFG SER NO:	MFG: Ø

WORK ORDER	PO	E74									551 HOURS/CYCLES	SHIP CONT	BATCH/LOT NO
T36 X T366											DATE SERVICEABLE 3-15-04		QUANTITY 1

THE REPAIR(S) DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN PERFORMED BY THE CONTRACTOR LISTED. THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED. PERTINENT INFO IS ON FILE AT UNITED AIRLINES REPAIR STATION NUMBER 5 SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
MFG	MODEL	N/A OR PLANE DASH NO	MAN CODE	POSITION	DATE	STA
		N518/P1375	P	APU	4 8 04	SFO

REMARKS OR DESCRIPTION OF WORK PERFORMED

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE OR STAMP) & F LE NO

9969

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

EPAIR SHOP DATA - (REQUIRED FOR MF UNITS)

TROUBLE FINDING DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 YES 2 NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO. _____

UNITED
I & R TAG

P/N	PART NO	NAME	DASHED NO OFF	SER NO (IF NO DASH)
265-3037	3840011-3	Coupling Rotor	DASH NO ON	MFG SER NO / UTSO 6
MAT'L SPECS	E74			E94 HOME DEPT / SHIP CON'T / BATCHABLE R
X	1209A			DATE SERVICEABLE 04-01-04 / QUANTITY 1

THE WORK REQUIRED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN APPROVED FOR RETURN TO SERVICE. UNLESS OTHERWISE NOTED IN THE REMARKS BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL MAINTENANCE & REPAIR STATION (UAL/MRA) SAN FRANCISCO INTERNATIONAL AIRPORT CA94128

COMPLETE IF A/C INVOLVED	COMPLETE IF A/C NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
	NV518/P1375	P	APU	DATE 4,8,04	STA SFO

REMOVAL REASON (IF REMOVED FOR CONDITIONAL OR REPORTABLE FAILURE)

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO
6956

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
REPAIRABLE
CONDEMNED

REPAIR SHOP DATA - REQUIRED FOR MR UNITS

TROUBLE SHOOTING DOES CORRECTION AGREE WITH REPORTED TROUBLE? 1 YES 2 NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP GREEN TINTED LINE OTHER SIDE OF TAG

DISPOSITION 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED
I & R TAG

PART NO.	NAME	DASHED NO OFF	SER NO IF NO DASH
265 3071 - 3510259-3	HOUSING INLET	DASH NO (2) —	USG SER NO —

| | | |

SERIAL NUMBER

PART NUMBER

NOMENCLATURE

REPAIR SHOP DATA - REQUIRED FOR MP UNITS

TROUBLE FOUND DOES / DOES NOT AGREE WITH REPORTED TROUBLE? 1 YES 2 NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO.

UNITED

I & R TAG

FSN	PART NO	NOME	CASTED NO. OFF	SER. NO. IF NO CASH
265·3645·651 5503·7002· TADPOLE TEAL			DASH NO. LIN —	MFG SER NO —

MAINT CNTRL	PS										UPRO NEW
	X										551 HOME SHOP / SHOP CONT / PATCHABLE / R
											DATE SERVICEABLE 10-17-03 / QUANTITY 1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL SHOP OR REPAIR STATION LOCATED AT SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TYPE	WORK ORDER NO	TRANSACTION	STATION	DATE	STA
		NV518/P1375	P	APU	4 8 04	SFO

REMOVAL CODE - SEE BACK OF YELLOW STUB

- $ ☐ NRT
- ☐ [illegible]
- ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALL ONLY

SIGNATURE OR STAMP & FILE NO.

6958

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS. DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS:

WORK ACCOMPLISHED:

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE_____ DATE_____ SIGNATURE AND FILE NO _____

UNITED
I & R TAG

P/N	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265 C205	3822065-1	SHAFT/SEAL ASSY	DASH NO ON —	MFG SER NO —

| WORK UNIT CHGS | QTY | | |

SERV CEABLE
NT REPAIRS
N THIS AREA

EPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

ROUBLE RMKS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 YES 2 NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED:

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE. OTHER SIDE OF TAG

DISPOSITION 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO.

UNITED

I & R TAG

| | | |

EPAIR SHOP DATA – REQUIRED FOR MR UNITS

WAS ITEM IN SERVICEABLE CONDITION AS RELATED WITH REPORTED TROUBLE? 1 YES 2 NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO. _____

UNITED
I & R TAG

| | | |

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMKS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO HAS IT BEEN CORRECTED IN FUTURE WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO. _____

UNITED
I & R TAG

PART NO	NAME	CASHED NO OFF	SER NO (FMO DASH
265-3164 · 3862099-3	· HOUSING GEARBOX	DASH NO ON –	MFG SER NO IL-2034

MFG													
1	58	1366	E74										

MFG	HOME SHOP	SHIP CONT	RATCHABLE R
	531		

DATE SERVICEABLE	QUANTITY
3-22-04	1

THE REPAIR OF UNIT HEREIN HAS BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORMS TO CURRENT FARS. WHEN APPLICABLE IN THE BOX BELOW THE UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT WO'S ON FILE AT UAL MAINTENANCE BASE, SFO & ROTATIONAL BASE(S) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

COMPLETE FLAME NOT INVOLVED		COMPLETE FLAME NOT INVOLVED		COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
		NHA P/N & A/N NO		EMPLOYEE*	POSITION	DATE	STA
		AV 515	4913 P698	P	OP41	3 24 04	SFOPB

REMOVAL DATE, TIME OR AIRCRAFT REGISTRATION NO. LOCATION

REASON FOR REMOVAL OR REPORTED TROUBLE

Initial

SIGNATURE (OR STAMP) & FILE NO.

C3621

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

REPAIRABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY 366
ON AUG 16

REPAIR SHOP DATA - REQUIRED FOR MR UNITS

WORK STAND DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 YES 2 NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

~~FV518~~ L977 FV 766 L977

UNITED
I & R TAG

265-3012 3810231-21

552

X L977

UA CO.7 1830

4-7-04 1

FV518/P1372 P APU 4 8 04 SFOPS

INSTALLED ONLY

SIGNATURE OR STAMP & FILE NO.
6947

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

ON LOGGED BY
ON FV 518

REPAIR SHOP DATA -

DOUBLE PASS OPERATION AGREE WITH REPAIR INSTRUCTION

IF YES WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 - OVERHAULED 2 - SERVICEABLE 3 - TO VENDOR 4 - SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO. _____

FV518

UNITED
I & R TAG

P/N	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-0059	3822080-3	Impeller - DC	DASH NO ON 1-501-1732	MFG SER NO / UTSC 6

MAN CODE	F	E74	551	Lead 551							E74 HOME SHOP	SHIP CONT	RATCHABLE
22USN	X	I209A	7227								DATE SERVICEABLE 4-05-04		QUANTITY 1

THE ITEMS LISTED HEREIN HAVE BEEN REVIEWED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN SIGNED IN THE ENCIRCLED BLOCK BY A UAL CERTIFIED AUTHORITY WITH RESPECT TO THE WORK PERFORMED. PERTINENT INFO IS ON FILE AT UAL MAINTENANCE & PERFORMANCE, SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128.

COMPLETE IF PLACED IN USE		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
		FV518/P1375	P	BPA	4 F 04	JFUEB

REMARKS (INCLUDE REASON FOR REMOVAL OR REPORTED INCIDENT)

SIGNATURE (OR STAMP) & FILE NO 6947

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

EV 518

EPAIR SHOP DATA - REQUIRED FOR MR UNITS

ROUBLE REPAIRS AND SUBSEQUENTLY AGREE WITH REPORTED TROUBLE? 1 YES 2 NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

UNITED
I&R TAG

P/N	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-0462-3822099-1	BBG	RLR	DASH NO ON	MFG SER NO 6R9100-677 UTSO 0

CMPT CNTRL	EO											MOVE BACK	SHIP CONT	BATCHABLE	R
14744	X	E74 19714										E74			

DATE SERVICEABLE 4-6-04 QUANTITY 1EA

THE REPAIRS LISTED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN APPLICABLE. SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL AIRPORT/HANGAR & REPAIR STATION OAKLAND SAN FRANCISCO INTERNATIONAL AIRPORT CA94128

NOT REQ. IF SEALED BY INSPECTION STAMP

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
		WORK AND DASH NO FY518/P1372	MRA CODE 2	POSITION APU	DATE 4.8.04	STA SFORG

REMOVAL DATE REMOVAL TIME REMOVAL STATION REMOVAL REASON FOR REMOVAL OR REPORTED TROUBLE

SIGNATURE (OR STAMP) & FILE NO 9471

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMOVED IN THIS AREA

ON LOCATION 3 [illegible] 8130/ 904822-001
QTY FV 518

REPAIR SHOP DATA - (USE DOUBLE FOR MR UNITS)

TROUBLE FOUND DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 YES 2 NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO.

UNITED
I & R TAG

	PART NO	NAME		DASHED NO OFF	SER NO IF NO DASH						
265	3238-361382	7-1 BRG thrust		DASH NO ON	MFG SER NO	UTSO					
					UA1998-441	Ø					
MAT'L SUPER					E74						
24764	X				HOME SHOP	SHP CONT	BATCHABLE R				
					DATE SERVICEABLE	QUANTITY					
					4-6-04	1EA					

THE REPAIR(S) DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN SIGNED. THE REMOVABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL/AE REPAIR STATION UAL/OTA SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128 — NO MAINTENANCE REQUIRED / NOT SERVICEABLE TAG ATTACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
		WORK UNIT/DASH NO	CHAPTER	POSITION	DATE	STA
		FYS18/P1373	1	Aft	4.8.04	STOPS

REMARKS (USE BACK IF NEEDED) / DEFECT OR REMOVAL REASON / REPORTED TROUBLE

SIGNATURE (OR STAMP) & FILE NO. 5947

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMOVED FROM THIS AREA

ON EQUIP 24744

FV 518

8130/ 86155

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE FIXED? DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 YES 2 NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO. _____

UNITED
I & R TAG

DESC	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-0592 · 3826140-5 · SCROLL HOUSING			DASH NO ON —	USED SER NO —

PLANT SHOP	FR										USED Ø
		E74								551 HOME SHOP	SHP CONT	BATCHABLE R
6X .360										DATE SERVICEABLE 3-24-04		QUANTITY 1

THE ITEM(S) DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN SIGNED IN THE BOX MARKED "RTS" UNDER BLOCK "A". UNITED CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL MAINTENANCE OPERATIONS DEPARTMENT OAKLAND, CA SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

COMPLETE FOR ANY REMOVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
A/C NO	STATION	WORK ORDER NO	A/C REGD	POSITION	DATE	STA
		FV518/P1379	P	AFT	4 8 04	SFORB

REMOVED DUE TO FAILURE, DAMAGE, WEAR, OR REMOVAL OR REQUIRED TROUBLE (EXPLAIN IN DETAIL)

INSTALLED ONLY

6947

SIGNATURE (OR STAMP) & FILE NO

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED. **UNITED AIRLINES IDENTIFICATION & ROUTING TAG**

SERVICEABLE
RETURNED
OTHER (Explain)

REPAIR SHOP DATA - (REQUIRED FOR MW UNITS)

TROUBLE FINDING DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 YES 2 NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

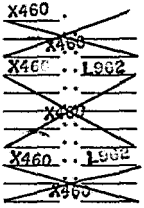
SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO. _____

Job Instruction Card

GTCP331-200 COVER PAGE, BASE CHECK
REV. 06/24/03

V528	62697	V0100.0
ENGINE NO	ENGINE NO	JOB NO

LIST OF ITEMS STARTED BUT NOT SIGNED OFF



NOTE - RIGHT SIGN-OFF COLUMN FOR JOB ISSUED.
LEFT SIGN-OFF COLUMN FOR JOB COMPLETED.

1. THE FOLLOWING JOBS ARE SIGNED OFF CORRECTLY OR ACCOUNTED FOR PROPERLY.
2. ALL ITEMS THAT ARE 'X'ED OUT ARE NOT REQD. THIS VISIT.
   *V0005.0 PARTS AS-RECEIVED INVENTORY CUSTOMER/LEASE
   V0010.0 MR UNIT/TAG ACCOUNTABILITY LIST
   V0101.0 BASE CHECK - PRELIMINARY SERVICE
   V0101.1 BASE CHECK - FINAL SERVICE
   V0101.2 BASE CHECK SERVICE - CSV - C CHECK
   V0101.5 BASE CHECK - PRELIMINARY SERVICE-CUSTOMER
   V0101.6 BASE CHECK - FINAL SERVICE-CUSTOMER
   V0102.0 BASE CHECK - INSPECTION
   V0102.1 M.I.S. CLEAN UP
3. THE FOLLOWING NON-ROUTINE CARDS ARE SIGNED OFF CORRECTLY AND ACCOUNTED FOR. BLANK SPACES INDICATE NO NON-ROUTINES WERE ISSUED.

N/R #	SIGN OFF	N/R #	SIGN OFF	N/R #	SIGN OFF

(SFOPB)COORDINATOR X460 DATE Apr. 14, 2004

W/C 551 SRB

END JOB V-0100.0 REVISED 06/24/03

UNITED

Job Instruction Card

GTCP331-200 BASE CHECK - PRELIMINARY SERVICE
REV. 07/26/02

V528	62697	V0101.0
CRAFT NO.	ENGINE NO.	JOB NO

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

NOTE: THIS IS A HIGH TIME APU. Niro Spool 05672 6526

NOTE - SET TORQUE WRENCH TO THE TORQUE VALUE SPECIFIED. IF NO TORQUE VALUE IS SPECIFIED, USE STANDARD TORQUE PER GN-8-0-2-14.

CAUTION - SCRAP ANY SELF LOCKING NUT WHICH CAN BE TURNED PAST ITS LOCKING FEATURE BY HAND.

WARNING - REMOVAL OF CHIP DETECTOR HOUSING WILL CAUSE OIL TO DRAIN FROM APU. HOT OIL CAN CAUSE BURNS. TAKE NECESSARY PRECAUTIONS.

M 6526 1. -----C CHECK REQUIRED ITEM----- REMOVE THE FOLLOWING AND CHECK FOR METAL. IF METAL FOUND NOTIFY INSPECTION AND REQUEST JIC V0102.1 FROM SCHEDULE CENTER. REMOVE INLET SCREEN, T-DUCT AND SURGE VALVE ELBOW FOR BOROSCOPE ACCESS. IF METAL NOT FOUND, PROCEED TO NEXT SIGNOFF.

A. GEARBOX MAGNETIC CHIP DETECTOR AND CHIP DETECTOR HOUSING.
METAL FOUND YES _____ NO 6526

B. GENERATOR MAGNETIC CHIP DETECTOR AND CHIP DETECTOR HOUSING.
METAL FOUND YES _____ NO 6526
DUPLICATE SIGN-OFF ON JOB V0101.2

L 6526 L ALL ITEMS ARE PROPERLY SIGNED OFF.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

GTCP331-200 BASE CHECK - PRELIMINARY SERVICE
REV. 07/26/02

V528 | 62697 | V0101.0
ENGINE NO. | JOB NO.

M 6526 2. -----C CHECK REQUIRED ITEM----- REMOVE THE FOLLOWING IF INSTALLED, AND CHECK FOR METAL. IF METAL FOUND, NOTIFY INSPECTION AND REQUEST JIC V0102.1 FROM SCHEDULE CENTER. IF METAL NOT FOUND, PROCEED TO NEXT SIGNOFF.

A. TURBINE MAGNETIC CHIP DETECTOR AND CHIP DETECTOR HOUSING.
METAL FOUND YES _____ NO 6526

B. COMPRESSOR MAGNETIC CHIP DETECTOR AND CHIP DETECTOR HOUSING.
METAL FOUND YES _____ NO 6526
DUPLICATE SIGN-OFF ON JOB V0101.2

M 6526 3. -----ENGINE SHOP VISIT REQUIRED ITEM-----
REMOVE MONOPOLE AND CHECK FOR METAL AND STRIKE. IF METAL OR STRIKE FOUND, NOTIFY INSPECTION AND REQUEST JIC V0102.1 FROM SCHEDULE CENTER.
IF NEITHER FOUND, PROCEED TO NEXT SIGN-OFF.

METAL FOUND YES _____ NO 6526
STRIKE YES _____ NO 6526

DUPLICATE SIGN-OFF ON JOB V0101.2

M 6526 4. -----C CHECK REQUIRED ITEM----- VISUALLY CHECK MAIN OIL FILTER DIFFERENTIAL PRESSURE INDICATOR AND RECORD FINDINGS. EXTENDED - YES _____ NO 6526
DUPLICATE SIGN-OFF ON JOB V0101.2

4982 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ON LIST OF ITEMS STARTED BUT NOT SIGNED OFF

M 6526 5. -----C CHECK REQUIRED ITEM----- REMOVE OIL FILTER ELEMENT AND CHECK FOR CONTAMINATION OR DAMAGE. IF EITHER CONTAMINATION OR DAMAGE FOUND, NOTIFY INSPECTION. IF OIL FILTER ELEMENT OK, REINSTALL.

NOTE - O-RING MUST BE REPLACED REGARDLESS OF *OIL FILTER ELEMENT CONDITION.*

METAL FOUND YES _____ NO 6526
DUPLICATE SIGN-OFF ON JOB V0101.2

M 6526 6. -----C CHECK REQUIRED ITEM----- VISUALLY CHECK GENERATOR FILTER DIFFERENTIAL PRESSURE INDICATOR AND RECORD FINDINGS. EXTENDED - YES _____ NO 6526
DUPLICATE SIGN-OFF ON JOB V0101.2

M 6526 7. -----ALL SHOP VISIT REQUIRED ITEM-----REMOVE GENERATOR *OIL* SCAVENGE FILTER AND CHECK FOR METAL. IF METAL FOUND NOTIFY INSPECTION AND REQUEST JIC V0102.1 FROM SCHEDULE CENTER. IF METAL NOT FOUND, REINSTALL OLD FILTER AND PROCEED TO NEXT SIGN-OFF.

METAL FOUND YES _____ NO 6526
DUPLICATE SIGN-OFF ON JOB V0101.2

_____I 8. IF ENGINE TO BE COMPLETELY DISASSEMBLED, AND ALL MODULES TO BE ROUTED FOR DISASSEMBLY, NO FURTHER INSPECTION SIGN-OFFS REQUIRED, THEN PROCEED TO STEP 10.

_____I 9. VISUALLY INSPECT ALL DRIVEN COMPRESSOR IMPELLER BLADES FOR DAMAGE AND/OR IRREGULARITIES, *INCLUDING* LEADING AND TRAILING EDGE WITH BOROSCOPE. ALSO VISUALLY INSPECT POWER SECTION C1 IMPELLER BLADES FOR DAMAGE AND IRREGULARITIES.

_____L ALL ITEMS ARE PROPERLY SIGNED OFF.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

X460. 10. BEFORE CONTINUING WITH BASE CHECK SERVICE, CONTACT PLANNING CONTROL CENTER FOR SCHEDULING OF BASE CHECK INSPECTION JIC V0102.0.

M 6526 11. -----ALL SHOP VISIT REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 1000 HOURS, REMOVE GENERATOR DIFFERENTIAL PRESSURE SWITCH AND ROUTE TO HOME SHOP.
DUPLICATE SIGN-OFF ON JOB V0101.2

M 6526 12. -----C CHECK REQUIRED ITEM----- VISUALLY CHECK FUEL FILTER DIFFERENTIAL PRESSURE INDICATOR AND RECORD FINDINGS.
EXTENDED - YES _____ NO 6526

IF INDICATOR EXTENDED, CHANGE FILTER AND RESET INDICATOR.

M 6526 13. -----ENGINE SHOP VISIT REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 1000 HRS, THEN REMOVE FLOW SENSING MODULE AND ROUTE TO HOME SHOP.

DUPLICATE SIGN-OFF ON JOB V0101.2

M 6526 14. DISCONNECT PNEUMATIC LINES FROM ALL COMPONENTS THEN BLOW OUT LINES USING SHOP AIR.
DUPLICATE SIGN-OFF ON JOB V0101.2

M 6526 15. -----ALL SHOP VISIT REQUIRED ITEM-----
REMOVE PNEUMATIC LINE AND ELBOW FITTING FROM COMPRESSOR INLET PRESSURE SENSOR. BLOW OUT LINE AND FITTING WITH SHOP AIR OR ULTRASONIC CLEAN. MAKE SURE PORT IN INLET PLENUM IS CLEAN WITHOUT DESTRUCTION.

L96 L ALL ITEMS ARE PROPERLY SIGNED OFF.

GTCP331-200 BASE CHECK - PRELIMINARY SERVICE
REV. 07/26/02

V528 | 62697 | V0101.0
ORDER NO. | ENGINE NO. | JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

ITEM 16. LOAD COMPRESSOR WILL BE DISASSEMBLED. Miro Spacil 05672

LM 6628

16. -----ALL SHOP VISIT REQUIRED ITEM-----CHECK INLET GUIDE VANE LINKAGE WEAR AS FOLLOWS.

A. REMOVE IGVA COVER. VISUALLY CHECK FOR WEAR ON TRUNNION BUSHING. VISABLE WEAR IS CAUSE FOR TRUNNION BUSHING REPLACEMENT.

B. REMOVE BOLT ATTACHING BELLCRANK TO LINKAGE ROD END. CHECK FOR WEAR IN BELLCRANK AND FOR DAMAGE OR WEAR TO FORKS. SIDE PLAY AT BELLCRANK PIVOT POINT IS CAUSE FOR BELLCRANK REPLACEMENT. IF BELLCRANK IS REPLACED, REPLACE TRUNNION BUSHING REGARDLESS OF CONDITION.

NOTE - BELLCRANK PIVOT POINT WEAR HAS BEEN NOTED. ANY PLAY IN BELLCRANK INDICATES PIVOT POINT BEARING WEAR.

C. CHECK TRUNNION BLOCK FOR LOOSENESS WHERE TRUNNION ATTACHES TO BELLCRANK. AXIAL FREEPLAY OF BELLCRANK TO TRUNNION IN EXCESS OF 0.020 INCH IS CAUSE FOR TRUNNION BUSHING REPLACEMENT. IF BELLCRANK IS REPLACED, REPLACE BUSHING REGARDLESS OF CONDITION.
CHECK TRUNNION BLOCK FOR DAMAGE AND REPLACE IF DAMAGED.

LOAD L ALL ITEMS ARE PROPERLY SIGNED OFF.

UNITED

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

D. CHECK FOR FREEPLAY IN IGV LINKAGE AND FOR AXIAL PLAY IN ROD ENDS BY MOVING ROD IN AND OUT. AXIAL PLAY UP TO 0.080 INCH WITH NO VISUAL MOVEMENT IN VANES IS ACCEPTABLE.

NOTE - EXCESS FORCE SHOULD NOT BE APPLIED TO OPEN AND CLOSE INLET GUIDE VANES. SIDE PLAY CAUSED BY ROD END BEARING IS NORMAL.

E. REPLACE WORN EXTERNAL PARTS AND REINSTALL IN ACCORDANCE WITH SHOP PROCEDURE 49-25-01/SP AND/OR 49-10-01/SP.

DUPLICATE SIGN-OFF ON JOB V0101.2

M 6526 17. -----ALL SHOP VISIT REQUIRED ITEM-----
CHECK PRESSURE RELIEF VALVE COMBUSTOR DRAIN. REMOVE DRAIN TUBE AND PRESSURE VALVE. CHECK TO SEE IF VALVE CLOSES BETWEEN 10 - 15 PSIG. REPLACE VALVE IF OUT OF LIMIT ON CLOSING PRESSURE. CAP VALVE IF NOT REINSTALLED.

DUPLICATE SIGN-OFF ON JOB V0101.2

M 6526 18. CHECK LRU CLUTCH FOR FREE ROTATION IN CLOCKWISE DIRECTION AND FOR SLIPPAGE OR BINDING IN COUNTER CLOCKWISE DIRECTION.

M 6526 19. -----ALL SHOP VISIT REQUIRED ITEM-----
IF TSLV IS EQUAL TO OR GREATER THAN 1000 HRS TSLSV REMOVE STARTER MOTOR AND ROUTE TO HOME SHOP.

NOTE - IF STARTER MOTOR IS P/N 519858-6, ROUTE TO HOME SHOP REGARDLESS OF TIME.

L ALL ITEMS ARE PROPERLY SIGNED OFF.

DETAIL OF ITEMS STARTED BUT NOT SIGNED OFF

M 6526 20. -----ALL SHOP VISIT REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 1000 HRS THEN REMOVE GEARBOX PRESSURE REGULATING VALVE AND ROUTE. REMOVE GEARBOX REGULATING VALVE ADAPTER AND ROUTE ON ENGINE CART FOR INSPECTION OR CLEANING PER GN 4-0-3-20.
DUPLICATE SIGN-OFF ON JOB V0101.2

M 6526 21. REMOVE THE IGNITION LEAD AND PLACE ON CART FOR INSPECTION (EID/REPAIR).

M 6526 22. -----ALL SHOP VISIT REQUIRED ITEM----- REMOVE IGNITOR PLUG AND ADAPTER AND DISCARD PLUG AND GASKETS
CIRCLE AND ACCOMPLISH A OR B BELOW:

A. ACCEPTABLE. THE DISTANCE BETWEEN EDGE OF ELECTRODE AND INSIDE OF UNERODED EDGE OF GROUND SHELL TIP IS LESS THAN 0.090 INCH. UNIFORM EROSION OF ELECTRODE AND OUTER SHELL IS ACCEPTABLE.
NO CRACKS OR CHIPPED AREA ON CERAMIC INSULATOR.

6526
B. NOT ACCEPTABLE. DISTANCE BETWEEN EDGE OF ELECTRODE AND INSIDE OF UNERODED EDGE OF GROUND SHELL TIP IS GREATER THAN 0.090 INCH.
ANY CRACK OR CHIPS ON INSULATOR AREA.
ELECTRICAL CONNECTOR PIN BURNED OR BENT.
ANY BROKEN OR MISSING PARTS.
SCRAP PLUG LOCALLY.
DUPLICATE SIGN-OFF ON JOB V0101.2

M 6526 23. IT TSLV IS GREATER THAN OR EQUAL TO 1000 APU HOURS, THEN REMOVE EXCITER UNIT AND ROUTE TO HOME SHOP.

1996 L ALL ITEMS ARE PROPERLY SIGNED OFF.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

H 6526 24. -----ESV C CHECK REQUIRED ITEM------
CIRCLE AND ACCOMPLISH A OR B BELOW:

A. IF TIME SINCE HARNESS INSTALLATION IS GREATER THAN 2 YEARS OR NO DATE TAG, ROUTE HARNESS TO HOME SHOP. 6626

B. IF TIME SINCE HARNESS INSTALLATION IS LESS THAN 2 YEARS, PERFORM FUNCTIONAL CHECK PER MJ-60-49-10-02-FC. CHECK WIRING INSULATION FOR BREAKS OR ABRASIONS AND REPAIR AS NEEDED. VISUALLY CHECK ALL MAIN HARNESS CONNECTOR SOCKETS FOR EVIDENCE OF ARCING. REPLACE SOCKETS AS NEEDED. (THIS CHECK IS NOT REQUIRED FOR EGT HARNESSES). IF SBV OR LCV CONNECTORS ARE OLD STYLE WITH CERAMIC INSULATOR, CUT OFF AND DISCARD. IF ELECTRICAL SYSTEM FAILS FUNCTIONAL CHECK, ROUTE HARNESS TO HOME SHOP.

DUPLICATE SIGN-OFF ON JOB V0101.2

H 6526 25. -----ESV REQUIRED ITEM----- PERFORM HEAT CHECK OF THERMOCOUPLE HARNESS AND RECORD FINDINGS.
LEFT SIDE OPERATIVE - YES 6526 NO_____
RIGHT SIDE OPERATIVE - YES 6526 NO_____
CONNECT EGT GAGE TO THERMOCOUPLE HARNESS, P2 PLUG, PINS 10 AND 24 FOR #1 PAIR AND PINS 11 AND 25 FOR #2 PAIR. USING PORTABLE BOTTLE GAS APPLY LOCALIZED HEAT, 1200 F (650 C) MAXIMUM TO EACH PROBE ONE AT A TIME. EGT GAGE SHOULD RESPOND FOR EACH PROBE. IF ANY PROBE DOES NOT RESPOND TO HEAT CHECK, REPLACE PROBE.

H 6526 26. -----ESV REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 1000 HRS, THEN REMOVE COOLING AIR SHUTOFF VALVE AND ROUTE TO HOME SHOP.

Lee L ALL ITEMS ARE PROPERLY SIGNED OFF.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

NOTE - IF COA Y91710 OR M94260 HAS BEEN ACCOMPLISHED, COOLING FAN SHUT-OFF VALVE HAS BEEN DELETED AND NO ACTION IS REQUIRED.

M 6526 27. -----C CHECK REQUIRED ITEM-----
IF TSLV IS GREATER THAN 1000 APU HOURS, REMOVE THE LOW OIL TEMPERATURE SWITCH AND ROUTE TO HOME SHOP.

M 6526 28. -----ALL SHOP VISIT REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 1000 HRS, THEN ROUTE GEARBOX SHUTOFF VALVE TO HOME SHOP.
DUPLICATE SIGN-OFF ON JOB V0101.2

M 6526 29. -----ALL SHOP VISIT REQUIRED ITEM-----
IF TSLV IS EQUAL TO OR GREATER THAN 1000 HOURS, REMOVE SHUTTLE VALVE. DISASSEMBLE VALVE, CLEAN, REPLACE SEALS, AND REASSEMBLE.

L962 LM X 6526 30. -----ALL SHOP VISIT REQUIRED ITEM-----
ACCOMPLISH THE FOLLOWING AND CIRCLE A OR B BELOW:

A. COOLING FAN IS NOT LEAKING OIL. PROCEED TO SIGN-OFF 31.

B. COOLING FAN IS LEAKING OIL.
ROUTE COOLING FAN FOR REPAIR.
DUPLICATE SIGN-OFF ON JOB V0101.2

ITEM 30 COOLING FAN IS BEING ROUTED. Mike Spaid C5672 6526

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

STAPLE OF ITEMS STARTED BUT NOT SIGNED OFF

M 6526 31. -----ESV REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 1000 HOURS
REMOVE FLOW DIVIDER VALVE ASSEMBLY AND ROUTE FOR BENCH
TEST OR REPAIR.

M 6526 32. -----C CHECK REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 1000 HOURS
ROUTE OIL COOLER TO HOME SHOP.
DUPLICATE SIGN-OFF ON JOB V0101.2

M 6526 33. -----ALL SHOP VISIT REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 1000 HOURS,
REMOVE SURGE CONTROL VALVE AND ROUTE TO HOME SHOP.

M 6526 34. -----ALL SHOP VISIT REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 1000 HOURS,
REMOVE LOW OIL PRESSURE SWITCH AND ROUTE TO HOME SHOP.

M 6526 35. -----C CHECK REQUIRED ITEM-----
IF TSLV IS GREATER THAN OR EQUAL TO 1000 APU HRS,
REMOVE THE FUEL CONTROL FOR BENCH TEST.

M 6526 36. -----C CHECK REQUIRED ITEM-----
IF TSLV IS GREATER THAN OR EQUAL TO 1000 APU HRS,
REMOVE THE COMPRESSOR INLET PRESSURE SENSOR (P2)
AND ROUTE TO HOME SHOP.

M 6526 37. -----ALL SHOP VISIT REQUIRED ITEM-----
IF TSLV IS GREATER OR EQUAL TO 1000 APU HOURS, REMOVE
DE-OILER SOLENOID AND ROUTE TO HOME SHOP.

551 JAS

END JOB V-0101.0 REVISED 07/26/02

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

GTCP331-200 BASE CHECK INSPECTION
REV. 08/01/03

V523	62697	V0102.0
PRODUCT	ENGINE NO	JOB NO

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

THE FOLLOWING ARE INSPECTED TO SATISFY "C" CHECKS AND BASE ENGINE CHECK REQUIREMENTS PER GTCP331 EID 49-10-01/I00 AND INTRODUCTION/POLICY SECTION IN BOOK "0". INITIATE NON-ROUTINE (SFR4129) AS REQUIRED AND/OR RE-REVIEW ENGINE TO ACCOMPLISH CORRECTIVE ACTION.

_____ I

*USE "ENGWRK" DISPLAY IN UNIMATIC TO REVIEW INCOMING
*APU OPEN ITEMS. INDICATE IF "ELR" ITEMS ARE PRESENT.
*'X' OUT IF CUSTOMER APU.
*STAMP A OR B BELOW.
*_____A. ELR ITEMS NOT PRESENT. PROCEED TO NEXT ITEM.
*_____B. ELR ITEMS ARE PRESENT. TRANSFER ALL ASSIGNED
* "ELR" ITEMS TO NON ROUTINES. INDICATE ON
* NON ROUTINES TO ACCOMPLISH "ENDATA"
* TRANSACTION IN AMIS (MODE 69) WHEN
* NON ROUTINES ARE CLEARED.
* LIST ELR NUMBER(S) AND EQUIVALENT NON ROUTINE
* NUMBER(S) BELOW.

*ELR	NON ROUTINE	ELR	NON ROUTINE
*			
*			
*			
*			
*			
*			

_____ I

ENGINE TO BE COMPLETELY DISASSEMBLED, ALL MODULES TO BE ROUTED FOR DISASSEMBLY, NO FURTHER SIGN-OFFS REQUIRED.

UNITED

Job Instruction Card

GTCP331-200 BASE CHECK INSPECTION
REV. 08/01/03

V528 62697 V0102.0
AIRCRAFT NO. ENGINE NO. JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

1	_____I	1. VISUALLY INSPECT DRIVEN COMPRESSOR IMPELLER BLADES INCLUDING LEADING AND TRAILING EDGES FOR DAMAGE WITH BORESCOPE.
2		
3		
4		
5	_____I	2. VISUALLY INSPECT POWER SECTION C1 IMPELLER BLADES FOR DAMAGE AND IRREGULARITIES.
6		
7		
8	_____I	3. VISUALLY CHECK INLET OF DRIVEN COMPRESSOR AND POWER SECTION FOR DAMAGE.
9		
10	_____I	4. VISUALLY INSPECT EXPOSED AREAS OF GEARBOX.
11	_____I	5. VISUALLY INSPECT POWER SECTION INSULATION BLANKET AND HEAT SHIELD EXPOSED AREAS INCLUDING COMBUSTION CHAMBER CASE DUCT AREA.
12		
13		
14	_____I	6. VISUALLY INSPECT GEARBOX MOUNTS.
15	_____I	7. VISUALLY INSPECT FWD AND AFT MOUNT BRACKETS.
16	_____I	8. VISUALLY INSPECT COOLING FAN AND SURGE VALVE DUCTING.
17	_____I	9. VISUALLY INSPECT PLUMBING AND COMPONENTS.
18		EMAC 60 4953 000AA 1C
19		MRB 49-044 - 757
20		MRB 49-045 767
21	_____I	10. VISUALLY INSPECT DRAIN LINES, DRAIN MAST AND CONNECTIONS.
22		
23	_____I	11. VISUALLY INSPECT FUEL SYSTEM PLUMBING AND COMPONENTS.
24		
25	_____I	12. VISUALLY INSPECT EXHAUST CASE AND MUFFLER.
26	_____I	13. VISUALLY INSPECT ALL VISIBLE CLAMPS AND BRACKETS.
27		
28		
29		
30		
31		
32		
33		
34		
35		

UNITED

Job Instruction Card

GTCP331-200 BASE CHECK INSPECTION
REV. 08/01/03

V528	62697	V0102.0
MODEL	ENGINE NO.	JOB NO.

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

****

NON-ROUTINES ISSUED:

W/C E74 JAS

END JOB V-0102.0 REVISED 08/01/03

Job Instruction Card

GTCP331-200 COVER PAGE, ENGINE DISASSY/ASSY
REV. 08/13/03

V528	62697	V1000.0
CSCT NO	ENGINE NO	JOB NO

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

NOTE - RIGHT SIGN-OFF COLUMN FOR JOB ISSUED.
LEFT SIGN-OFF COLUMN FOR JOB COMPLETED.

1. THE FOLLOWING JOBS ARE SIGNED OFF CORRECTLY OR ACCOUNTED FOR PROPERLY.
2. ALL ITEMS THAT ARE 'X'ED OUT ARE NOT REQD. THIS VISIT.

X460		V1010.0 ENGINE DISASSEMBLY
X460		V1020.0 EXTERNAL PARTS CLEANING
X460	L902	V1040.0 ENGINE ASSEMBLY - UAL
X460	L902	V1040.1 ENGINE ASSEMBLY - CUSTOMER
		V1080.0 QEC REMOVAL
X460		V1090.0 QEC INSTALLATION
		V1090.1 QEC INSTALLATION - B757
X460	X460	49-10-01/IS02 - ENGINE STALL INSPECTION.
X460		

3. THE FOLLOWING NON-ROUTINE CARDS ARE SIGNED OFF CORRECTLY AND ACCOUNTED FOR. BLANK SPACES INDICATE NO NON-ROUTINES WERE ISSUED.

N/R #	SIGN OFF	N/R #	SIGN OFF	N/R #	SIGN OFF
.....	.....	.....	.....	.....	.....

(SFOPB) COORDINATOR. X460 DATE Apr. 14, 2004
W/C 551 SRB

END JOB V-1000.0 REVISED 08/13/03

UNITED

Job Instruction Card

331 49-10-01 ENGINE DISASSEMBLY
REV. 06/15/00

V528 | 62697 | V1010.0
ENGINE NO. | JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-10-01.

M 6526 1. REMOVE GENERATOR.
M 6526 2. REMOVE SURGE VALVE AND DUCTS.
M 6526 3. REMOVE COOLING FAN DUCTS.
M 6526 4. REMOVE OIL COOLER.
M 6526 5. DISCONNECT AND REMOVE ELECTRICAL HARNESS.
M 6526 6. REMOVE ENGINE PLUMBING.
M 6526 7. REMOVE BLEED AIR DUCT.
M 6526 8. REMOVE COOLING FAN.
M 6526 9. REMOVE STARTER.
M 6526 10. REMOVE FUEL CONTROL.
M 6526 11. REMOVE LUBE PUMP.
M 6526 12. REMOVE GENERATOR SCAVENGE FILTER.
M 6526 13. REMOVE GEARBOX ADAPTER, SOLENOID VALVE AND REGULATOR VALVE.
M 6526 14. *REMOVE MANUFACTURING ENGINE DATA PLATE.
M 6526 15. REMOVE INLET PLENUM.
M 6526 16. DISASSEMBLE UPPER INLET PLENUM.
M 6526 17. REMOVE INLET SCREENS.
M 6526 18. REMOVE GEARBOX.
M 6526 19. REMOVE DRIVEN COMPRESSOR.

551 TMA/6045L JAS/06-15-00
551 LAH

END JOB V-1010.0 REVISED 06/15/00

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

UNITED

Job Instruction Card

GTCP331-200 EXTERNAL PARTS - CLEANING
REV. 06/03/03

V528 62697 V1020.0
ORDER NO. ENGINE NO. JOB NO.

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

1. U 2100 UTILITY MECHANIC (U) CLEAN EXTERNAL COMPONENT PARTS PER GN 4-0-3-20 PROCESS 01 (SOLVENT CLEAN), AND/OR GN 4-0-3-20 PROCESS 2C.

A. OIL LINES, DUCT ASSEMBLIES, OIL FITTINGS AND TUBES. WASH EXTERIOR AND INJECT SOLVENT INTO INTERIOR PASSAGES. ASSURE ALL PASSAGES ARE NOT OBSTRUCTED AND FREE OF DEPOSITS

551 JAS

END JOB V-1020.0 REVISED 06/03/03

1077 L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

GTCP331-200 ENGINE ASSEMBLY - UAL
REV. 09/15/03

V528	62697	V1040.0
ORDER NO.	ENGINE NO.	JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-10-01/SP01.

LM 6956 1.*INSTALL DRIVEN COMPRESSOR.

M 6526 2. INSTALL INLET SCREENS.

LM 6956 3.*INSTALL GEARBOX.

M 6526 4. PREASSEMBLE UPPER INLET PLENUM.

M 6526 5. INSTALL INLET PLENUM.

M 6526 6. INSTALL MANUFACTURING ENGINE DATA PLATE

M 6526 7. INSTALL MONOPOLES.

M 6526 8. INSTALL GENERATOR SCAVENGE FILTER AND GENERATOR DELTA P SWITCH.

M 6526 9. INSTALL GEARBOX ADAPTER, DE-OIL SOLENOID VALVE AND REGULATOR VALVE (ETOPS CONFIGURATION).

M 6526 10. INSTALL LUBE PUMP DE-OIL TUBE AND FUEL CONTROL. (ETOPS CONFIGURATION)

M 6526 11. INSTALL MAIN OIL FILTER ELEMENT.

M 6526 12. INSTALL LRU CLUTCH ASSEMBLY.

M 6956 13. INSTALL OIL COOLER.

M 6526 14. INSTALL STARTER. (ETOPS CONFIGURATION)

L

ALL ITEMS ARE PROPERLY SIGNED OFF.

STATUS OF TENS STARTD BUT NOT SIGNED OFF

V528 62697 V1040.0
ENGINE NO. JOB NO

ITEM 18. IGV ACTUATOR WAS INSTALLED DURING LOAD COMP. ASSEMBLY. Mike Gracik 65672 6526

M 6526 15. INSTALL COOLING FAN.
DUPLICATE SIGN-OFF ON JOB V0101.1
DUPLICATE SIGN-OFF ON JOB V0101.2

M 6526 16. INSTALL FLOW DIVIDER VALVE.

M 6956 17. INSTALL BLEED AIR DUCT.

M 6526 18. INSTALL IGV ACTUATOR.

M 6956 19. INSTALL SURGE CONTROL VALVE.

M 6956 20. INSTALL COMBUSTOR DRAIN PRESSURE RELIEF VALVE.

M 6956 21. INSTALL ENGINE PLUMBING.

M 6526 22. INSTALL FLOW SENSING MODULE.
CHECK FLOW SENSE MODULE AND INDICATE A OR B BELOW.
6526 A. ADJUSTABLE
B. NON-ADJUSTABLE

M 6956 23. INSTALL COMPRESSOR INLET PRESSURE SENSOR (P2)

M 6526 24. INSTALL GEARBOX SHUTOFF VALVE.

M 6526 25. INSTALL OIL LEVEL SWITCH.

M 6526 26. INSTALL LOW OIL TEMPERATURE SWITCH.

M 6956 27. INSTALL ELECTRICAL HARNESS.
(VERIFY DATE TAG IS INSTALLED)

M 6956 28. INSTALL OIL COOLER AND FLEX LINES COA 5-9104
(ETOPS CONFIGURATION).

L977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

GTCP P/N	ENGINE NO.	JOB NO.
V528	62697	V1040.0

M 6956 29. INSTALL COOLING FAN DUCTS.

M 6956 30. INSTALL SURGE VALVE DUCTS.

M 6956 31. INSTALL GENERATOR

NOTE - LUBRICATE APU INPUT SPLINE SHAFT AND O-RINGS WITH GRE4505-1 (CMP 49-01-01).

M 6526 32. INSTALL LOP SWITCH.(ETOPS CONFIGURATION)

M 6526 33. INSTALL HOT SWITCH.

M 6956 34. INSTALL IGNITION EXCITER (ETOPS CONFIGURATION)

M 6956 35. INSTALL GENERATOR AND CONFIRM INSTALLATION OF 1 GENERATOR MAGNETIC CHIP DETECTORS (ETOPS CONFIGURATION).

M 6956 36. INSTALL IGNITION PLUG AND LEAD.

M 6956 37. INSTALL PRISMATIC OIL LEVEL SIGHT GAGE COA 6-9237.

M 6956 38. INSTALL 331-200ER APU DATA PLATE (ETOPS CONFIGURATION) COA 5-9004.

M 6526 39. INSTALL FRONT ENGINE MOUNTS.
--------CONTINUOUS AIRWORTHINESS ITEM----------
CHECK SAFETY

M 6956 40. INSTALL OIL CAP AND ADAPTER ASSEMBLY COA 5-9110.

ITEM 33 LS ACCF 6526 WAS NOT REMOVED. Tillo Grant C5672 6526

1977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

GTCP331-200 ENGINE ASSEMBLY - UAL
REV. 09/15/03

V528 62697 V1040.0
MODEL NO. ENGINE NO. JOB NO.

STATUS OF ITEMS (PARTS BUT NOT SIGNED OFF

1977 LM 6956 41. FINAL ASSEMBLY VERIFICATION.

A. VISUALLY VERIFY ALL PLUMBING IS PROPERLY INSTALLED.

B. VISUALLY VERIFY ALL ELECTRICAL CONNECTORS ARE INSTALLED.

C. VISUALLY VERIFY INLET IS FREE OF F.O.D.

D. VERIFY PRESENCE AND CONDITION OF SAFETY WIRING.

E. VERIFY ENGINE ROTATES SMOOTHLY. LIMITED RUB OF SEALS IN POWER SECTION IS ACCEPTABLE.

551 JAS

END JOB V-1040.0 REVISED 09/15/03

L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

COA Y91710 GTCP331-200 COOLING FAN VALVE DELETION

REV. 10/27/98

V528	62697	V9086.0
ORDER NO.	ENGINE NO.	JOB NO.

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

* NO COOLING FAN VALVE INSTALLED. ENG. HAD STRAIGHT DUCT INSTALLED PLENUM HAS NO MOUNT SHELF FOR VALVE. 6956

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CCCCCCC      000000      AAAA
CCCCCCCC    00    00    AA  AA
CCC         00    00   AA    AA
CCC         00    00   AAAAAAAAAA
CCCCCCCC    00    00   AA      AA
 CCCCCCC     000000    AA      AA
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WORK CENTER - 551 STALL

*EFFECTIVITY - B757-222 AIRCRAFT

SFOEP CONTACT - FERNANDO CRAFF 4-2386

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ON COMPLETION OF THIS JIC ENTER "ON" INFORMATION BELOW FOR ENGINE TYPE V AND ACCOMPLISH EMOEVT ON PRTSRV TRANSACTION.

ENGINE ORDER NUMBER V528

ENGINE SERIAL NUMBER 62697

****

NOTE - ACCOMPLISH ALL REMOVAL/INSTALLATION REQUEST PER APPLICABLE JOB INSTRUCTION CARDS (JIC).

REASON - MODIFICATION OF THE COOLING FAN SHUT OFF VALVE AND WIRING HARNESS ASSEMBLY AND REPLACEMENT OF THE COOLING FAN SHUT OFF VALVE WITH VALVE BODY ASSEMBLY.

UNITED

COA Y91710 GTCP331-200 COOLING FAN VALVE DELETION,
REV. 10/27/98

ORDER NO. 92697 ENGINE NO. V9086.0 JOB NO.

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

CURRENT PARTS AFFECTED

OLD P/N	ACTION	NEW P/N	QTY	DESCRIPTION
397728-4-1	RWK	3617459-1	1	VALVE ASSEMBLY
3884227-1	DIS	N/A	1	PNEU TUBE
		MS21914-4	1	CAP

6956 M ___ 1. DRAW FROM STOCK VALVE BODY ASSEMBLY P/N 3617459-1.
DUPLICATE SIGN-OFF ON JOB V9086.1

6956 M ___ 2. REMOVE PNEUMATIC TUBE P/N 3884227-1 FROM SURGE CONTROL VALVE P/N MR49532, TO COOLING FAN SHUTOFF VALVE. REFER TO IPC 49-10-00A-000G, ITEM 10.
DUPLICATE SIGN-OFF ON JOB V9086.1

6956 M ___ 3. REMOVE COOLING FAN SHUTOFF VALVE PN MR49505 FROM APU.
DUPLICATE SIGN-OFF ON JOB V9086.1

6956 M ___ 4. INSTALL MODIFIED VALVE BODY ASSEMBLY PN 3617459-1.
DUPLICATE SIGN-OFF ON JOB V9086.1

6956 M ___ 5. INSTALL CAP PN MS21914-4 ON SURGE CONTROL VALVE FITTING, WHERE REMOVED PNEUMATIC LINE USED TO BE CONNECTED.
DUPLICATE SIGN-OFF ON JOB V9086.1

6956 M ___ 6. ROUTE REMOVED COOLING FAN SHUTOFF VALVE TO WC122, STATING REASON FOR REMOVAL: MODIFY PER COA Y9171.0.
DUPLICATE SIGN-OFF ON JOB V9086.1

6956 M ___ 7. DISCARD LOCALLY REMOVED TUBE P/N 3884227-1.
DUPLICATE SIGN-OFF ON JOB V9086.1

UNITED

COA Y91710 GTCP331-200 COOLING FAN VALVE DELETION

REV. 10/27/98

V528 | 692697 | V9086.0
ORDER NO. | ENGINE NO. | JOB NO.

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

6956 X

8. WIRING HARNESS MODIFICATION PROCEDURE ON APU:

(A) REMOVE P21 CONNECTOR AND IDENTIFY PIN 1 WIRE.

(B) CUT BACK PIN 2 WIRE, INSTALL AND CRIMP-ON TERMINATOR CAP.

(C) DISASSEMBLE P6 CONNECTOR BACK SHELL, LOCATE AND REMOVE PIN 1.

(D) RE-ROUTE PIN 1 WIRE AND P21 CONNECTOR INTO WIRE BUNDLE FOR P6.

(E) SPLICE P21 CONNECTOR NO.1 WIRE INTO P6 CONNECTOR NO.1 WIRE. A MINIMUM OF 12 INCHES BACK FROM P6 CONNECTOR. USE SOLDER SLEEVE P/N D101-00 (561-5093).

(F) PLACE HEAT SHRINK SLEEVING P/N INS6141B1/8BK (560-8983) OVER JOINT AND SHRINK IN PLACE.

(G) RE-ASSEMBLE P6 CONNECTOR, AND RETIE WIRES AS NEEDED.

DUPLICATE SIGN-OFF ON JOB V9086.1

551 JAS

END JOB V-9086.0 REVISED 10/27/98

Job Instruction Card

COA Y95591 FLOW SENSE MODULE PALLET ASSY REWORK
REV. 02/26/04

V528 | 62697 | V9108.0
ENGINE NO. | JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

* FLOW SENSE MODULE REC'D FROM SHOP W/COA ALREADY COMPLETE, INSTALL ONLY 6956

X460

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 CCCCCCC   OOOOOO      AAA
CCCCCCC   OO    OO    AA AA
CCC       OO    OO   AA   AA
CCC       OO    OO  AAAAAAAAA
CCCCCCC   OO    OO  AA     AA
 CCCCCCC   OOOOOO   AA     AA
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WORK CENTER - 551 STALL

REFERENCE - Y95591 ER1 SB GTCP331-49-7711

EFFECTIVITY - V

APPENDIX PAGES - NONE CATEGORY - 2

SFOEP CONTACT - GEORGE SKOUFOS EXT - 4-2383

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ON COMPLETION OF THIS JIC ENTER "ON" INFORMATION BELOW FOR ENGINE TYPE V AND ACCOMPLISH EMOEVT ON PRTSRV TRANSACTION.

ENGINE/ ORDER NUMBER V528

ENGINE/ SERIAL NUMBER 62697

****

NOTE - ACCOMPLISH ALL REMOVAL/INSTALLATION REQUEST PER APPLICABLE JOB INSTRUCTION CARDS (JIC).

REASON - REWORK FLOW SENSE MODULE TO ALLOW FLOW SENSOR PROBE TO BE INSTALLED SEPARATELY AND ADJUSTED IN THE TEST CELL TO AN INDIVIDUAL APU.

Job Instruction Card

COA Y95591 FLOW SENSE MODULE PALLET ASSY REWORK
REV. 02/26/04

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

1598 (ENGINE NO.) 63697 (JOB NO.) V9108.0

CURRENT PARTS AFFECTED

OLD P/N	ACTION	NEW P/N	QTY	DESCRIPTION
3614400-1/-7/-8	RWK	3885081-1	1	FLOW MODULE
NONE	INST	3614408-1	1	PROBE,PT
NONE	INST	3614104-4	1	SENSOR,PS
NONE	INST	3876179-2	1	GASKET
NONE	INST	MS9565-04	1	BOLT
NONE	INST	NAS1149CO332R	1	WASHER
NONE	INST	3614649-1	1	COVER
NONE	INST	NAS1216-3E5	1	SCREW
NONE	INST	MS9386-109	4	PACKING
NONE	INST	MS9565-07	2	BOLT

ITEM 1B - COMPLETED COA ACP BY SHOP, INSTALLED ON UP ON ENGINE AT BUILD-UP 6956

M ~~6956~~ 1. VISUALLY CHECK FOR NEW FLOW SENSE MODULE ASSY PN 3885081-1. STAMP A OR B BELOW.

_____A. NEW FLOW SENSE MODULE NOT INSTALLED, PROCEED TO NEXT ITEM, STEP #2.

6956 B. NEW FLOW SENSE MODULE IS INSTALLED. NO FURTHER SIGNOFF REQUIRED. PROCEED TO LAST ITEM, STEP #8.

6956
M X 2. DISASSEMBLE APU TO THE EXTENT NECESSARY TO REMOVE THE PNEUMATIC FLOW SENSING MODULE PN 3614400-1/-7/-8. CHECK THE FLOW SENSING MODULE AND STAMP A OR B BELOW:

_____A. ADJUSTABLE

_____B. NON-ADJUSTABLE

NOTE - IF NON-ADJUSTABLE FLOW SENSOR MODULE INSTALLED CONTACT SFOPB-PLANNER TO PROVIDE ADJUSTABLE FLOW SENSOR TO BE INSTALLED DURING ASSSEMBLY OF APU.

COA V95591 FLOW SENSE MODULE PALLET ASSY REWORK
REV. 02/26/04

1528 | 62697 | V9108.0
ORDER NO. ENGINE NO. JOB NO.

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

6956 MG

3. ATTACH I&R TAG TO REMOVED PNEUMATIC FLOW SENSING MODULE ASSEMBLY PN 3614400-1/-7/-8, MR49101 PCN 265-9107.
WRITE ON I&R TAG - "UPGRADE PER CCOA 0-5585"

NOTE - AFTER UNIT IS ROUTED TO HOME SHOP 122 FOR COA UPGRADE, THE MODIFIED PN 3885081-1 MR49115 PCN 265-9157 WILL BE RETURNED TO THE APU SHOP TO BE INSTALLED ON THE SAME APU. THE FLOW SENSOR PROBE WILL BE ATTACHED TO THE PNEUMATIC MODULE IN A BAG TO BE INSTALLED DIRECTLY ONTO THE ENGINE.

COA Y95591 FLOW SENSE MODULE PALLET ASSY REWORK

REV. 02/26/04

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

1538 | 62697 | V9108.0

ENGINE NO. JOB NO

6956 M

4. ASSEMBLE THE PROBES.

(A) INSTALL PACKINGS PN MS9386-109 ON THE STATIC PRESSURE SENSOR PROBE PN 3614104-4.

(B) INSTALL WASHER PN NAS1149C0332R ON BOLT PN MS9565-04 AND INSTALL STATIC PRESSURE SENSOR PROBE PN 3614104-4 WITH BOLT INTO TOTAL PROBE HOUSING PN 3614408-1.

(C) ALIGN CENTER SCRIBE MARKING ON STATIC PRESSURE SENSOR PROBE WITH SCRIBE MARKING ON TOTAL PROBE. TIGHTEN ADJUSTMENT BOLT PN MS9565-04 TO 35 POUND-INCHES.

NOTE - SAFETY WIRE WILL BE INSTALLED AFTER TEST CELL FINAL ADJUSTMENT OF THE PROBE SETTINGS.

(D) INSTALL PROTECTIVE COVER PN 3614649-1 WITH SCREW PN NAS1216-3E5

6956 M

5. INSTALL THE PROBES AND GASKET INTO THE APU.

(A) INSTALL THE PROBES AND GASKET PN 3876179-2 WITH BOLTS PN MS9565-07. TIGHTEN BOLTS TO 50-55 POUND-INCHES TORQUE. SAFETY WIRE.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

COA Y95591 FLOW SENSE MODULE PALLET ASSY REWORK
REV. 02/26/04

11528 | 62697 | V9108.0
ENGINE NO. | JOB NO.

6956 M X 6. INSTALL THE PNEUMATIC MODULE ASSEMBLY:
(A) INSTALL THE PNEUMATIC MODULE PALLET ASSY PN 3885081-1 TO THE SCROLL HOUSING.

NOTE - THE PALLET BASE PLATE IS POSITIONED UNDERNEATH THE PROBE FLANGE.

(B) INSTALL JUMPER WIRE PN MS25083-7BB4 FROM THE PALLET TO THE BOLT PN MS9556-07. INSTALL BOLTS PN MS9556-06 AND PN MS9556-07 AND TIGHTEN TO 35 POUND-INCHES TORQUE.

(C) ATTACH WIRING HANRESS CONNECTORS. SAFETY WIRE.

6956 M X 7. ATTACH MANIFOLD TUBES:
(A) INSTALL PACKINGS PN MS9386-109 TO MANIFOLD TUBES PN 3615873-1 AND PN 3614411-1.

CAUTION - MAKE SURE PACKINGS ARE INSTALLED PRIOR TO TUBE INSTALLATION INTO PROBES.

(B) INSTALL TWO MANIFOLD TUBES FROM THE PALLET ASSEMBLY TO THE PRESSURE PROBE ASSEMBLY. ATTACH WITH RETAINERS PN 3614419-1 AND BOLTS PN MS9556-04. TIGHTEN BOLTS PN MS9556-04 TO 35 POUND-INCHES.

X460 . 8. PERFORM EMOEVT AND SHOW ACCOMPLISHMENT OF CMCOA Y-95591.

551 SRB

END JOB V-9108.0 REVISED 02/26/04

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

Job Instruction Card

COA 0-9227 757/767 PNEU FLOW SEN MOD UPGRADE
REV. 07/22/99

ORDER NO.	ENGINE NO.	JOB NO.
V528	62697	V9088.0

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CCCCCCCC OO OO AA AA
CCC OO OO AA AA
CCC OO OO AAAAAAAAAA
CCCCCCCC OO OO AA AA
CCCCCCC OOOOOO AA AA

WORK CENTER - 551 STALL

EFFECTIVITY - 757/767 (GTCP 331-200 APU)

SFOEP CONTACT - FERNANDO CRAFF 4-2386

****

ON COMPLETION OF THIS JIC ENTER "ON" INFORMATION BELOW FOR ENGINE TYPE V AND ACCOMPLISH EMOEVT ON PRTSRV TRANSACTION.

ENGINE ORDER NUMBER V528

ENGINE SERIAL NUMBER 62697

****

NOTE - ACCOMPLISH ALL REMOVAL/INSTALLATION REQUEST PER APPLICABLE JOB INSTRUCTION CARDS (JIC).

REASON - PROVIDE TECHNICAL INFORMATION FOR THE REPLACEMENT OF THE OLD PNEUMATIC CLUSTER, WITH THE INSTALLATION OF THE NEW PNEUMATIC FLOW SENSING MODULE ON THE APU.

UNITED

Job Instruction Card

COA 0-9227 757/767 PNEU FLOW SEN MOD UPGRADE
REV. 07/22/99

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

V528 62697 W9088.0
ORDER NO. ENGINE NO. JOB NO.

CURRENT PARTS AFFECTED

OLD P/N	ACTION	NEW P/N	QTY	DESCRIPTION
3614400-0-600U	RPL	3614400-1	1	PNEU. CLUSTR AY
3880436-1	RPL	3614748-1	1	SCAVENGE TUBE
3611159-1	RPL	3614747-1	1	FWD BRG VNT TUBE
3880257-1	RPL	3880438-1	1	MID-BRG TUBE (L)
3880258-1	RPL	3880568-1	1	MID-BRG TUBE (R)
3880239-2	RPL	3880360-2	1	DRAIN FITTING
MS21907W4	RPL	MS21902J4	1	UNION
3876096-1	RPL	3614673-1	1	STATIC RING/SPCR
3880262-1	RPL	3880648-1	1	DRAIN TUBE

M 6526 1. VERIFY IF COA HAS BEEN PREVIOUSLY ACCOMPLISHED BY LOOKING AT SERIAL NUMBER DATA PLATE. IF SERIAL NUMBER IS BELOW 61632, PROCEED TO NEXT STEP.

M 6526 2. DRAW FLOW SENSING MODULE KIT (PCN 106-0014) FROM KIT STORES.

M 6526 3. DRAW FROM STOCK, A FLOW SENSING MODULE P/N 3614400-1 (PCN 265-9107). USE CCN # E55-35-179227 (COA 0-9227).

M 6526 4. REMOVE OLD PNEUMATIC CLUSTER ASSEMELBY P/N 3614400-0-600U. STATE COA 0-9227 AS REASON FOR REMOVAL AND ROUTE TO SHOP 122.

M 6526 5.*REMOVE STATIC RING P/N 3876096-1 AND SCRAP LOCALLY.
*INSTALL SPACER P/N 3614673-1.

M 6526 6. REMOVE MID-FRAME SCAVENGE TUBE P/N 3880436-1, AND INSTALL NEW TUBE P/N 3614748-1.

UNITED

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

ORDER NO.	ENGINE NO.	JOB NO.
1528	62697	V9088.0

M 6526 7. REMOVE FORWARD BEARING TUBE P/N 3611159-1.

M 6526 8. REMOVE OLD (CROSS TYPE) DRAIN FITTING P/N 3880239-2, AND INSTALL DRAIN FITTING P/N 3880360-2.

M 6526 9. REMOVE ELBOW P/N MS21907W4 FROM DRIVEN COMPRESSOR, FORWARD BEARING VENT TUBE CONNECTION, AND INSTALL UNION P/N MS21902J4.

M 6526 10. INSTALL FORWARD BEARING TUBE P/N 3614747-1.

M 6526 11. REMOVE LEFT MID-BEARING TUBE P/N 3880257-1, AND INSTALL NEW TUBE P/N 3880438-1.

M 6526 12. REMOVE RIGHT MID-BEARING TUBE P/N 3880258-1, AND INSTALL NEW TUBE P/N 3880568-1.

M 6526 13. INSTALL DRAIN TUBE P/N 3880648-1 TO DRAIN FITTING P/N 3880360-2 AND DRAIN CLUSTER ASSEMBLY.

M 6526 14. INSTALL NEW FLOW SENSING MODULE P/N 3614400-1.

551 JAS

END JOB V-9088.0 REVISED 07/22/99

Job Instruction Card

COA 5-9004 B757 331 APU S/N DATA PLATE INSTALL

REV. 04/01/96

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

1538	62697	V9039.0
ORDER NO.	ENGINE NO.	JOB NO.

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CCC         00    00   AA    AA
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WORK CENTER - 551 STALL (INSTALLATION)

SFOEP CONTACT - B. MISKIMEN

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X460.

ON COMPLETION OF THIS JIC ENTER "ON" INFORMATION BELOW FOR ENGINE TYPE V AND ACCOMPLISH EMOEVT ON PRTSRV TRANSACTION.

- ENGINE ORDER NUMBER 1538

- ENGINE SERIAL NUMBER 62697

****

NOTE - ACCOMPLISH ALL REMOVAL/INSTALLATION REQUEST PER APPLICABLE JOB INSTRUCTION CARDS (JIC).

REASON - TO INSTALL SERIAL NUMBER DATA PLATE TO STANDARDIZE B757 AND B767 APU CONFIGURATIONS FOR INTERCHANGEABILITY.

CURRENT PARTS AFFECTED

OLD P/N	ACTION	NEW P/N	QTY	DESCRIPTION
- -		MR49112	1	APU
- -	NEW	3F16840-1	1	BRACKET

COA 5-9004 B757 331 APU S/N DATA PLATE INSTALL
REV. 04/01/96

ORDER NO.	ENGINE NO.	JOB NO.
1528	62697	V9039.0

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

L977 L

1. CHECK FOR PREVIOUS ACCOMPLISHMENT AND CIRCLE A OR B BELOW.
   A. PREVIOUSLY ACCOMPLISHED. NEW P/N BRACKET AND PLACARD IS INSTALLED ON THE GRBX FLANGE BELOW THE RIGHT HAND FORWARD MOUNT. NO FURTHER ACTION REQUIRED.

   B. NOT ACCOMPLISHED. PROCEED TO NEXT ITEM.

M 6956 2. *OBTAIN BRACKET AND PLACARD FROM BENCH STOCK. INSTALL *PLACARD ON BRACKET USING SIL3000-5 SILICONE ADHESIVE.

M 6966 3. INSTALL BRACKET/PLACARD ASSEMBLY ONTO GEARBOX FLANGE PER UA IPC 49-27-00A-000D.

551 ENGINEER - BOB MISKIMEN SRB

END JOB V-9039.0 REVISED 04/01/96

UNITED

Job Instruction Card

COA 5-9110 B757/767 GTCP331 APU OIL CAP/ADPTR AY

REV. 08/05/97

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

ORDER NO	ENGINE NO	JOB NO
1528	636997	V9052.0

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WORK CENTER - 551 STALL

SFOEP CONTACT - B. MISKIMEN

****

ON COMPLETION OF THIS JIC ENTER "ON" INFORMATION BELOW FOR MODULE TYPE I AND ACCOMPLISH EMOEVT ON PRTSRV TRANSACTION.

ENGINE/MODULE ORDER NUMBER 1528

ENGINE/MODULE SERIAL NUMBER 636997

****

NOTE - ACCOMPLISH ALL REMOVAL/INSTALLATION REQUEST PER APPLICABLE JOB INSTRUCTION CARDS (JIC).

REASON - TO REPLACE OIL CAP AND ADAPTER ASSY PN 3862211-1 WITH A HINGED CAP AND ADAPTER ASSY 428-259.

COA KIT - 106-4025

COA 5-9110 B757/767 GTCP331 APU OIL CAP/ADPTR AY
REV. 08/05/97

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

ORDER NO.	ENGINE NO.	JOB NO.
11528	62697	V9052.0

CURRENT PARTS AFFECTED

OLD P/N	ACTION	NEW P/N	QTY	DESCRIPTION
3862211-1	RPL	428-259	1	CAP/ADPTR AY
428-184	RPL	428-282	1	CAP ASSY

M 4897 1. CHECK FOR PREVIOUS ACCOMPLISHMENT.

M 4897 2. REMOVE OLD CAP AND ADAPTER ASSEMBLY, PN 3862211-1.

M 4897 3. DRAW NEW CAP AND ADAPTER ASSEMBLY, PN 428-259 FROM KIT STORES (106-4025) AND (750-2436).

M 4897 4. INSTALL NEW CAP AND ADAPTER ASSEMBLY, PN 428-259 WITH O-RING/PACKING M83248/1-147.

551 GMS

END JOB V-9052.0 REVISED 08/05/97

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

Job Instruction Card

COA 5-9127 331-200 APU SURGE CNTRL PLMBING MOD
REV. 04/27/00

ORDER NO.	ENGINE NO.	JOB NO.
1528	62697	V9080.0

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WORK CENTER - 551 STALL

SFOEP CONTACT - FERNANDO CRAFF 4-2386

****

ON COMPLETION OF THIS JIC ENTER "ON" INFORMATION BELOW FOR ENGINE TYPE V AND ACCOMPLISH EMOEVT ON PRTSRV TRANSACTION.

ENGINE ORDER NUMBER 1528

ENGINE SERIAL NUMBER 62697

****

NOTE - ACCOMPLISH ALL REMOVAL/INSTALLATION REQUEST PER APPLICABLE JOB INSTRUCTION CARDS (JIC).

REASON - MODIFY THE SURGE CONTROL VALVE PLUMBING BY REMOVING THE EXISTING PNEUMATIC TUBE >>>>> P/N 3884404-1, AND REPLACING IT WITH A SERPENTINE TUBE P/N 1F17163.

UNITED

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

V528 (ORDER NO) 62697 (ENGINE NO.) V9080.0 (JOB NO.)

CURRENT PARTS AFFECTED

OLD P/N	ACTION	NEW P/N	QTY	DESCRIPTION
3884404-1	RPL	1F17163-501	1	TUBE-COOLING
3884413-1	RPL	1F17163-501	1	TUBE-COOLING
	INST	1F17164-501	1	HOSE ASSEMBLY
	INST	1F17164-502	1	HOSE ASSEMBLY
	INST	1F17165-501	1	BRACKET
	INST	1F17165-502	1	BRACKET
	INST	MS21902J4	1	UNION
	INST	MS21904-4	1	ELBOW-90 DEG.

M6956 1. DRAW KIT NUMBER 106-0016 UAL KIT STORES.

M9969 2. REMOVE EXISTING PCD2 TUBE P/N 3884404-1. (SEE IPC 49-10-00A-000E).

M6956 3. INSTALL COOLING AIR TUBE P/N 1F17163-501 TO APU UPPER PLENUM P/N 3810213-7 (SEE FIGURE 1 OR IPC).

A. ATTACH 2 EACH BRACKETS P/N 1F17165-501 AND P/N 1F17165-502 TO UPPER AFT SIDE OF INLET PLENUM, USING 4 NUT PLATES P/N MS21060-3 (753-4127), 8 RIVETS P/N BACR15DR3-2 (752-2572) AND 4 BOLTS P/N MS21279-04 (753-1843).

B. INSTALL COOLING AIR TUBE 1F17163-501 TO BRACKETS P/N 1F17165-501 AND 1F17165-502, USING 10 CLAMPS MS9349-03 ,(753-8346), 10 BOLTS P/N MS21279-05 (753-1759), AND 6 NUTS P/N MS21043-3 (752-2401).

C. REIDENTIFY PLENUM ASSEMBLY P/N 3810213-7 BY ADDING A U1 SUFFIX AFTER THE EXISTING PART NUMBER PER GN 1-0-1-7, VIBROPEEN METHOD.

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

M6956 4. INSTALL HOSE ASSEMBLY P/N 1F17164-501 AND CONNECT FROM PCD2 ELBOW TO LOWER FITTING OF COOLING AIR TUBE P/N 1F17163-501, WITH ELBOW P/N MS21904-4.

CAUTION - SUPPORT ELBOW WHEN TIGHTENING HOSE ASSEMBLY TO COOLING AIR TUBE.

M6956 5. INSTALL HOSE ASSEMBLY P/N 1F17164-502 FROM UPPER FITTING OF COOLING AIR TUBE TO UNION P/N MS21902J4, AND "T" FITTING OF GEARBOX SHUTOFF VALVE P/N 36168-2.

CAUTION - SUPPORT UNION WHEN TIGHTENING HOSE ASSEMBLY TO COOLING AIR TUBE.

M6956 6. SECURE HOSE ASSEMBLIES, USING CLAMPS, BOLTS, AND NUTS.

M6956 7. DISCARD REMOVED TUBE P/N 3884404-1 AND SCRAP LOCALLY.

551 GMS

END JOB V-9080.0 REVISED 04/27/00

Job Instruction Card

COA 6-9237 331 APU OIL LEVEL SIGHT GAUGE PLATE
REV. 12/07/95

V528	62697	V9041.0
ORDER NO.	ENGINE NO.	JOB NO

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

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CCCCCCCC     00    00    AA  AA
CCC          00    00   AA    AA
CCC          00    00   AAAAAAAAAA
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WORK CENTER - 551 STALL

SFOEP CONTACT - B. MISKIMEN

****

X460.

ON COMPLETION OF THIS JIC ENTER "ON" INFORMATION BELOW FOR ENGINE TYPE V AND ACCOMPLISH EMOEVT ON PRTSRV TRANSACTION.

- ENGINE ORDER NUMBER V528

- ENGINE SERIAL NUMBER 62697

****

NOTE - ACCOMPLISH ALL REMOVAL/INSTALLATION REQUEST PER APPLICABLE JOB INSTRUCTION CARDS (JIC).

THE FOLLOWING JIC(S) SHOULD BE ISSUED WITH THIS COA JIC:

1.V0101.0
2.V0101.2

REASON - TO ADD OIL LEVEL GRADUATED PLATE ON TOP OF OIL LEVEL SIGHT GAUGE TO IDENTIFY OIL LEVEL IN 1/2 QUART INCREMENTS FOR APU OPERATING AND APU OFF.

Job Instruction Card

COA 6-9237 331 APU OIL LEVEL SIGHT GAUGE PLATE
REV. 12/07/95

V528 | 62697 | V9041.0
ORDER NO. ENGINE NO. JOB NO

STATUS OF ITEMS START'D BUT NOT SIGNED OFF

CURRENT PARTS AFFECTED

OLD P/N	ACTION	NEW P/N	QTY	DESCRIPTION
	NEW	3F18137-1	1	PLATE-GRADUATED

L977 L 1. CHECK FOR PREVIOUS ACCOMPLISHMENT AND CIRCLE A OR B BELOW.
A. PREVIOUSLY ACCOMPLISHED. NEW P/N PLATE IS INSTALLED. NO FURTHER SIGN OFF IS REQUIRED.
B. NOT ACCOMPLISHED. NEW P/N PLATE IS NOT INSTALLED. PROCEED TO NEXT ITEM.

M 4897 2. REMOVE 8 BOLTS ON OIL LEVEL SIGHT GAUGE AND INSTALL NEW PART NUMBER PLATE USING BOLTS. TORQUE BOLTS 45 - 50 IN/LBS.

551 SRB

END JOB V-9041.0 REVISED 12/07/95

UNITED

Job Instruction Card

GTCP331-200 COVER PAGE, POWER SECTION
REV. 05/08/02

ENGINE S/N	ENGINE NO.	JOB NO.
NV518	61913	V2000.0

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

NOTE - RIGHT SIGN-OFF COLUMN FOR JOB ISSUED.
LEFT SIGN-OFF COLUMN FOR JOB COMPLETED.

1. THE FOLLOWING JOBS ARE SIGNED OFF CORRECTLY OR ACCOUNTED FOR PROPERLY.
2. ALL ITEMS THAT ARE 'X'ED OUT ARE NOT REQD. THIS VISIT.
   - V2010.0 TURBINE GROUP REMOVAL — X460 — 1962
   - V2011.0 COMPRESSOR/COMBUSTOR DISASSEMBLY — X460 — 1962
   - V2020.0 POWER SECTION - CLEANING — X460 — 1962
   - V2041.0 COMPRESSOR/COMBUSTOR ASSEMBLY — X460 — 1962
   - V2042.0 TURBINE GROUP ASSEMBLY — X460 — X460
   - V2043.0 TURBINE GROUP INSTALLATION — X460 — X460
   - V2043.5 TURBINE BEARING REMOVAL & INSTALLATION — X460 — X460

   *49-20-00/IS00 - POWER SECTION INSPECTION.
3. THE FOLLOWING NON-ROUTINE CARDS ARE SIGNED OFF CORRECTLY AND ACCOUNTED FOR. BLANK SPACES INDICATE NO NON-ROUTINES WERE ISSUED.

N/R #	SIGN OFF	N/R #	SIGN OFF	N/R #	SIGN OFF
5649	X460	4612	X460		

(SFOPB)COORDINATOR X460 DATE Apr. 13, 2004

ASSIGNED TO ENGINE ORDER NUMBER V528

W/C 551 EAH

END JOB V-2000.0 REVISED 05/08/02

UNITED

Job Instruction Card

331 49-20-02 TURBINE GROUP REMOVAL
REV. 03/11/99

NV518 | 61913 | V2010.0
MODEL NO. | ENGINE NO. | JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-20-02.

M 7068 1. REMOVE FLOW DIVIDER/DRAIN VALVE.

M 7068 2. REMOVE EXCITER, IGNITOR PLUG AND THERMOCOUPLES. DISCARD GASKETS.

M [illegible] 3. REMOVE INSULATION BLANKETS.

M 7068 4. REMOVE EXHAUST HOUSING AND MUFFLER.

M 7068 5. REMOVE FUEL MANIFOLDS. REMOVE FUEL NOZZLES AND SHROUDS. DISCARD GASKETS.

M [illegible] 6. REMOVE HEATSHIELD AND SCAVENGE PUMP.

M 7068 7. STRETCH TIESHAFT.

M 7068 8. DISASSEMBLE TURBINE BEARING CAPSULE. DISCARD GASKET AND SPRING WASHER. BAG TURBINE BEARING INNER AND OUTER RACE TO PRECLUDE CLEANING.

M 7068 9. REMOVE AND DISASSEMBLE TURBINE GROUP
NOTE - DISCARD USED PISTON SEAL RINGS FROM T1 STATOR AND T1 STATOR SUPPORT.
X460 PLANNER TO ISSUE: JIC V2050.0, V2021.0 AND INSPECTION 60-49-90-05/SP01.

M 7068 10. *IF ENGINE TSLV IS EQUAL TO OR GREATER THAN 3000 HOURS, *OR IT HAS EXPERIENCED M.I.S, DISASSEMBLE TURBINE *SCAVENGE PUMP PER SHOP PROCEDURE 331-49-24-01/SP01.

551 GMS

END JOB V-2010.0 REVISED 03/11/99

1977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

UNITED

Job Instruction Card

331 49-20-01 COMPRESSOR/COMBUSTOR DISASSEMBLY
REV. 11/22/85

MODEL NO	ENGINE NO	JOB NO.
NV518	61913	V2011.0

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH
GTCP331 SHOP PROCEDURE 49-20-01.

M7068 1. REMOVE COMBUSTOR.
M7068 2. REMOVE INLET HOUSING.
M7060 3. DISASSEMBLE FIRST STAGE COMPRESSOR.
M7060 4. DISASSEMBLE SECOND STAGE COMPRESSOR.
M7060 5. DISASSEMBLE COMPRESSOR HOUSING.
M7060 6. DISASSEMBLE INLET HOUSING.
M7060 7. DISASSEMBLE BEARING INLET HOUSING.

*551 LAH

END JOB V-2011.0 REVISED 11/22/85

L977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

GTCP331-200 POWER SECTION - CLEANING
REV. 04/27/01

NV518 61913 V2020.0
CUSTOMER NO. ENGINE NO. JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

1. L977 U _____ UTILITY MECHANIC (U) CLEAN POWER SECTION PARTS PER GN 4-0-3-20 PROCESS 01 (SOLVENT CLEAN), *AND/OR GN 4-0-3-20 PROCESS 2C.

2. U [illegible] UTILITY MECHANIC (U) PLASTIC PELLET BLAST THE THE FOLLOWING PARTS PER GN 4-0-0-6 PROCESS Q-09.

A. COMBUSTION CHAMBER.
B. COMBUSTION CHAMBER CASE.
C. 1ST STAGE TURBINE STATOR SUPPORT.
D. 1ST STAGE TURBINE STATOR ASSEMBLY.
E. 1ST STAGE TURBINE SHROUD.
F. 1ST STAGE TURBINE WHEEL ASSEMBLY.
G. 2ND STAGE TURBINE STATOR ASSEMBLY.
H 2ND STAGE TURBINE STATOR SUPPORT.
I. 2ND STAGE TURBINE WHEEL ASSEMBLY.
J. 3RD STAGE TURBINE STATOR ASSEMBLY.
K. 3RD STAGE TURBINE WHEEL ASSEMBLY.
L. ROTOR SEAL CURVIC COUPLING.
M. HEAT SHIELD.
*N. TIE SHAFT (INSIDE, SPLINED INSERT).
*O. TURBINE SCAVENGE PUMPQUILL SHAFT.

-977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

UNITED

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

GTCP331-200 POWER SECTION - CLEANING
REV. 04/27/01

NV518 61913 V2020.0
CUSTOMER ENGINE NO. JOB NO.

3. U_____ UTILITY MECHANIC (U) HEAVY DUTY CAUSTIC CLEAN - NO PHOSPHORIC ACID THE FOLLOWING PARTS PER GN 4-0-3-20 PROCESS 2A:

A. COMPRESSOR COUPLING STUB-SHAFT.
B. SHIELD-OIL TUBES.
C. FUEL NOZZLE SHROUDS.
D. GEAR SHAFT - (TURBINE PUMP QUILLSHAFT).
E. TURBINE OIL TUBES.
F. OIL JETS AND SPACERS.
G. TURBINE BEARING SUPPORT.
H. CURVIC COUPLING SHAFT - (TURBINE END).
I. T-BOLTS AND BEARING RETAINER.
J. TAIL CONE-SPACERS PLUS BOLTS.
K. ALL METAL CLAMPS.

W/C 551 JAS

END JOB V-2020.0 REVISED 04/27/01

L977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

331 COMPRESSOR/COMBUSTOR ASSEMBLY

REV. 12/30/03

NV518 61913 V2041.0
ORDER NO. ENGINE NO. JOB NO.

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

6712 Rev 1 was not disassembled 6712

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-20-01.

6712 6712
M ~~X~~ 1. INSTALL LABYRINTH SEAL ON COUPLING SHAFT.

M 6712 2. ASSEMBLE BEARING INLET HOUSING.

M 6712 3. ASSEMBLE SHROUD AND INLET HOUSING ASSEMBLY.

M 6712 4. DETERMINE FIRST STAGE COMPRESSOR ZERO FACE CLEARANCE DIMENSION.

RECORD DIMENSION A 0.880

M 6712 5. INSTALL BEARING INLET HOUSING ASSEMBLY.

M 6712 6. DETERMINE SHIM REQUIREMENTS FOR SHROUD AND INLET HOUSING.

0.880 DIMENSION A (FROM ABOVE)

- 0.783 DIMENSION B

- 0.041 INCH

= 0.056 + OR - .001 INCH, REQUIRED SHIMS

****

* 0.056 6712 REQUIRED SHIMS *

* -0.055 ACTUAL SHIMS USED *

* + .041 *

1962 L * = .042 CALCULATED C1 IMPELLER CLEARANCE *

****

M 6712 7. ASSEMBLE COMPRESSOR HOUSING.

1962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

UNITED

Job Instruction Card

331 COMPRESSOR/COMBUSTOR ASSEMBLY

REV. 12/30/03

NV518 61913 V2041.0
ENGINE NO JOB NO

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

M 6712 8. DETERMINE SECOND STAGE COMPRESSOR ZERO FACE CLEARANCE DIMENSION.

RECORD DIMENSION C 1.840

M 6712 9. DETERMINE SHIM REQUIREMENTS FOR INLET HOUSING AND COMPRESSOR HOUSING P/N 3826138-3 BY USING FORMULA BELOW:

6712 1.840 DIMENSION C (FROM ABOVE)

- 1.794 DIMENSION D

- 0.040 INCH

= 0.046 + OR - .001 INCH, REQUIRED SHIMS

****

* *

* 0.046 REQUIRED SHIMS *

* *

* -0.046 ACTUAL SHIMS USED *

* *

* + .040 *

* *

1992 L * = .040 CALCULATED C2 IMPELLER CLEARANCE *

* *

****

M 6712 10. INSTALL COMPRESSOR HOUSING ON MAINTENANCE STAND.

M 6712 11. ASSEMBLE COMPRESSOR AND DIFFUSER ASSEMBLY.

M 6712 12. INSTALL INLET HOUSING ASSEMBLY.

1962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

331 COMPRESSOR/COMBUSTOR ASSEMBLY

REV. 12/30/03

NV518 61913 V2041.0

ORDER NO. ENGINE NO. JOB NO.

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

M 6528 13. INSTALL COMBUSTION CHAMBER AND COMBUSTION CHAMBER CASE.

1908 L -----CONTINUOUS AIRWORTHINESS ITEM -----
CHECK COMBUSTOR INSTALLATION.

551 SRB

END JOB V-2041.0 REVISED 12/30/03

1908 L ALL ITEMS ARE PROPERLY SIGNED OFF.

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

Job Instruction Card

331 49-24-00 TURBINE GROUP ASSEMBLY.
REV. 07/28/97

NV518 61913 V2042.0
ORDER NO. ENGINE NO. JOB NO.

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-24-00.

LSS? LM 7227 1. MARK FIRST, SECOND, AND THIRD STAGE TURBINE STATORS FOR ALIGNMENT DURING INSTALLATION. REFERENCE SHOP PROOCEDURE 49-24-00, PAGE 703, ITEM D, NOTE 1.
*INSTALL NEW REPLACEMENT SEAL RINGS.

M____ 2. MEASURE FOR T1 SHROUD SHIMS, DIMENSIONS D.

0.____ "GAP" DIMENSION E
(AVERAGE OF BOLT HOLE LOCATIONS)
+ 0.025
= _____ DIMENSION D
(+/- 0.001 REQ'D T1 SHROUD SHIMS)

OR
3.847 DIMENSION A
- 3.834 DIMENSION B
= .013 DIMENSION C
0.025
- 0.013 DIMENSION C
= 0.012 DIMENSION D
(+/- 0.001 REQ'D T1 SHROUD SHIMS)

M____ 3. MEASURE FOR T2 STATOR SUPPORT SHIMS.

RECORD DIMENSION F 0.034

CAUTION - MEASURE FROM AREA AROUND BOLT HOLE FLANGE SURFACE.

_____L ALL ITEMS ARE PROPERLY SIGNED OFF.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

M[illegible] 4. ASSEMBLE TURBINE GROUP.

0.012 DIMENSION D (ABOVE + OR - 0.001 INCH)
(ACTUAL T1 SHROUD SHIMS USED)

0.034 DIMENSION F (ABOVE + OR - 0.001 INCH)
(ACTUAL T2 STATOR SUPPORT SHIMS USED)

551 GMS

END JOB V-2042.0 REVISED 07/28/97

[illegible]L ALL ITEMS ARE PROPERLY SIGNED OFF.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331 49-20-02 TURBINE GROUP INSTALLATION
REV. 02/13/03

NV518 | 61913 | V2043.0
ORDER NO. | ENGINE NO. | JOB NO.

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-20-02.

ASSIGNED ENGINER ORDER NUMBER 1528

M 1962 1. MEASURE FOR TURBINE GROUP SHIMS.

*0.101 DIMENSION H

*0.024 DIMENSION G

M [illegible] 2. ASSEMBLE TURBINE GROUP AND COMPONENTS TO DETERMINE SHIM REQUIREMENTS.

[illegible] LM 7227 3. ----- CONTINUOUS AIRWORTHINESS ITEM -----TURBINE TIESHAFT INSTALLATION - CHECK AND VERIFY STRETCH MEASUREMENT.

0.749 DIMENSION C (BEFORE STRETCH)

2.472 DIMENSION A

2.423 DIMENSION B

0.049 STRETCH DIMENSION (LIMIT = 0.047 TO 0.050 INCH)

0.825 DIMENSION C (AFTER STRETCH)

[illegible] L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

331 49-20-02 TURBINE GROUP INSTALLATION
REV. 02/13/03

NV518 61913 V2043.0
ENGINE NO. JOB NO.

STARTED OR ITEMS STARTED BUT NOT SIGNED OFF

M 4. VERIFY TURBINE GROUP SHIM THICKNESS.

3.714 DIMENSION J

-0.101 DIMENSION H (PREVIOUSLY RECORDED)

=3.613

-2.772 TOOLING DIMENSION

=0.841 BUILD DIMENSION (0.840 TO 0.843 INCH)

M6966 5. INSTALL TURBINE BEARING SUPPORT.

0.024 DIMENSION G (PREVIOUSLY RECORDED)
REQ'D. SHIMS (+ OR - 0.002 INCH)

.825 DIMENSION C (AFTER STRETCH)

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

ENGINE NO.	JOB NO.
NV518 61913	V2043.0

M 6956 6. DETERMINE SHIM REQUIRED FOR TURBINE BEARING SUPPORT.

4.753 DIMENSION K

- 3.599 DIMENSION L

= 1.154 DIMENSION M

****

2.297 INCH

- 1.154 DIMENSION M (ABOVE)

= 1.143

- 1.027 DIMENSION N (+ OR - 0.001 INCH)

= .116 THICKNESS OF REQ'D SHIMS

M 6956 7. ASSEMBLE COMPONENTS ONTO COUPLING.

NOTE - USE NEW T-BOLTS FOR ASSEMBLY OF BEARING CAPSULE.

M6956 8. INSTALL TURBINE BEARING SUPPORT.

.825 DIMENSION C (AFTER STRETCH)

L962 L VERIFY SHAFT STRETCH IS WITHIN LIMITS.

M 6956 9. INSTALL QUILLSHAFT AND TURBINE SCAVENGE PUMP.

M 6956 10. INSTALL HEATSHIELD.

L96[illegible] L ALL ITEMS ARE PROPERLY SIGNED OFF.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

M6956 11. INSTALL PRIMARY AND SECONDARY NOZZLE AND MANIFOLD ASSEMBLIES.

L982 L ----- CONTINUOUS AIRWORTHINESS ITEM -----CHECK BOLT AND "B" NUT TORQUE OF PRIMARY AND SECONDARY NOZZLE AND MANIFOLD ASSEMBLIES.

M6956 SAFETY PRIMARY AND SECONDARY NOZZLE ASSEMBLIES.

L983 L ----- CONTINUOUS AIRWORTHINESS ITEM -----CHECK SAFETY OF PRIMARY AND SECONDARY NOZZLE ASSEMBLIES.

M6956 12. INSTALL EXHAUST MUFFLER AND HOUSING.

M6956 13. INSTALL INSULATION BLANKETS.

M6956 14. INSTALL TADPOLE SEAL.

M6956 15. INSTALL EXCITER, IGNITOR PLUG AND THERMOCOUPLES.

M6956 16. INSTALL FLOW DIVIDER AND DRAIN VALVE.

551 GMS

END JOB V-2043.0 REVISED 02/13/03

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

GTCP331-200 COVER PAGE, TURBINE SCAVENGE PUMP ASSY
REV. 04/13/93

SV518	61913	V2005.0
ENGINE NO.	ENGINE NO.	JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

X460

~~1460~~

~~X460~~ X406

~~X460~~ 1977

~~X460~~ X460

NOTE - RIGHT SIGN-OFF COLUMN FOR JOB ISSUED.
LEFT SIGN-OFF COLUMN FOR JOB COMPLETED.

1. THE FOLLOWING JOBS ARE SIGNED OFF CORRECTLY OR ACCOUNTED FOR PROPERLY.
2. ALL ITEMS THAT ARE 'X'ED OUT ARE NOT REQD. THIS VISIT.
   V2050.0 TURBINE SCAVENGE PUMP - DISASSEMBLY
   V2021.0 TURBINE SCAVENGE PUMP - CLEANING
   V2055.0 TURBINE SCAVENGE PUMP - ASSEMBLY
   .....
   49-90-05/IS01 - TURBINE SCAVENGE PUMP INSPECTION
   .....
3. THE FOLLOWING NON-ROUTINE CARDS ARE SIGNED OFF CORRECTLY AND ACCOUNTED FOR. BLANK SPACES INDICATE NO NON-ROUTINES WERE ISSUED.

N/R #	SIGN OFF	N/R #	SIGN OFF	N/R #	SIGN OFF
.....	.....	.....	.....	.....	.....

*(SFOPB)COORDINATOR..... X460 DATE..Mar. 29, 2004.....

ASSIGNED TO ENGINE ORDER NUMBER..V528.....

W/C 551 EAH

END JOB V-2005.0 REVISED 04/13/93

UNITED

Job Instruction Card

331 49-23-49 TURBINE SCAVENGE PUMP - DISASSEMBLY
REV. 02/01/93

SV518	61913	V2050.0
ORDER NO.	ENGINE NO.	JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-24-01/SP01.

M 7068 1. DISASSEMBLE TURRBINE SCAVENGE PUMP TO THE EXTENT NECESSARY TO REPLACE WORN OR DAMAGED PARTS.

551 LAH

END JOB V-2050.0 REVISED 02/01/93

L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

GTCP331-200 TURBINE SCAVENGE PUMP ASSY - CLEANING
REV. 04/27/01

SV518 | 61913 | V2021.0
ENGINE NO. | JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

1R M/A L977

1. CHECK FOR FULL DISASSEMBLY OF TURBINE SCAVENGE PUMP AND STAMP OFF A OR B BELOW.

   U L977 A. TURBINE SCAVENGE PUMP IS FULLY DISASSEMBLED, PROCEED TO STEP 2.

   U ____ B. TURBINE SCAVENGE PUMP IS NOT FULLY DISASSEMBLED, PROCEED TO STEP 3.

2. *U ____ PUMP FULLY DISASSMBLED. UTILITY MECHANIC (U) *SOLVENT WASH TURBINE SCAVENGE PUMP AND PIECE PARTS PER *GN 4-0-3-20 PROCESS 01 (SOLVENT CLEAN), AND/OR *GN 4-0-3-20 PROCESS 2C. IF ADDITIONAL CLEANING IS *NECESSARY, ONLY THE HOUSING AND COVER MAY BE CLEANED *PER GN 4-03-20 PROCESS 2A, (ALKALINE RUST REMOVER).

3. U L977 PUMP ASSEMBLY. UTILITY MECHANIC (U) SOLVENT WASH TURBINE SCAVENGE PUMP ASSEMBLY PER GN 4-0-3-20 PROCESS 01 (SOLVENT CLEAN).

   CAUTION - DO NOT USE ALKALINE RUST REMOVER ON THE SCAVENGE PUMP ASSEMBLY. ALKALINE SOLUTION WILL DAMAGE THE OILITE BUSHING.

551 JAS

END JOB V-2021.0 REVISED 04/27/01

L977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

331 49-23-49 TURBINE SCAVENGE PUMP - ASSEMBLY
REV. 04/15/99

SV518 61913 V2055.0
ENGINE NO. JOB NO.

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-24-01/SP02.

M 6947 1.*ASSURE THAT PUMP HOUSING OIL PASSAGES ARE FREE OF *OBSTRUCTION BY INSERTING AN APPROPRIATE SIZE SAFETY *WIRE THROUGH THE HOLES.

M 6947 2. ASSEMBLE TURBINE SCAVENGE PUMP.

1977 L 3. CHECK FOR FREEDOM OF ROTATION OF SPUR GEAR AND ROTOR SET.

551 JAS

END JOB V-2055.0 REVISED 04/15/99

1977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

GTCP331-200 COVER PAGE, ACCY GEARCASE
REV. 05/08/02

AV518	61913	V3000.0
ENGINE NO.	ENGINE NO.	JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

X460
X460
X466 .. L962
X466 .. L977
X460 .. L977
X466 .. L977
X460 .. L977
X460
X460 .. X460
X460

NOTE - RIGHT SIGN-OFF COLUMN FOR JOB ISSUED.
LEFT SIGN-OFF COLUMN FOR JOB COMPLETED.

1. THE FOLLOWING JOBS ARE SIGNED OFF CORRECTLY OR ACCOUNTED FOR PROPERLY.
2. ALL ITEMS THAT ARE 'X'ED OUT ARE NOT REQD. THIS VISIT.
   V3010.0 ACCY GEARCASE - DISASSEMBLE.
   V3020.0 ACCY GEARCASE - CLEANING.
   V3040.0 ACCY GEARCASE - ASSEMBLE.
   V4010.0 GEN SCAV PUMP - DISASSEMBLY & CLEANING .
   V4040.0 GEN SCAV PUMP - ASSEMBLY. . . .
   . . . . . .
   *49-26-01/IS00 - ACCESSORY GEARCASE INSPECTION.
   . . . . . .
3. THE FOLLOWING NON-ROUTINE CARDS ARE SIGNED OFF CORRECTLY AND ACCOUNTED FOR. BLANK SPACES INDICATE NO NON-ROUTINES WERE ISSUED.

N/R #	SIGN OFF	N/R #	SIGN OFF	N/R #	SIGN OFF
.....	.....	.....	.....	.....	.....

(SFOPB)COORDINATOR. X460 DATE Mar. 24, 2004

ASSIGNED TO ENGINE ORDER NUMBER. V528

W/C 551 JAS

END JOB V-3000.0 REVISED 05/08/02

UNITED

Job Instruction Card

GTCP331-200 ACCY GEARCASE - DISASSEMBLY
REV. 01/09/98

AV518 61913 V3010.0
ENGINE NO. JOB NO

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

M 4897 1. REMOVE EXTERNAL PLUG FROM CENTER OF GEARBOX HOUSING ADJACENT TO THE GENERATOR PAD AND DISCARD *OLD* PART NUMBER PLUG (*WITHOUT* KEENSERT). DISCARD O-RING

M 4897 2. REMOVE DISCHARGE TUBE AND OIL JET FROM AROUND CLUTCH ENSURING REMOVAL OF CLAMP, RETAINED TUBE AND FASTENERS.

M 4897 3. REMOVE RETAINER FROM OIL PRESSURE SUPPLY TUBE TO CARRIER.

M 4897 4. REMOVE BEARING RETAINERS FROM PINION AND GENERATOR GEARS.

M 4897 5. REMOVE CARRIER ASSEMBLY FROM GEARBOX *HOUSING*.

M 4897 6. REMOVE *OIL TUBES* AND DISCARD O-RINGS.

M 4897 7. REMOVE COOLING FAN IDLER GEAR AND REMOVE BEARINGS WITH 294866-5 ADAPTER, 294870-2 PLATE AND 4020C PULLER.

NOTE - THIN GEAR (.250) PART NUMBER MAY BE DIACARDED WITH BEARINGS PRIOR TO DISASSEMBLY IF THE GEARBOX WAS ROUTED FOR REPLACEMENT OF THE IDLER GEAR.

L977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

DETAILS OF ITEMS STARTED BUT NOT SIGNED OFF

1 ESTL L 8. CIRCLE AND ACCOMPLISH A OR B BELOW:
2 WAS ENGINE REVIEWED FOR COOLING FAN IDLER GEAR
3 REPLACEMENT?
4
5 A. YES, CALL FOR EXPOSED AREA INSPECTION.
6
7 (B.) NO, CONTINUE DISASSEMBLY AT SIGN-OFF 10 AND
8 ROUTE DISASSEMBLED GEARBOX FOR CLEANING.
9
10 I 9. PERFORM EXPOSED AREA INSPECTION TO CHECK FOR PRESENCE
11 OF OIL JETS, CONDITION OF GEAR TRAIN AND WEAR IN IDLER
12 GEAR LINER. IF MODULE REQUIRES FURTHER DISASSEMBLY
13 BASED ON CONDITION, OFF-LOG MODULE AND RE-REVIEW.
14
15 NOTE - NO FURTHER DISASSEMBLY REQUIRED IF CONDITION
16 IS OK.
17
18 M 4297 10. REMOVE GENERATOR SCAVENGE PUMP DISCARD O-RINGS
19 AND SEAL.
20
21
22 M 4897 11. REMOVE ALL PLUGS AND FITTINGS FROM EXTERNAL OF
23 GEARBOX. DISCARD O-RINGS.
24
25 M 4897 12. REMOVE CAP AND ADAPTER ASSEMBLY, FILLER AND SIGHT
26 GLASS HOUSING, REFLECTOR, PLACARD AND WINDOW. DISCARD
27 O-RINGS.
28
29 M 4897 13. DISASSEMBLE JETS FROM CARRIER AND REMOVE REMAINING
30 BEARING RETAINERS. DISCARD O-RINGS.
31
32
33 PAGE 2
34
35

L977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

GTCP331-200 ACCY GEARCASE - DISASSEMBLY
REV. 01/09/98

ORDER NO. AV518 | ENGINE NO. 61913 | JOB NO. V3010.0

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

M 4897 14. REMOVE THE FOLLOWING GEARS AND BEARINGS. (USE TOOL CHART).

GEAR	ADAPTER	PLATE	PULLER
OIL PUMP DRIVE	294866-5	294867-3	4020C
GENERATOR IDLER	294866-1	294867-1	4020C
COMPOUND GEAR	294865-2	294865-2	4020C
GENERATOR DRIVE	294866-4/-6	294870-5	4020C
HIGH SPEED PINION	294866-3	294869-1	4020C

M 4897 15. REMOVE OIL TRANSFER TUBES, OIL JETS AND SCAVENGE TUBE. DISCARD O-RINGS.

551 GMS

END JOB V-3010.0 REVISED 01/09/98

L977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

GTCP331-200 ACCY GEARCASE - CLEANING
REV. 04/27/01

AV518	61913	V3020.0
ENGINE NO.		JOB NO

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

1. U 9312 UTILITY MECHANIC (U) CLEAN ACCESSORY GEARCASE PER GN 4-0-3-20 PROCESS 01 (SOLVENT CLEAN), AND/OR GN 4-0-3-20 PROCESS 2C.

551 JAS

END JOB V-3020.0 REVISED 04/27/01

L977
L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

331 49-26-01 ACCESSORY GEARBOX ASSEMBLY

REV. 09/04/97

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

AV518 61913 V3040.0

ENGINE NO. JOB NO

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-26-01.
ASSIGNED TO ENGINE ORDER NUMBER V528

M 4897 1. PREASSEMBLE GEARBOX HOUSING.

M 4897 2. ASSEMBLE BEARINGS ON GEARS.

L977 LM 4897 3. INSTALL GEARS.

L977 LM 4897 4. INSTALL CARRIER.

M 4897 5. INSTALL BEARING RETAINERS.

M 4897 6.*ASSEMBLE AND INSTALL GENERATOR SCAVENGE PUMP.
*

M 4897 7.*CIRCLE AND ACCOMPLISH A OR B BELOW.
*
*WAS ENGINE REVIEWED FOR COOLING FAN IDLER GEAR
*REPLACEMENT?

A. YES, NO FURTHER SIGNOFF REQUIRED.

NOTE - STEPS 1 THROUGH 6 ABOVE REPRESENT ONLY PARTIAL ASSEMBLY OF THE EXPOSED PARTS TO ACCOMPLISH THE COOLING FAN IDLER GEAR CHANGE.

B. NO, CONTINUE WITH ASSEMBLY STEPS.

M 4897 8.*ASSEMBLE AND INSTALL GENERATOR SCAVENGE PUMP.

M 4897 9. INSTALL EXTERNAL PARTS.

L977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

331 49-26-01 ACCESSORY GEARBOX ASSEMBLY
REV: 09/04/97

AV518 | 61913 | V3040.0
ENGINE NO. | JOB NO

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

L977 L 10. FINAL LEAD CHECK.

551 GMS

END JOB V-3040.0 REVISED 09/04/97

L977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

GTCP331-200 GEN SCAV PUMP - DISASSEMBLY AND CLEAN
REV. 11/09/00

AV518	61913	V4010.0
ENGINE MODEL	ENGINE NO.	JOB NO.

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

M 4897 1. DISASSEMBLE GENERATOR SCAVENGE PUMP.
A. DISCARD "HIGH TORQUE" FASTENERS.

2. U U012 UTILITY MECHANIC (U) CLEAN GENERATOR SCAVENGE PUMP PER GN 4-0-3-20 PROCESS 01. (SOLVENT CLEAN)

551 JAS

END JOB V-4010.0 REVISED 11/09/00

PAGE 1

1977
L ALL ITEMS ARE PROPERLY SIGNED OFF.

UNITED

Job Instruction Card

GTCP331-200 GEN SCAVENGE PUMP - ASSEMBLY
REV. 10/20/97

AV518 | 61913 | V4040.0
MODEL NO. | ENGINE NO. | JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 60-49-26-01/SP.

M 4897 1. INSTALL SEAL INTO HOUSING ASSEMBLY.

M 4897 2. INSTALL SPUR GEARSHAFT ASSEMBLIES IN HOUSING ASSEMBLY.

M 4897 3. INSTALL COVER, HOUSING ASSEMBLY AND SECURE WITH SCREWS. TORQUE SCREWS TO 30 INCH-POUNDS.

M 4897 4. INSTALL SPUR GEAR ON SPUR GEARSHAFT AND SECURE WITH WASHER AND NUT. TORQUE NUT TOO 190 INCH-POUNDS.

551 GHS

END JOB V-4040.0 REVISED 10/20/97

4977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

GTCP331-200 COVER PAGE, OIL PUMP
REV. 04/12/93

PV528 62697 V5000.0
PART NO. ENGINE NO. JOB NO.

DETAILS OF ITEMS STARTED BUT NOT SIGNED OFF

NOTE - RIGHT SIGN-OFF COLUMN FOR JOB ISSUED.
LEFT SIGN-OFF COLUMN FOR JOB COMPLETED.

X460

1. THE FOLLOWING JOBS ARE SIGNED OFF CORRECTLY OR ACCOUNTED FOR PROPERLY.
2. ALL ITEMS THAT ARE 'X'ED OUT ARE NOT REQD. THIS VISIT.
   V5010.0 OIL PUMP - DISASSEMBLE.
   V5020.0 OIL PUMP - CLEANING.
   V5040.0 OIL PUMP - ASSEMBLED.
   .....
   49-90-01/IS01 - OIL PUMP INSPECTION.
   .....
3. THE FOLLOWING NON-ROUTINE CARDS ARE SIGNED OFF CORRECTLY AND ACCOUNTED FOR. BLANK SPACES INDICATE NO NON-ROUTINES WERE ISSUED.

N/R #	SIGN OFF	N/R #	SIGN OFF	N/R #	SIGN OFF
.....	.....	.....	.....	.....	.....

*(SFOPB)COORDINATOR..... X460 DATE..Apr. 14, 2004.....

ASSIGNED TO ENGINE ORDER NUMBER..V528...

W/C 551 EAH

END JOB V-5000.0 REVISED 04/12/93

UNITED

Job Instruction Card

GTCP331-200 COVER PAGE, LOAD COMPRESSOR
REV. 05/08/02

FV518	61913	V6000.0
ENGINE CO.	ENGINE NO.	JOB NO.

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

X460

X460

X466 .. X463

X46[illegible] .. X463

X460 .. [illegible]

X460 .. X460

NOTE - RIGHT SIGN-OFF COLUMN FOR JOB ISSUED.
LEFT SIGN-OFF COLUMN FOR JOB COMPLETED.

1. THE FOLLOWING JOBS ARE SIGNED OFF CORRECTLY OR ACCOUNTED FOR PROPERLY.
2. ALL ITEMS THAT ARE 'X'ED OUT ARE NOT REQD. THIS VISIT.
   V6010.0 DRIVEN COMPRESSOR - DISASSEMBLE.
   V6020.0 DRIVEN COMPRESSOR - CLEANING.
   V6040.0 DRIVEN COMPRESSOR - ASSEMBLE.
   .....
   *49-25-00/IS00 - DRIVEN COMPRESSOR INSPECTION.
   .....
3. THE FOLLOWING NON-ROUTINE CARDS ARE SIGNED OFF CORRECTLY AND ACCOUNTED FOR. BLANK SPACES INDICATE NO NON-ROUTINES WERE ISSUED.

N/R #	SIGN OFF	N/R #	SIGN OFF	N/R #	SIGN OFF
.....	.....	.....	.....	.....	.....

(SFOPB)COORDINATOR. X460 DATE Apr. 14 2004

ASSIGNED TO ENGINE ORDER NUMBER. V528

W/C 551 EAH

END JOB V-6000.0 REVISED 05/08/02

PAGE 1

X460 X460

V6101.0 IMPELLER-LOAD COMPRESSOR

UNITED

Job Instruction Card

GTCP331-200 DRIVEN COMPRESSOR - DISASSEMBLE
REV. 04/02/93

ENGINE NO.	JOB NO.
FV518 61913	V6010.0

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331
SHOP PROCEDURE 49-25-01/SP02.

M 6947 1. REMOVE DRIVEN COMPRESSOR COMPONENTS.
M 6947 2. REMOVE IGV ACTUATOR.
M 6947 3. REMOVE IGV MOUNT AND BELLCRANK.
M 6947 4. REMOVE INLET HOUSING AND IGV ASSEMBLY.
M 6947 5. REMOVE INLET BEARING HOUSING ASSEMBLY.
M 6947 6. REMOVE BACKSHROUD.
M 6947 7. REMOVE SEAL CARRIER.
M 6947 8. DISASSEMBLE ROTATING GROUP.

W/C 551 EAH

END JOB V-6010.0 REVISED 04/02/93

L977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

GTCP331-200 DRIVEN COMPRESSOR - CLEANING
REV. 04/27/01

ORDER NO.	ENGINE NO.	JOB NO.
FV518	61913	V6020.0

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

1. *U_____ UTILITY MECHANIC (U) CLEAN LOAD COMPRESSOR
*PARTS PER GN 4-0-3-20 PROCESS 01 (SOLVENT CLEAN),
*AND/OR GN 4-0-3-20 PROCESS 2C.

NOTE - DO NOT CLEAN IGV ASSEMBLY. NO CLEANING PERMITTED UNLESS DISASSEMBLED.

551 JAS

END JOB V-6020.0 REVISED 04/27/01

L977

_____L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

GTCP331-200 DRIVEN COMPRESSOR - ASSEMBLY
REV. 10/31/02

FV518 61913 V6040.0
ORDER NO. ENGINE NO. JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-25-01.
ASSIGNED TO ENGINE ORDER NUMBER V528

M 6947 1. ZERO FACE TIP CLEARANCE CHECK AND ASSEMBLE ROTATING GROUP.

.012 RECORD TIP CLEARANCE

M 6947 2. STRETCH SHAFT.

.252 DIMENSION A

- .240 DIMENSION B

= .012 SHAFT STRECH (0.011 - 0.012)

L977 L ----- CONTINUOUS AIRWORTHINESS ITEM -----LOAD COMPRESSER TIESHAFT INSTALLATION - CHECK AND VERIFY STRETCH HEASUREMENT.

M 6947 3. CHECK ROTATING GROUP RUNOUT.
RECORD COMPRESSOR ROTOR TIP RUNOUT.

RUNOUT .001 (0.003 INCH MAX)

M 6947 4. INSTALL SEAL IN INLET HOUSING.

M 6947 5. ASSEMBLE BEARING AND INLET BEARING HOUSING. MARK WHICH BEARING INSTALLED.

X A. CONFIGURATION "A" TIMKEN BEARING.

M 6947 6. INSTALL IGV CONTROL ROD.

M 6947 7. INSTALL IGV TO SCROLL HOUSING AND INLET HOUSING.

M 6947 8. INSTALL IGV MOUNT AND BELLCRANK.

M 6947 9. INSTALL IGV ACTUATOR AND COMPONENTS

M 6947 10. ADJUST INLET GUIDE VANES.

L977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

GTCP331-200 DRIVEN COMPRESSOR - ASSEMBLY
REV. 10/31/02

FV518 61913 V6040.0
ENGINE S/N. JOB NO.

STEPS OF WORK STARTED BUT NOT SIGNED OFF

1	97? L	----- CONTINUOUS AIRWORTHINESS ITEM -----IGV SYSTEM
2		INSTALLATION - CHECK RIGGING OF LOAD COMPRESSOR IGV'S,
3		IGV ASSEMBLY, AND IGV ACTUATOR FOR ITEMS 6-10.
4		DUPLICATE SIGN-OFF ON JOB V1040.0
5	LM 11.	DETERMINE SHIM THICKNESS REQUIREMENTS BETWEEN
6		COMPRESSOR ROTOR AND SCROLL HOUSING.
7		
8		.012 DIMENSION A
9		
10		0.100 TRIAL SHIM THICKNESS
11		
12		+ .021 DIMENSION B (0.033 - DIM. A = DIM. B)
13		
14		= .121
15		
16		+1.388 DIMENSION 3A
17		
18		=1.509
19		
20		-1.462 DIMENSION 3B
21		
22		= .047 REQUIRED SHIM THICKNESS
23		
24	M 70 12.	INSTALL ROTATING GROUP.
25		VERIFY AND RECORD TIP CLEARANCE (0.033 +/- .001):
26		.033 RECORD TIP CLEARANCE
27		
28	97? LM 6947 13.	*RECORD AVG EFFECTIVE AREA PRINTED ON PART N/A .
29		*(LIMIT 0.2407-0.2499)
30		
31		
32		
33		
34		
35		

97? L ALL ITEMS ARE PROPERLY SIGNED OFF.

GTCP331-200 DRIVEN COMPRESSOR - ASSEMBLY
REV. 10/31/02

FV518	61913	V6040.0
ENGINE NO.		JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

M 6947 14. DETERMINE DIFFUSER SPACING SHIM REQUIREMENTS.

1.324 DIMENSION 4C

- 1.288 DIMENSION 4D

= .036 REQUIRED SHIM THICKNESS (+/- 0.001)

M 6947 15. DETERMINE CLEARANCE BETWEEN BEARING CARRIER AND BACKSHROUD.

.908 DIMENSION 5A

- .211 DIMENSION 5B

= .697

- 0.640 INCH

= .057 REQUIRED SHIM THICKNESS (+/- 0.005)

M 6947 16. ASSEMBLE DRIVEN COMPRESSOR. (SEE FIGURE 716)
M 6947 17. ASSEMBLE DRIVEN COMPRESSOR. (SEE FIGURE 717)
M 6947 18. ASSEMBLE DRIVEN COMPRESSOR. (SEE FIGURE 718)
M 6947 19. INSTALL INLET TEMPERATURE SENSOR (CIT PROBE).

W/C 551 GMS

END JOB V-6040.0 REVISED 10/31/02

L ALL ITEMS ARE PROPERLY SIGNED OFF.

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

7227
item 2 no Blending Required

L977 J.C. Stokes 84444

GTCP331 Job Instruction Card
REV. 04/12/95 IMPELLER - LOAD COMPRESSOR

EV518 | 01913 | V6101.0
ORDER NO | ENGINE NO. | JOB NO

M 7227 1. BALANCE PER SHOP PROCEDURE 49-25-19/SP01. DATE 4-5-04

FINAL UNBALANCE - GRAMS OR OZ-INCH | ANGLE

H PLANE - 3.11 moz | 215°

J PLANE - 882. moz | 164°

NOTE - LIST P/N AND S/N BELOW.

IMPELLER P/N 3822060-3

7227
IMPELLER S/N 150U732

M X 2. BLEND PER SHOP PROCEDURE 49-25-19/SP01.

L 3. LEAD VERIFY BLENDING PER 49-25-19/SP01.

L 4. LEAD FINAL CHECK.

NOTE - PUT THIS BALANCE JIC WITH PART IN CONTAINER AFTER COMPLETION. THIS JIC MUST BE ACCOUNTED FOR AND TURNED IN TO PRODUCTION CONTROL CENTER WHEN PART IS USED FOR BUILD.

NOTE - THIS JIC MUST BE ACCOUNTED FOR AND TURNED IN TO PRODUCTION CONTROL CENTER WHEN PART IS ON-LOGGED.

551 EAH

END JOB V-6101.0 REVISED 04/12/95

L ALL ITEMS ARE PROPERLY SIGNED OFF.

Inde balancing

plane 1	plane 2
882.	3.11
164	215
in tol	in tol

Job Instruction Card

GTCP331-200 COVER PAGE, IGV ASSEMBLY
REV. 05/08/02

IV966 | 61692 | V6005.0
ORDER NO. ENGINE NO. JOB NO.

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

X460

X460

X460

NOTE - RIGHT SIGN-OFF COLUMN FOR JOB ISSUED.
LEFT SIGN-OFF COLUMN FOR JOB COMPLETED.

1. THE FOLLOWING JOBS ARE SIGNED OFF CORRECTLY OR ACCOUNTED FOR PROPERLY.
2. ALL ITEMS THAT ARE 'X'ED OUT ARE NOT REQD. THIS VISIT.
   V6015.0 IGV ASSEMBLY - DISASSEMBLE
   V6025.0 IGV ASSEMBLY - CLEANING
   V6045.0 IGV ASSEMBLY - ASSEMBLE
   .....
   *49-25-02/IS00 - IGV ASSEMBLY INSPECTION.
   .....
3. THE FOLLOWING NON-ROUTINE CARDS ARE SIGNED OFF CORRECTLY AND ACCOUNTED FOR. BLANK SPACES INDICATE NO NON-ROUTINES WERE ISSUED.

N/R #	SIGN OFF	N/R #	SIGN OFF	N/R #	SIGN OFF
.....	.....	.....	.....	.....	.....

(SFOPB)COORDINATOR..X460.. DATE..Apr. 14, 2004..

ASSIGNED TO ENGINE ORDER NUMBER..1528....

W/C 551 JAS

END JOB V-6005.0 REVISED 05/08/02

UNITED

Job Instruction Card

GTCP331-200 COVER PAGE, STARTER CLUTCH ASSEMBLY
REV. 02/18/04

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

LV507 (ENGINE NO.) 60189 (ENGINE NO.) V7000.0 (JOB NO.)

NOTE - RIGHT SIGN-OFF COLUMN FOR JOB ISSUED.
LEFT SIGN-OFF COLUMN FOR JOB COMPLETED.

1. THE FOLLOWING JOBS ARE SIGNED OFF CORRECTLY OR ACCOUNTED FOR PROPERLY.
2. ALL ITEMS THAT ARE 'X'ED OUT ARE NOT REQD. THIS VISIT.
   V7010.0 STARTER CLUTCH - DISASSEMBLY/CLEANING
   V7040.0 STARTER CLUTCH - ASSEMBLY.

*60-49-26-01-00/ICS LRU CLUTCH INSPECTION

3. THE FOLLOWING NON-ROUTINE CARDS ARE SIGNED OFF CORRECTLY AND ACCOUNTED FOR. BLANK SPACES INDICATE NO NON-ROUTINES WERE ISSUED.

N/R #	SIGN OFF	N/R #	SIGN OFF	N/R #	SIGN OFF

(SFOPB)COORDINATOR. X460 DATE. Feb. 25, 2004

ASSIGNED TO ENGINE ORDER NUMBER. V528

W/C 551 JAS

END JOB V-7000.0 REVISED 02/18/04

UNITED

Job Instruction Card

GTCP331-200 STARTER CLUTCH - DISASSEMBLY/CLEANING

REV. 05/06/96

LV507 | 60189 | V7010.0

ORDER NO. | ENGINE NO. | JOB NO.

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

M 4897 1. REMOVE LRU CLUTCH ADAPTER TOOL.

M 4897 2. REMOVE ASSEMBLED STARTER GEAR FROM ADAPTER.

M 4897 3. REMOVE WASHERS AND WAVE SPRINGS FROM ADAPTER.

M 4897 4. REMOVE RETAINING RING AND WASHERS FROM ASSEMBLED STARTER GEAR. REMOVE SPLINE SHAFT AND PLUG.

M 4897 5. REMOVE BEARINGS FROM SPLINE SHAFT AND STARTER GEAR.

M 4897 6. DISCARD ALL BEARINGS EXCEPT P/N 3860160-1. BAG REMAINING BEARING FOR RECOVERY.

7.*U U012, UTILITY MECHANIC (U) CLEAN DISASSEMBLED PARTS PER GN 4-0-3-20 PROCESS 01. (SOLVENT CLEAN)

M 4897 8. ROUTE PARTS TO INSPECTION.

W/C 551 SRB

END JOB V-7010.0 REVISED 05/06/96

L302 L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

GTCP331-200 STARTER CLUTCH - ASSEMBLY
REV. 09/27/93

LV507 | 60189 | V7040.0
ORDER NO. | ENGINE NO. | JOB NO.

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-27-01/SP01.

*ASSIGNED TO ENGINE ORDER NUMBER 1528

M 1. ASSEMBLE STARTER GEAR ASSEMBLY.

2.9850 - A2 (REFERENCE DIMENSION)
-2.361 - A3
= .624 - (SUBTOTAL)
- 0.6180 - A1 (REFERENCE DIMENSION)
= .006 - (SUBTOTAL)
+ .208 - B
= .214 - (SUBTOTAL)
- 0.0780 - (SPRING HEIGHT)
= .136 - (SUBTOTAL)
- 0.1000 - (NOMINAL)
= .036 - SHIM THICKNESS REQUIRED.
.035 - ACTUAL SHIMS USED, + OR - 0.001 INCH.

L977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

GTCP331-200 STARTER CLUTCH - ASSEMBLY
REV. 09/27/93

LV507 (CREDIT NO.) 60189 (ENGINE NO.) V7040,0 (JOB NO.)

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

M7194 2. INSTALL SPLINE SHAFT AND STARTER CLUTCH.

.263 - 1A

- .131 - 1B

= .132 - (SUBTOTAL)

- .062 - 1C

= .07 - (SUBTOTAL)

- 0.0455

= .0245 - SHIM THICKNESS REQUIRED.

.024 - ACTUAL SHIMS USED, + OR - 0.0025 INCH.

M7194 3. PACKAGE LRU CLUTCH ASSEMBLY.

W/C 551 EAH

END JOB V-7040.0 REVISED 09/27/93

L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

GTCP331-200 COVER PAGE ENGINE - BALANCE

REV. 04/01/96

ORDER NO	ENGINE NO.	JOB NO
NV518	61913	V8000.0

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

NOTE - LEFT SIGN-OFF COLUMN FOR JOB COMPLETED.

1. THE FOLLOWING JOBS ARE SIGNED OFF CORRECTLY OR ACCOUNTED FOR PROPERLY.
2. ALL ITEMS THAT ARE 'X'ED OUT ARE NOT REQD. THIS VISIT.

X460	V2101.0 IMPELLER - 1ST STAGE COMPRESSOR.
X460	V2102.0 IMPELLER - 2ND STAGE COMPRESSOR.
X460	V2103.0 WHEEL ASSEMBLY-1ST STAGE TURBINE.
X460	V2104.0 WHEEL ASSEMBLY-2ND STAGE TURBINE.
X460	V2105.0 WHEEL ASSEMBLY-3RD STGE TURBINE.
	V2106.0 CURVIC COUPLING
	V3101.0 GEAR - MATCHED SET - SPUR.
X460	*V3102.0 ROTOR-COOLING FAN
	V6101.0 IMPELLER - LOAD COMPRESSOR
	.....
	.....

3. THE FOLLOWING NON-ROUTINE CARDS ARE SIGNED OFF CORRECTLY AND ACCOUNTED FOR. BLANK SPACES INDICATE NO NON-ROUTINES WERE ISSUED.

N/R #	SIGN OFF	N/R #	SIGN OFF	N/R #	SIGN OFF
.....	.....	.....	.....	.....	.....

(SFOPB)COORDINATOR..X460.. DATE Apr. 14, 2004

ASSIGNED TO ENGINE ORDER NUMBER. V528....

W/C 551 SRB

END JOB V-8000.0 REVISED 04/01/96

UNITED

Job Instruction Card

GTCP331 IMPELLER - 2ND STAGE COMPRESSOR
REV. 02/01/01

ORDER NO.	ENGINE NO.	JOB NO.
NV518	101913	V2102.0

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

M 7227 1. BALANCE PER SHOP PROCEDURE 49-22-13/SP01.

DATE 3-7-04

FINAL UNBALANCE - GRAMS OR OZ-INCH — ANGLE

* J PLANE - .11 max oz — 164°

* H PLANE - 5.12 max oz — 30°

NOTE - LIST P/N AND S/N BELOW.

2ND STAGE IMPELLER P/N 3822068-1

2ND STAGE IMPELLER S/N 05013267

L977 M 7227 2. BLEND PER SHOP PROCEDURE 49-22-13/SP01.

L 3. LEAD VERIFY BLENDING PER 49-22-13/SP01.

L 4. LEAD FINAL CHECK.

NOTE - PUT THIS BALANCE JIC WITH PART IN CONTAINER AFTER COMPLETION. THIS JIC MUST BE ACCOUNTED FOR AND TURNED IN TO PRODUCTION CONTROL CENTER WHEN PART IS ON-LOGGED.

EDITED NUMBER 1 TMA/6014L JAS/02-01-01
551 JAS

END JOB V-2102.0 REVISED 02/01/01

L ALL ITEMS ARE PROPERLY SIGNED OFF.

index balancing

plane 1	plane 2
5.12	4.11
30	164
in tol	in tol

Job Instruction Card

GTCP331 WHEEL ASSEMBLY-1ST STAGE TURBINE
REV. 12/07/95

NV518 | 601963 | V2103.0
ORDER NO. ENGINE NO. JOB NO.

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

7227
Item 4 no Blending Required

M 7227 1. INSTALL BLADES AND TABLOCKS PER SHOP PROCEDURE 49-24-03/SP00.

M [illegible] 2.*BALANCE PER SHOP PROCEDURE 49-24-03/SP01. DATE 4-6-04

FINAL UNBALANCE - GRAMS OR OZ-INCH ANGLE

A PLANE - 13.7 oz 273°

NOTE - LIST P/N AND S/N BELOW.

1ST STAGE DISK P/N 3840019-1

1ST STAGE DISK S/N 0235703173

BLADE SET P/N None

L 3. ----- CONTINUOUS AIRWORTHINESS ITEM -----T1 TURBINE BLADE INSTALLATION - CHECK TABLOCK INSTALLATION PER SHOP PROCEDURE 49-24-03/SP00.

M X 4.*BLEND PER SHOP PROCEDURE 49-24-03/SP01.

L 5. LEAD VERIFY BLENDING OF DISK PER 49-24-03/SP01.

L 6. LEAD FINAL CHECK.

NOTE - PUT THIS BALANCE JIC WITH PART IN CONTAINER AFTER COMPLETION. THIS JIC MUST BE ACCOUNTED FOR AND TURNED IN TO PRODUCTION CONTROL CENTER WHEN PART IS ON-LOGGED.

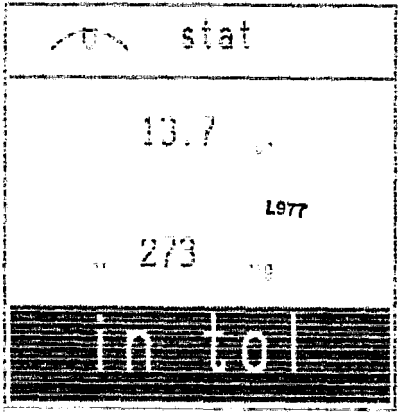
551 SRB

END JOB V-2103.0 REVISED 12/07/95

L ALL ITEMS ARE PROPERLY SIGNED OFF.

UNITED

Index balancing



Job Instruction Card

GTCP331 WHEEL ASSEMBLY-2ND STAGE TURBINE
REV. 12/07/95

NV518 | 61913 | V2104.0
ORDER NO. ENGINE NO. JOB NO.

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

H 7227 1. INSTALL BLADES AND TABLOCKS PER SHOP PROCEDURE 49-24-03/SP00.

H 7227 2.*BALANCE PER SHOP PROCEDURE 49-24-07/SP01.

DATE 3/16/04

FINAL UNBALANCE - GRAMS OR OZ-INCH ANGLE

A PLANE - 8.04 +0Z 222°

NOTE - LIST P/N AND S/N BELOW.

2ND STAGE DISK P/N 3840072/

2ND STAGE DISK S/N 0050 00946

BLADE SET P/N CRMP

L 3. ----- CONTINUOUS AIRWORTHINESS ITEM -----T2 TURBINE BLADE INSTALLATION - CHECK TABLOCK INSTALLATION PER SHOP PROCEDURE 49-24-03/SP00.

7227
Item 4 to Blending Required

H 4.*BLEND PER SHOP PROCEDURE 49-24-07/SP01.

L 5. LEAD VERIFY BLENDING OF DISK PER 49-24-07/SP01.

L 6. LEAD FINAL CHECK.

NOTE - PUT THIS BALANCE JIC WITH PART IN CONTAINER AFTER COMPLETION. THIS JIC MUST BE ACCOUNTED FOR AND TURNED IN TO PRODUCTION CONTROL CENTER WHEN PART IS ON-LOGGED.

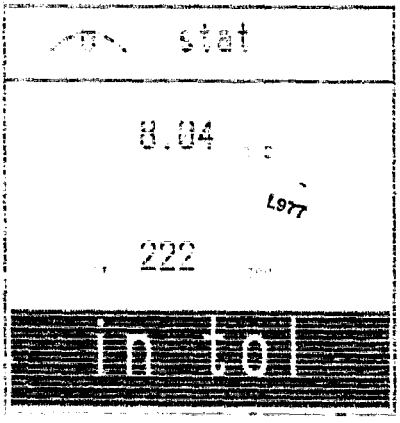
551 SRB

END JOB V-2104.0 REVISED 12/07/95

L ALL ITEMS ARE PROPERLY SIGNED OFF.

UNITED

Index balancing



Job Instruction Card

GTCP331 WHEEL ASSEMBLY-3RD STAGE TURBINE
REV. 05/23/94

ORDER NO.	ENGINE NO.	JOB NO.
NV518	61983	V2105.0

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

M 7227 1. BALANCE PER SHOP PROCEDURE 49-24-09/SP01.

DATE 3-28-04

FINAL UNBALANCE - GRAMS OR OZ-INCH ANGLE

A PLANE - 7.46 max 87°

NOTE - LIST P/N AND S/N BELOW.

3RD STAGE DISK P/N 3840022-3

3RD STAGE DISK S/N 1345 7043

BLADE SET P/N NONE

M 7227 2. BLEND PER SHOP PROCEDURE 49-24-09/SP01.

L 3. LEAD VERIFY BLENDING PER 49-24-09/SP01.

L 4. LEAD FINAL CHECK.

NOTE - PUT THIS BALANCE JIC WITH PART IN CONTAINER AFTER COMPLETION. THIS JIC MUST BE ACCOUNTED FOR AND TURNED IN TO PRODUCTION CONTROL CENTER WHEN PART IS ON-LOGGED.

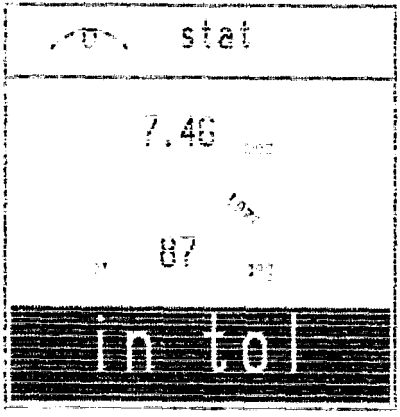
551 EAH

END JOB V-2105.0 REVISED 05/23/94

L ALL ITEMS ARE PROPERLY SIGNED OFF.

UNITED

index balancing



UNITED AIRLINES - MASTER ICS/BOM

Effectivity 331-200ER APU Engine Manual - Inspection and Condition Sheet
"V" EXTERNALS ALL PARTS CONTAINED WITHIN ARE NON HAZMAT
60-49-10-01-02 ICS

Origination Date 3/23/2004

EON V528 ESN 62697 VADE # CUSTOMER UAL

DISPOSITION CODES:

E =	PART MEETS DETAIL PART EID REQUIREMENTS (ZERO TIME SINCE DETAIL PART INSPECTION)
A =	EXPOSED AREA OF PART MEETS VISUAL REQUIREMENTS OF APPROPRIATE EID (CONTINUED TIME SINCE DETAIL PARTS INSPECTION)
C =	PART ROUTED OR CORRECTIVE ACTION TAKEN
ATA# ____ = S/L - SEQ	EID NUMBER [49 precedes numbers shown (49) 31-XX] SECTION / LIST - SEQUENCE NUMBER
EPM ____ = FUNC #	STAMP TO INDICATE PART OFF-LOG FROM MODULE FUNCTION NUMBER

INSPECTION NOTES:
(STAMP OFF APPROPRIATE DISPOSITION CODE. MORE THAN ONE CODE MAY BE STAMPED.)
(INDICATE CONDITION OF UNSERVICEABLE PARTS REGARDLESS OF CONDITION.)
(TO CLEAR PARTS NOT EXPOSED DRAW A LINE THROUGH THE COMPLETE ENTRY AND STAMP IN LEFT MARGIN.)
(IF PART IS ROUTED ON AN R & R TAG IT IS MANDATORY TO STAMP THE APPLICABLE "E" "A" OR "C" BLOCK AND WRITE R & R IN THE "C" BLOCK THEN COMPLETE THE APPROPRIATE COMPUTER TRANSACTION.)
(ALL PARTS NEEDING REPAIR WILL HAVE AN IDENTIFICATION TAG WITH PART NUMBER, SERIAL NUMBER (IF APPLICABLE) AND THE QUANTITY, ATTACHED TO THE PART.)
(PARTS THAT DO NOT HAVE SPECIFIC EID'S WRITTEN FOR THEM MUST BE VISUALLY INSPECTED FOR GENERAL CONDITION PER 331-500 BOOK "0" 20-49-00-00, INTRODUCTION, SECTION 4, PARA A, STATEMENT 4.

MODULE INSPECTION GUIDE

(1) Module seperated from adjoining modules, inspected and found serviceable per EID 60-49-21-00-00 [ZERO (TSMI) No parts removed from module. No additional sign-off required.

(2) Module partially or completely disassembled. Removed parts and / or exposed areas inspected per appropriate EID (ZERO TSDPI).

Control Date: 20040126

(V) module I & C Sheet page 2 OF 11 **Revision Date** 4/5/2004 **Name** [redacted]

APU S/N	62697	TSLV	7556	EON	V528	CAZ SHIP TO DATE	CAZ RET DATE
Total Time	7556	CSLV	8029	P.O.	S306948		
Total Cycles	8029			Date Rcvd.	03/17/04		

Inspection Use Only										Stores			
E	A	C	OFF-LOG FUNC #	COND/ROUTING	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
		1474A	EPM N	DIS	MODULE POWER SECTION	3801003-8	265-9102	20-00-00 20-000	1	1			
		1474A	EPM F	DIS	MODULE - DRIVEN COMPRESSOR	380400-11	265-9103	25-00-00 18-000	1	1			
			EPM A	DIS	MODULE GEARBOX	3862180-21 - 400u	265-9104	26-01-00 01-000	1	1			
			EPM C 5650	Leaks	ASSEMBLY COOLING FAN	3616959 - 6 - 600u	265-9105	52-01-00 03-000	1	1	1		
		1474A	S 5778	DIS	ASSEMBLY - PUMP TURB SCAVENGE	3880160-3	265-0142	90-05-01 55-010	1	1			
		1474A	L	DIS	ASSEMBLY - LRU CLUTCH	3612844-1	265-3153	26-07-00 05-010	1	1			
			EPM I 988	DIS	ASSEMBLY - IGV	3810231-21	265-3012	25-02-00 25-000	1	1			
			P 5724	DIS	ASSEMBLY LUBE OIL PUMP	3880190-10	265-3173	90-01-01 41-000	1	1			
					BRACKETS			10-01-00 331 IPC					
					TUBING			10-01-00 331 IPC					
					HOSES			10-01-00 331 IPC					
					GENERATOR	MR24213	661-9000	10-01-00 331 IPC	1				

APU S/N	62697	EON	V528
		P.O.	S306948

CAZ SHIP TO DATE | CAZ RET DATE

Inspection Use Only					Hardware Info					Stores			
E	A	C	OFF-LOG FUNC #	COND/ROUTING	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
			5749		CLAMP	BACC10GY 400	651-1454	10-00-02 50-070	1				
			5749		CLAMP	E38C37	642-1233	10-00-02 50-070	1				
			5749		CLAMP	234-517 -9006	N/S	10-00-02 50-070	1				
			5777		CLAMP	234-517 -9059	N/S	10-00-02 50-590	1				
			5775		CLAMP	234-517 -9500	285-0440	10-00-02 50-070	1				
			5775		CLAMP	24540-500	285-0440	10-00-02 50-070	1				
			5776		CLAMP	34J34-3 -0346-1	265-0343	10-00-02 50-580	1				
			5776		CLAMP	234-517 -9101	265-0343	10-00-02 50-580	1				
			2280		PLENUM LWR	3810214-5	265-0588	21-01-00 10-275	1				
			2279		PLENUM UPPR	3810213-8	265-0587	21-02-00 10-270	1				
			5737		SCREEN INLET	3615139-1	265-3361	21-03-00	2				
			2241	DO NOT PROCURE NEW. REPLACE WITH 265-3361	SCREEN UPPER	3810198-5	265-0586	21-03-00	1				
			5660	DO NOT PROCURE NEW. REPLACE WITH 265-3361	SCREEN LOWER	3810198-3	265-3095	21-03-00	1				
			5758		COVER MONPOLE	3876061-1	265-0614	21-04-00 50-260	2				
			5753		COVER MONPOLE	3876063-1	265-0596	21-04-00 50-140	2				
			5761		COVER ASSY	3810216-2	N/S	21-06-00 50-300	1				

APU S/N	62697	EON	V528
		P.O.	S306948

CAZ SHIP TO DATE | CAZ RET DATE

Inspection Use Only					Hardware Info					Stores			
E	A	C	OFF-LOG FUNC #	COND/ROUTING	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
1474A			5683		SHAFT QUILL	3868000-1	265-0290	26-22-00 18-105	1				
			5683		SHAFT QUILL	3868001-1	265-0507	26-22-00 11-200	1				
			2235		ADAPTER	3862284-6	265-3079	27-03-00 50-010	1				
			14501		TUBE OIL COOLER LONG	1F17107-1	265-0526	27-11-00 50-610	1				
1474A			14502		TUBE OIL COOLER SHORT	1F17108-1	265-0527	27-11-00 50-620	1				
			2266		BRACKET OIL COOLER	3880393-3	265-3165	52-15-00 01-310	1				
			2238		DUCT TEE	3884238-2	265-0610	53-00-01 50-030	1				
1474A			5748		DUCT SURGE	3884391-2	265-0668	53-00-01 50-060	1				
1474A			2249		DUCT ELBOW	3884211-1	265-0327	53-00-01 50-040	1				

NON EID PARTS BILL OF MATERIAL PARTS ONLY

331-200ER "V" MODULE

EFF 331-200ER

APU S/N	62697	EON	V528
		P.O.	S306948

CAZ SHIP TO DATE | CAZ RET DATE

Hardware information							Stores Use			
COMMENT	IPC LOCATION	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
	49-27-00A-000A 186	ADAPTER	3611372-1	634-5306		1				
	49-27-00A-000B 100	SPACER T-DUCT	3614673-1	265-3380		1				
	49-51-00-000K-100B	DUCT	3617394-1	N/S		1				
	49-51-00 -000K 100A 49-51-00 -001J 035	VALVE BODY	3617459-1	645-3645		1				
	49-00A-000C-015	SHIM COMP HSG	3826146-1	265-0467		1				
	49-51-00 -000K 070 49-51-00 -001J 032	DUCT FAN INLET	3862202-2	265-0445		1				
	49-27-00A-000C 050 49-61-00 -001 015	COVER	3876063-1	265-0596		1				
	49-90-00A-000A-160	HOUSING	3880212-2	N/S		1				
	49-10-00A-000H-470	RETAINER HOSE	3882437-1	N/S		1				
	49-10-00A-000Q-251	SUPPORT	3882704-1	N/S		1				
	49-51-00-000K-030	DUCT FAN DISCH	3882721-3	265-3029		1				
	49-53-00-001-012	STRUT SRGE VLV	3884233-1	N/S		1				
	49-53-00-001-013	STRUT SRGE VLV	3884234-1	N/S		1				
	49-53-00-001-014	STRUT SRGE VLV	3884235-1	N/S		1				
	49-61-00-001-17	PERI SEAL	460-125	N/S		2				

APU S/N	62697	EON	V528
		P.O.	S306948

CAZ SHIP TO DATE | CAZ RET DATE

Hardware Information							Stores Use			
COMMENT	IPC LOCATION	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
	49-10-00A-000A-015	HARNESS	9F15098-504	563-4050		1				
	49-24-00A-000G-235	RING SEAL	AIR22387	265-0225		1				
	49-27-00A-000D-010	PLATE I D	S9017C24P2	265-0637		1				
	49-25-00A-000P-040	SHAFT QUILL	3868001-1	265-0507		1				
	49-25-00A-000P-060	FITTING OIL XFER	3880123-2	265-0304		1				
	49-25-00A-000P-080	TUBE OIL	3880122-1	265-0303		4				
	49-25-00A-000P-100	FITTING VENT	3880124-1	265-0305		1				
	49-25-00A-000P-110	FITTING PRESS	3880292-1	265-0532		1				
	49-27-00A-000E-150	FITTING SPECIAL	3880164-2	N/S		1				
	49-10-00A-000E-480	BRACKET L/H	1F17165-501	265-3131	10-01-00	1				
	49-10-00A-000E-490	BRACKET R/H	1F17165-502	265-3127	10-01-00	1				
	49-10-00A-000H-330 49-16-01-001J-063	TUBE MID BRG	3614747-1	265-3266	10-01-00	1				
	49-10-00A-000Q-090 49-16-01-001J-060	TUBE	351N1101-13	265-3248	10-01-00	1				
	49-10-00A-000Q-220 49-16-01-001J-055	TUBE	351N1101-14	265-3247	10-01-00	1				
	49-10-00A-000E-450	TUBE COOLING	1F17163-501	265-3128	10-01-00	1				
	49-10-00A-000E-470	HOSE	1F17164-502	265-3130	10-01-00	1				
	49-10-00A-000E-181	TUBE PDC 2	3611354-1	265-3111	10-01-00	1				
	49-10-00A-000F-191 49-10-00A-000G-261	TUBE BUFFER AIR	3614788-1	265-3215	10-01-00	1				
	49-10-00A-000G-270	TUBE MID BRG	3614789-1	265-3216	10-01-00	1				

APU S/N	62697	EON	V528
		P.O.	S306948

CAZ SHIP TO DATE | CAZ RET DATE

Hardware information							Stores Use			
COMMENT	IPC LOCATION	DESCRIPTION	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
	49-10-00A-000G-267 49-51-00-001J-046	TUBE FAN BUFF	3614792-1	265-3218	10-01-00	1				
	49-27-00-001-190 49-94-00-001J-170	TUBE XFER PV	3862552-1	265-0495	10-01-00	1				
	49-22-00A-000J-020	DUCT, SURGE	3884292-2	265-0674	10-01-00	1				
	49-10-00A-000Q-300	TUBE MID BRG	3880257-1	265-3255	10-01-00	1				
	49-10-00A-000L-120	TUBE DE-OIL	3880327-1	265-3301	10-01-00	1				
	49-10-00A-000F-550	TUBE GB VENT	3880328-1	265-3639	10-01-00	1				
	49-10-00A-000F-320 49-10-00A-000G-310	TUBE MID BRG PR	3880433-1	265-3105	10-01-00	1				
	49-10-00A-000F-170	TUBE MID BRG RT	3880434-1	265-3104	10-01-00	1				
	49-10-00A-000Q-300 49-16-01-001J-038	TUBE MID BRG	3880438-1	265-3623	10-01-00	1				
	49-10-00A-000F-181	TUBE AFT BRG RT	3880647-1	265-3106	10-01-00	1				
	49-10-00A-000H-520	TUBE FLOW DIV	3882720-1	265-3400	10-01-00	1				
	49-10-00A-000Q-510 49-16-01-001J-035	TUBE FUEL CONT	3883728-1	265-3627	10-01-00	1				
	49-10-00A-000E-331	TUBE GB VENT	3884333-1	265-0559	10-01-00	1				
	49-10-00A-000E-190	TUBE SURGE VLV	3884413-1	265-3062	10-01-00	1				
	49-10-00A-000H-010	TUBE INLT PLNM	3884433-1	265-3116	10-01-00	1				
	49-10-00A-000E-361	TUBE PDC 1	3884435-1	265-3117	10-01-00	1				
	49-10-00A-000F-141	TUBE GB PRESS	3884437-1	265-3050	10-01-00	1				
	49-27-00-001-184 49-94-00-001J-160	TUBE XFR PV	3862149-1	N/S	10-01-00	1				

APU S/N	62697	EON	V528
		P.O.	S306948

CAZ SHIP TO DATE | CAZ RET DATE

Hardware information							Stores Use			
COMMENT	IPC LOCATION	DESCRIPTION	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
	49-27-52-000K-020 49-51-00-001J-050	TUBE XFR CV	3862165-1	N/S	10-01-00	1				
	49-10-00A-000G-310	TUBE MID BRG	3880253-1	N/S	10-01-00	1				
	49-10-00A-000F-350	TUBE PV PRESS	3880432-1	N/S	10-01-00	1				
	49-10-00A-000H-600 49-94-00-001J-105	TUBE RT OIL CLR	3880270-1	N/S	10-01-00	1				
	49-10-00A-000F-360	TUBE AFT BRG RT	3880435-1	N/S	10-01-00	1				
	49-10-00A-000G-170	TUBE OIL FILL SCV	3880569-1	N/S	10-01-00	1				
	49-10-00A-000G-090	TUBE MID BRG	3880646-1	N/S	10-01-00	1				
	49-10-00A-000Q-160 49-16-01-001J-045	TUBE FUEL CONT	3882533-1	N/S	10-01-00	1				
	49-16-01-001J-035	TUBE FUEL CONT	3882559-1	N/S	10-01-00	1				
	49-10-00A-000H-240 49-10-00A-000Q-520	TUBE ACT DRN	3882528-1	N/S	10-01-00	1				
	49-10-00A-000E-250	TUBE PCD2	3884258-1	N/S	10-01-00	2				
	49-10-00A-000Q-250 49-16-01-001J-065	TUBE INLT PLNM	3882513-1	N/S	10-01-00	1				
	49-27-00A-000C-120 49-31-00-001-060	HOSE ASSY PRI	3882432-1	265-0323	10-01-00	1				
	49-27-00A-000C-150 49-31-00-001-075	HOSE ASSY SEC	3882433-1	N/S	10-01-00	1				
	49-10-00A-000H-480 49-31-00-001-002	HOSE IGV ACT	3882518-1	265-0536	10-01-00	2				

APU S/N	62697	EON	V528
		P.O.	S306948

CAZ SHIP TO DATE | CAZ RET DATE

	Hardware information						Stores Use			
COMMENT	IPC LOCATION	DESCRIPTION	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
	49-10-00A-000H-500 49-31-00-001-008	HOSE IGV ACT	3882519-1	265-0537	10-01-00	1				
	49-10-00A-000Q-290 49-16-01-001J-042	TUBE MID BRG VENT	3880568-1	265-3624	10-01-00	1				
	49-10-00A-000E-460A	TUBE SCV	1F17676-501	265-3150	10-01-00	1				
	49-10-00A-000Q-190 49-16-01-001J-057	TUBE CROSS VENT	3880648-1	265-3113	10-01-00	1				
	49-10-00A-000H-350	TUBE MID BRG SCAV	3614748-1	265-3265	10-01-00	1				

HISTORY PAGE

CAZ Qty Total =

ENTER REASON FOR REVISION

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	B22761

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
Honeywell International, Inc. 1944 E. Sky Harbor Circle Phoenix, AZ 85034 FAA CERTIFICATE #ZN3R030M	B22761 H7T790-001001

6. Item	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial / Batch No.	12. Status / Work
C01	FAN ASSY	3616959-6	N/A	000001	090396 TRACE # 07590- 949914-001R	OVERHAULED

13. Remarks:

REPAIR ORDER NUMBER: 949914-001
PART HAS BEEN WORKED AND INSPECTED IN ACCORDANCE WITH: MANUAL #: 49-52-37 REVISION: 02
ORI: T39191
REMARKS: C.A.F.E. REPORT & VIBRATION TEST DATA SHEET ATTACHED.

FOR JAA CUSTOMERS ONLY:
"THIS CERTIFIES THE WORK SPECIFIED IN BLOCK 12/13 WAS CARRIED OUT IN ACCORDANCE WITH JAR 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER JAA ACCEPTANCE CERTIFICATE NUMBER: JAA.4136"

14. Certifies the items identified above were manufactured in conformity to:

☐ Approved design data and are in a condition for safe operation.

☐ Non-approved design data specified in Block 13.

19. ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13.

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No:	20. Authorized Signature:	21. Approval/Certificate No:
			ZN3R030M
17. Name (Typed or Printed):	18. Date (m/d/y):	22. Name (Typed or Printed):	23. Date (m/d/y):
		ANDREW KAMINSKI	12/20/03

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

*Installer must cross-check eligibility with applicable technical data.

NSN 0052-00-012-9005

UNITED

PGEN446A-1
03/17/04
COAS FOR ENTIRE ASSEMBLY

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
COA SCHEDULING REPORT
REASON: REMOVAL

REQUESTOR NAME: REMOVAL
ORGANIZATION:

WORK CENTER: 554

SERIAL NBR	ET	MT	NAME	PWR RTG	CUST
62697		V	APU331	200E	UA

ORDER NUMBER
VEND

COA NUMBER	COA CAT	MODULE/ FUNC NBR	UNIT SERIAL	UNIT COA STATUS	ISS	COMP	COA TITLE	COMPLETION DATE
[illegible]	2		62697	OPEN	X460	X460	GTCP331-200 CLNG FAN VLV DELETION	
X460 V-9559-A	2		62697	OPEN	X460	X460	GTCP331-200 FLOW SENSING MODULE PALLET	
[illegible]	1		62697	OPEN	X460	X460	757/767 APU PNEU MOD FLT STAND & UPGRD	
S-9304	1		62697	OPEN	X460	X460	B757 331-APU INSTALL S/N DATA PLACARD	
S-9089	4	00988	UA00315633	F			757/767 GTCP331 APU IGV BUSHNG-UPGRADE	
S-9110	1		62697	OPEN	X460	X460	757/767 331 APU OIL CAL AND ADAPTER AS	
S-9127	2		62697	OPEN	X460	X460	GTCP331-200ER APU SCV SERPENTINE LINE	
S-9037	1		62697	OPEN	X460	X460	B767/B757 APU OIL LEVEL SIGHT GAGE PLT	

UNITED AIRLINES - MASTER ICS/BOM

Effectivity 331-200ER APU Engine Manual - Inspection and Condition Sheet

Origination Date: 3/12/2004

POWER SECTION MODULE "NV" **ALL PARTS CONTAINED WITHIN ARE NON HAZMAT**

60-49-20-00-00 ICS

EON: V518 | ESN: 61913 | VADE #: | CUSTOMER: UAL | MODULE ORDER #: NV518 | MODULE SERIAL #: P1375

DISPOSITION CODES:

E =	PART MEETS DETAIL PART EID REQUIREMENTS (ZERO TIME SINCE DETAIL PART INSPECTION)
A =	EXPOSED AREA OF PART MEETS VISUAL REQUIREMENTS OF APPROPRIATE EID (CONTINUED TIME SINCE DETAIL PARTS INSPECTION)
C =	PART ROUTED OR CORRECTIVE ACTION TAKEN
ATA# ___ = Function No.	EID NUMBER [49 precedes numbers shown) 49) 31-XX] SECTION / LIST - SEQUENCE NUMBER
EPM ___ = Function No.	STAMP TO INDICATE THAT PART HAS BEEN OFFLOGGED FROM MODULE FUNCTION NUMBER

INSPECTION NOTES

(STAMP OFF APPROPRIATE DISPOSITION CODE. MORE THAN ONE CODE MAY BE STAMPED.)
(INDICATE CONDITION OF UNSERVICEABLE PARTS REGARDLESS OF CONDITION.)
(TO CLEAR PARTS NOT EXPOSED DRAW A LINE THROUGH THE COMPLETE ENTRY AND STAMP IN LEFT MARGIN.)
(IF PART IS ROUTED ON AN R & R TAG IT IS MANDATORY TO STAMP THE APPLICABLE "E" "A" OR "C" BLOCK AND WRITE R & R IN THE "C" BLOCK THEN COMPLETE THE APPROPRIATE COMPUTER TRANSACTION.)
(ALL PARTS NEEDING REPAIR WILL HAVE AN IDENTIFICATION TAG WITH PART NUMBER, SERIAL NUMBER (IF APPLICABLE) AND THE QUANTITY, ATTACHED TO THE PART.)
(PARTS THAT DO NOT HAVE SPECIFIC EID'S WRITTEN FOR THEM MUST BE VISUALLY INSPECTED FOR GENERAL CONDITION PER 331-500 BOOK "0" 20-49-00-00, INTRODUCTION, SECTION 4, PARA A, STATEMENT 4.

MODULE INSPECTION GUIDE

(1) Module seperated from adjoining modules, inspected and found serviceable per EID 60-49-21-00-00 [ZERO (TSMI) No parts removed from module. No additional sign-off required.

I209A (2) Module partially or completely disassembled. Removed parts and / or exposed areas inspected per appropriate EID (ZERO TSDPI).

Control Date: 20040126

Revision Date 3/12/2004 Name

						CAZ SHIP TO DATE	CAZ RET DATE	MODULE ORDER #
APU S/N	61913	TSLV	06075	EON	V518			NV518
Total Time	18599	CSLV	06550	P.O.	S306133			MODULE SERIAL #
Total Cycles	20796			Date Rcvd.	03/09/04			P1375

Inspection Use Only					Hardware Info					Stores Use			
E	A	C	OFF-LOG FUNC #	COND/ROUTING	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
		I209A	EPM I209A 5719	OSV	BEARING THRUST	3613827-1	265-3238	20-01-01 35-020	1		1		
		I209A	EPM I209A 5720	OSV	BEARING ROLLER	3822099-1	265-0462	20-01-01 35-040	1		1		
		I209A	2240	LN 654058 prelim	HOUSING INLET	3810259-3	265-3071	22-01-00 20-100	1	1			
		I209A	5672	fretting OSV	RETAINER BRG	3826160-2	265-0471	22-02-00 12-150	1		1		
I209A			5675		INSERT SOUND ATTENUATOR	3810209-2	265-0048	22-03-00 16-010	1				
			5675		INSERT SOUND ATTENUATOR	DEC31-010 -501	265-0048	22-03-00 16-010	1				
		I209A	0999	ID OSV	HSG ASSY BRG	3810127-1	265-0045	22-04-00 16-015	1		1		
	I209A		2242		SEAL COUPLING	3822069-1	265-0458	22-05-00 11-110	1				
		I209A	1012	insert OSV	TIE-SHAFT	3822077-4	265-3356	22-07-00 11-090	1		1		
I209A			2278		INLET BELL	3810211-3	265-0449	22-08-00 16-130	1				
I209A			2278		INLET BELL	DEC31-012 -501	265-0449	22-08-00 16-130	1				
		I209A	2277	OD OSV	SHROUD	3810138-2	265-0204	22-09-00 16-140	1		1		
		I209A	EPM I209A 0993	LN 620619 prelim	IMPELLER C1	3822067-2	265-0457	22-10-00 11-030	1	1			
		I209A	0994	ID chipped OSV	DIFFUSER ASSY C1	3826230-1	265-0482	22-11-00 16-120	1		1		
		I209A	3826231-1	assy	C1 DIFFUSER VANE	3826231-1	265-3351	22-11-01 16-125	1	DO NOT SEND THIS PART TO CAZ. SEND DIFFUSER ASSY			

APU S/N	61913	EON	V518
		P.O.	S306133

CAZ SHIP TO DATE

CAZ RET DATE

MODULE ORDER # NV518

MODULE SERIAL # P1375

Inspection Use Only					Hardware Info					Stores Use			
E	A	C	OFF-LOG FUNC #	COND/ROUTING	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
		I209A	2252	Volute OSV	HSG ASSY COMP	3826138-3	265-3009	22-12-00 16-080	1	0	1		
		I209A	0995	EPN I209A on 654552	IMPELLER C2	3822068-1	265-0210	22-13-00 11-045	1	1			
		I209A	0996	warped side OSV	C2 DIFFUSER VANE	3826262-1	265-0484	22-14-00 16-100	1		1		
		I209A	0997	OD OSV	DESWIRL ASSY	3826110-2	265-0465	22-15-00 16-020	1		1		
		I209A	1000	crk OSV	LINER ASSY COMB TRANS	3844001-1	265-0113	22-16-00 16-030	1		1		
		I209A	2261	ID OSV	LABYRINTH SEAL	3844002-1	265-0226	22-17-00 16-040	1		1		
I209A			2257		MOUNT AFT	3870023-1	265-0291	22-20-00 16-420	1				
I209A			2257		MOUNT AFT	3870024-1	265-0292	22-20-00 16-420	1				
		I209A	2255	OSV	ROTOR SEAL	3822057-3 DEC31-167 -501	265-0456	22-22-00 35-060	1		1		
I209A			2261		BRACKET IGNITION BOX	3826168-1	265-0094	22-99-00 16-440	1				
I209A			2261		BRACKET FLOW DIVIDER	3826169-2	265-0091	22-99-00 16-440	1				
I209A			2261		BRACKET HEATSHIELD	3826176-2	265-0090	22-99-00 16-440	1				
I209A			2261		SHIELD MOUNT	3826177-2	265-0092	22-99-00 16-440	1				
I209A			2261		SHIELD MOUNT	3826178-3	265-0093	22-99-00 16-440	1				
I209A			2261		SHIELD MOUNT	3826179-1	265-0095	22-99-00 16-440	1				

APU S/N	61913	EON	V518
		P.O.	S306133

CAZ SHIP TO DATE

CAZ RET DATE

MODULE ORDER # NV518

MODULE SERIAL # P1375

Inspection Use Only					Hardware Info					Stores Use			
E	A	C	OFF-LOG FUNC #	COND/ROUTING	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
		I209A	EPM 1002	crk osv	CHAMBER COMBUSTION	3830051-5	265-3097	23-01-00 20-010	1		1		E74
			2258		RING CONTAINMT	3844045-2	265-0622	23-02-00 20-030	1				
I209A			1001		CASE COMB CHAMBER	3844053-1	265-0491	23-04-00 20-020	1				
			2259		RING SPLIT	3844006-1	265-0228	23-05-00 20-090	2				
I209A			1097		COUPLG & SEAL	3840016-1	265-0487	23-06-00 11-050	1				
		I209A	2234	sea strip osv	SHROUD FL NOZ	3830054-9	265-3204	23-32-00 20-540	12		3		
I203A			14520		RETAINER NOZ	3613619-1	265-3370	23-33-00 20-550	12				
		I209A	2260	osv	SUPPORT T1 STR	3844007-1	265-0229	24-01-00 31-020	1		1		
		I209A	2286	assy osv	STATOR ASSY T1	3844040-5	265-3205	24-02-00 31-010	1		1		E74
I209A		I209A	EPM 1005		STATOR VANE T1 MAR-M	3844038-4	265-3206	24-02-01 31-011	1				E74
		I209A	EPM 1005	crk assy osv	STATOR VANE T1 BI-CAST	3614744-3	265-3616	24-02-02 31-011	1				E74
		I209A	5710	Dissasy	WHEEL ASSY T1	3840002-3	265-3183	24-03-00 30-031	1				
		I209A	EPM 1004	LN 587207 prelim	DISC T1	3840019-1	265-0224	24-03-01 30-030	1	1			E74
			1003	burned osv	BLADES T1	E3840004-5	265-3181	24-03-02 32-170	36	36			552
		I209A	2262	coating osv	SHROUD T1	3844008-1	265-0230	24-04-00 31-080	1		1		

APU S/N	61913	EON	V518
		P.O.	S306133

CAZ SHIP TO DATE

CAZ RET DATE

MODULE ORDER # NV518

MODULE SERIAL # P1375

Inspection Use Only					Hardware Info					Stores Use			
E	A	C	OFF-LOG FUNC #	COND/ROUTING	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
		I203A	2281	LN 671460	STATOR ASSY T2	3844011-9	265-3208	24-05-00 31-060	1	DO NOT SEND THIS ASSY TO CAZ			
		I20	1008	crk OSV	STATOR VANE T2	3844012-3	265-0233	24-05-01 31-061	1		1		552
			2287	ID OSV	LABYRINTH SEAL T2	3844036-2	265-0250	24-05-03 31-063	1		1		552
		209A	2263	crk OSV	SUPPORT T2 STR	3844009-1	265-0231	24-06-00 31-050	1		1		
		I20	5711	disassy	WHEEL ASSY T2	3840006-1	265-0221	24-07-00 30-041	1	1			
		I	EPM 1007	LN 654022 prelim	DISC T2	3840007-1	265-0222	24-07-01 30-040	1	1			E74
		I20		U/S OSV	SEAL, DISC T2	868186(TYP)	265-3306	24-07-01 30-040	1		1		
		I209A	1006	F.O OSV	BLADES T2	E3840008-2	265-3176	24-07-02 32-100	40	40			552
		I20	2288	LN 654499 disassy	STATOR ASSY T3	3844018-1	265-0238	24-08-00 31-070	1	DO NOT SEND THIS ASSY TO CAZ			
			1010	crk OSV	STATOR VANE T3	3844019-1	265-0239	24-08-01 31-071	1		1		552
			2283	ID OSV	LABYRINTH SEAL T3	3844043-2	265-0256	24-08-03 31-073	1		1		552
		I209	~~EPM~~ 1009	F.O OSV SN 0-0345-7310	WHEEL ASSY T3	3840022-4	265-0223	24-09-00 30-061	1		1		E74
		I203	~~EPM~~ 1009	CUT assy OSV	SEAL ASSY	868186(TYP)	265-3306	24-09-00 30-061	1				
I209			1011		SUPPORT TURB BEARING	3844028-4	265-0595	24-10-00 20-025	1				
I209A			1091		COUPLING ROTOR	3840011-3	265-3037	24-11-00 30-100	1				

Power Section "NV " mod I & C Sheet pg 6 of 14

APU S/N	61913	EON	V518
		P.O.	S306133

CAZ SHIP TO DATE | CAZ RET DATE

MODULE ORDER # NV518

MODULE SERIAL # P1375

Inspection Use Only					Hardware Info					Stores Use			
E	A	C	OFF-LOG FUNC #	COND/ROUTING	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
I209A			5665		SUPPORT BRG	865042-6	265-0150	24-13-00 12-020	1				
		I209A	2250	Fretting 05V	HEATSHIELD	3613194-2 3844268-3	265-0594 265-3144	24-14-00 20-120	1		1		
I209A			1013	non routine 552 CRK	MUFFLER EXST	3850007-1	265-0117	24-16-00 31-210	1	1			
I209A			2253		HSG MUFFLER	3850010-2	265-0494	24-17-00 31-200	1				
~~HPG REPLENISHMENT PART~~			5714		GASKET CURVIC COUPLING	868892-1	265-3359	24-34-00 30-090	2	DO NOT SEND THIS PART TO CAZ-HPG RPL PART			
HPG REPLENISHMENT PART			5709A		GASKET CURVIC COUPLING	868892-2	265-0336	24-34-00 30-070	1	DO NOT SEND THIS PART TO CAZ-HPG RPL PART			
HPG REPLENISHMENT PART			5713		GASKET CURVIC COUPLING	868892-3	265-3360	24-34-00 30-080	1	DO NOT SEND THIS PART TO CAZ-HPG RPL PART			
~~HPG REPLENISHMENT PART~~			5715		GASKET CURVIC COUPLING	3842130-7	265-3212	24-34-00 30-075	1	DO NOT SEND THIS PART TO CAZ-HPG RPL PART			
I209A					NUT	3840017-1	N/S	24-35-00	1				
			5721		RETAINER BRG	3101091-3	265-0663	24-37-00 35-050	1				
		I209A	2264	05V	SEAL ASSY CARBON TURB	3844065-2	265-3040	24-42-00 12-010	1		1		
I209A			5787		CONE TURB TAIL	3850008-1	160-7796	24-43-00 55-100	1				
			2270		BRACKET DRAIN	3844078-1	265-0492	27-04-00 50-220	1				
I209A		I209A	5766	Ica 05V	SHIELD ASSY OIL IN & RET	3880170-3	265-3044	27-05-00 50-440	2		1		
		I209A	14940	Fretting 05V	TUBE OIL INLET	3880168-1	265-0146	27-05-01 50-640	1		1		

APU S/N	61913	EON	V518
		P.O.	S306133

CAZ SHIP TO DATE

CAZ RET DATE

MODULE ORDER # NV518

MODULE SERIAL # P1375

Inspection Use Only					Hardware Info					Stores Use			
E	A	C	OFF-LOG FUNC #	COND/ROUTING	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
I209A			14939		TUBE OIL OUTLET	3880169-2	265-3180	27-05-01 50-630	1				
[illegible]			5765		TUBE VENT	3880305-1	265-0533	27-06-00 50-430	1				
I209A			5762		BLANKET INSULATION	3826184-5	265-0478	27-10-00 50-000	1				
I209A			5763		BLANKET INSULATION	3826185-5	265-0479	27-10-00 50-000	1				
I209A			5764		BLANKET INSULATION	3826186-5	265-0480	27-10-00 50-000	1				
I209A			5768		BLANKET INSULATION	3844082-1	265-0687	27-10-00 50-000	1				
I209A			5767		BLANKET INSULATION	3844083-1	265-0688	27-10-00 50-000	1				
I209A			5769		BLANKET INSULATION	3844084-1	265-0689	27-10-00 50-000	1				
I209A			5771		BLANKET INSULATION	3844085-1	265-0690	27-10-00 50-000	1				
I209A			5771		BLANKET INSULATION	3844086-1	265-0691	27-10-00 50-000	1				
I209A			5696		MANIFOLD FUEL PRIMARY	3882426-1	265-0321	10-01-00 20-500	1				
I209A			5697		MANIFOLD FUEL SECONDARY	3882427-1	265-0322	10-01-00 20-510	1				
		I209A	EPM I209A 1014	OSV	NOZZLE FUEL PRIMARY	3830057-7	265-0101	10-01-00 20-499	6		6		E74
		I209A	EPM I209A 1015	OSV	NOZZLE FUEL SECONDARY	3830057-6	265-0218	10-01-00 20-509	6		6		E74
		I209A	5778	disassy	PUMP ASSY TURB SCAVENGE	3880160-5	265-0142	90-05-00 55-010	1	DO NOT SEND ASSY TO CAZ			

APU S/N	61913	EON	V518
		P.O.	S306133

CAZ SHIP TO DATE

CAZ RET DATE

MODULE ORDER # NV518

MODULE SERIAL # P1375

Inspection Use Only					Hardware Info					Stores Use			
E	A	C	OFF-LOG FUNC #	COND/ROUTING	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
I209A			15010		LEAD ASSY IGN EXCITER	53109-3	671-0049	41-15-00 55-510	1				
		I209A	0998	LN 666272 prelim	SHAFT ENG COMP	3822065-1	265-0208	22-06-00 11-100	1	1			

331-200ER "NV" MODULE

NON EID PARTS BILL OF MATERIAL PARTS ONLY

EFF 331-200ER

APU S/N	61913	EON	V518
		P.O.	S306133

CAZ SHIP TO DATE

CAZ RET DATE

MODULE ORDER # NV518

MODULE SERIAL # P1375

Hardware information

COMMENTS	IPC LOCATION	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	Stores Use: UAL QTY	CAZ QTY	JAL/CAZ INITIAL	UAL RECV
	49-22-00A-000D-160 49-25-00A-000E-245	SEAL ASSY	3611175-1 DEC31-157 -501	265-0037		1				
	49-24-00A-000B-070	RETAINER	3616847-1	265-3647		1				
	49-24-00A-000B-080	RETAINER	3616847-2	265-3648		1				
	49-22-00A-000D-225	SPACER BRG	3617723-1	265-3652		1				
	49-22-00A-000D-025 49-25-00A-000E-315	NUT HEX	3822056-1	265-0051		1				
	49-31-00-001-107 49-33-00A-000A-000A	FUEL NOZZLE SET PRIMARY	331 NOZ PRI	265-3098		1				
	49-31-00-001-108 49-33-00A-000B-000A	FUEL NOZZLE SET SECONDARY	331 NOZ SEC	265-3099		1				
	49-27-00A-000E-035 49-41-00-001-035	PLATE INSULATOR	3826170-1	N/S		1				
	49-24-00A-000F-015	WASHER	3840023-1	N/S		1				
	49-24-00A-000A-120	ADAPTER IGNITER	3888053-1	N/S		1				
	49-24-00A-000M-060	BAFFLE	PF3844080 -1	265-3016		1				
	49-24-00A-000B-060	SEAL TADPOLE	651-5503 -9002	265-3645		1				
100% ROUTE TO CAZ	49-24-00A-000G-205	T1 RING SEAL	AIR22389	265-0333		1		1		
	49-22-00A-000D-170 49-25-00A-000E-075	RETAINER SEAL	3826163-1	265-0088		1				
	49-24-00A-000L-030	RETAINER T1 BLADE	3840005-1	265-0103		36				

APU S/N	61913	EON	V518
		P.O.	S306133

CAZ SHIP TO DATE

CAZ RET DATE

MODULE ORDER # NV518

MODULE SERIAL # P1375

Hardware information

COMMENTS	IPC LOCATION	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	Stores Use: UAL QTY	Stores Use: CAZ QTY	Stores Use: UAL/CAZ INITIAL	Stores Use: UAL RECV
	49-24-00A-000J-010	RETAINER T2 BLADE	3840005-2	265-0486		40				
	49-24-00A-000F-055	ROTOR	3842032-2	265-0489		1		0		
	49-24-00A-000G-105	RETAINER SEAL	3844014-1	265-0234		1				
	49-24-00A-000K-020	RETAINER PISTON	3844058-1	265-3036		1				
	49-24-00A-000M-030	INNER SUPPORT	3844039-1	265-0253		1				
	49-24-00A-000G-085	SEAL LABYRINTH	3844043-2	265-0256		1				
	49-24-00A-000M-030	SUPPORT	3844049-1	265-3015		1				
	49-22-00A-000B-035	SEAL LABYRINTH	3844050 -1U1	265-3197		1				
	49-24-00A-000F-075	KEY ANTI-ROTATE	3101171-1	265-0023		1				
	49-24-00A-000F-085	WASHER TENSION	3000005-7	265-0021		1				

APU S/N	61913	EON	V518
		P.O.	S306133

CAZ SHIP TO DATE

CAZ RET DATE

MODULE ORDER # NV518

MODULE SERIAL # P1375

Hardware information | Stores Use

COMMENTS	IPC LOCATION	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
	49-24-00A-000F-065	RING THRUST	3101172-2	265-0024		1				
	49-91-41A-001B-240	HOUSING SET	3880942-1	265-3179		1				
	49-22-00A-000C-125	RETAINER	865057-1	265-0162		1				
	49-22-00A-000C-155	SPACER	866685-6	265-3323		4				
	49-16-01-001J-145 49-24-00A-000N-001	VALVE ASSY	968214-6	265-0181		1				
100% ROUTE TO CAZ	49-24-00A-000G-235	RING PISTON	AIR22387	265-0225		1		↑		
	49-24-00A-000K-030	T2 RING SEAL	AIR22388	265-0237		1				
	49-24-00A-000E-180	GEARSHAFT TURB SCAV DR	3880163-1	265-0145		1				
	49-24-00A-000F-005	NUT	3840017-1	N/S		1				

HISTORY PAGE

CAZ Qty Total =

ENTER REASON FOR REVISION

1. Approving National Aviation Authority/Country: **FAA/United States**

2. # AUTHORIZED RELEASE CERTIFICATE
FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number: 07N3451193

4. Organization Name and Address:
Honeywell International, Inc.
1944 E. Sky Harbor Circle
Phoenix, AZ 85034

PRODUCTION APPROVAL
TSOA

5. Work Order/Contract/Invoice Number:
AL01109661
B41827

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial / Batch No:	12. Status / Work:
001	DISK AXIAL	3846019-1	N/A TSO	000001	020335703173	NEW

13. Remarks:
THIS FORM IS ISSUED AT 1944 E. SKY HARBOR CIRCLE PHOENIX, AZ 85034 AS AUTHORIZED BY THE PRODUCTION APPROVAL HOLDER AIRWORTHINESS APPROVAL - PARTS.

14. Certifies the items identified above were manufactured in conformity to:
[X] Approved design data and are in a condition for safe operation.
[ ] Non-approved design data specified in Block 13.

19. [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13
Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature: Maureen K. Fitzgerald

16. Approval/Authorization No: ODARF602216NM

20. Authorized Signature:

21. Approval/Certificate No:

17. Name (Typed or Printed): MAUREEN K. FITZGERALD

18. Date (m/d/y): 03/27/04

22. Name (Typed or Printed):

23. Date (m/d/y):

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/component/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

*Installer must cross-check eligibility with applicable technical data.

NSN 0052-00-012-9005

LIFE LIMITED PART LOG

ASSEMBLY NAME | PART NUMBER

LIFE LIMITED PART NAME: DISK AXIAL | PART NUMBER: 3840019-1 | SERIAL NUMBER: 020335703173

MANUFACTURED PER FAR PART 21 UNDER PRODUCTION CERTIFICATE PC413 | SIGNATURE OR ACCEPTANCE STAMP: INSP STAMP # A-166

DATE INSTALLED	DATE REMOVED	ENGINE SERIAL NUMBER	TIME ON PART THIS INSTALLATION		TOTAL TIME ON PART		SIGNATURE/FAA NUMBER
			CYCLES*	HOURS	CYCLES*	HOURS	
			0:0	0:0	0:0	0:0	

* SEE SERVICE LIFE LIMITS OF CRITICAL LIFE LIMITED COMPONENTS. ENTRIES SHALL COMPY TO FAR 43.

PX-3107-76C

LIFE LIMITED PART MAINTENANCE RECORD

DATE	MAINTENANCE PERFORMED	AUTHORIZED SIGNATURE

PX-3107-76 BACK

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FORM 8130-3, AIRWORTHINESS APPROVAL TAG	EXT-3975D

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
EXTEX, Ltd. 5950 S. Sossaman Mesa, AZ 85212 FAA-PMA PQ2108NM	Order 8303 / PO REFS/O#45439

6. Item:	7. Description	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1.	Blade, , 1st Stg. Turbine Rotor	E3840004-5	Allied Signal Model GTCP331-200 Series *See reverse side of blue tag	72 (seventy-two)	L/N 5233	NEW

13. Remarks:

"AIRWORTHINESS APPROVAL- PARTS. THIS FORM IS NOT AN EXPORT APPROVAL"

FAA-PMA

14. Certifies the items identified above were manufactured in conformity to:

☒ Approved design data are in a condition for safe operation

☐ Non-approved design data specified in Block 13

19.

☐ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work performed, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
Pearl A. Dion	DMIR-636239-NM		
17. Name (Typed or Printed):	**18. Date: (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date: (m/d/y):**
Pearl A. Dion	November 20, 2002		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FORM 8130-3, AIRWORTHINESS APPROVAL TAG	EXT-4249D

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number
EXTEX, Ltd. 5950 S. Sossaman Mesa, AZ 85212 FAA-PMA PQ2108NM	ORDER 8688 / PO B49541

6. Item	7. Description	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work
1	Nozzle, 1st Stg.	E3844038-4	GTCP331-200 Series *See reverse side of blue tag	*10 (ten)	S/N MG9-S0109,MG9-S0111, MG9-S0112, MG9-S0086, ~~MG9-S0088,~~ MG9-S0096, MG9-S0089, MG9-S0099, MG9-S0103 & MG9-S0106	NEW

13. Remarks:

NV498-1 NV501-1

"AIRWORTHINESS APPROVAL- PARTS. THIS FORM IS NOT AN EXPORT APPROVAL"

FAA-PMA

1ea NV499

1pc returned to Extex 12-17-03 Return for 13 Credit # 1316 03/00a

1pc returned to Extex 11-17-03

14. Certifies the items identified above were manufactured in conformity to:

☒ Approved design data are in a condition for safe operation

☐ Non-approved design data specified in Block 13

19. ☐ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work performed, the items are approved for return to service.

15. Authorized Signature	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval Certificate No.:
Pearl A. Dion	DMIR-636239-NM		
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m-d-y):**
Pearl A. Dion	March 28, 2003		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part component assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensure that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	07N3313971

4. Organization Name and Address:		5. Work Order/Contract/Invoice Number:
Honeywell International, Inc. 1944 E. Sky Harbor Circle Phoenix, AZ 85034	PRODUCTION APPROVAL TSOA	AL01060843 B40272

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial / Batch No:	12. Status / Work:
001	NOZZLE ASSY	3830057-7	N/A TSO	000019	N/A. NOTE: ,All serialization not referenced here is not required or traceable by HONEYWELL INC. Reference FAA order 8130.21c)	NEW

13. Remarks:

THIS PORM IS ISSUED AT 1944 E. SKY HARBOR CIRCLE PHOENIX, AZ 85034 AS AUTHORIZED BY THE PRODUCTION APPROVAL HOLDER AIRWORTHINESS APPROVAL - PARTS.

14. Certifies the items identified above were manufactured in conformity to:

[X] Approved design data and are in a condition for safe operation.

[ ] Non-approved design data specified in Block 13.

19. [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No:	20. Authorized Signature:	21. Approval/Certificate No:
Lewis Emmitt	ODARF602216NM		
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
LEWIS EMMITT	11/05/03		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	746351-001

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
Honeywell International, Inc. *1944 E. Sky Harbor Circle* Phoenix, AZ 85034 FAA CERTIFICATE #ZN3R030M	746351-001 746351-001

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial / Batch No:	12. Status / Work:
001	BEARING RLR	3822099-1	N/A	000001	GR03 09100-S30 TRACE # 09100- N/A	OVERHAULED

13. Remarks:

REPAIR ORDER NUMBER: 746351-001
PART HAS BEEN WORKED AND INSPECTED IN ACCORDANCE WITH: MANJAL #: 49-23-49 REVISION: 15
ORI: T30904
REMARKS: BEARING RESTORATION PER SUPPLIER ROUTING 5RNH 106-265.

FOR JAA CUSTOMERS ONLY:
"THIS CERTIFIES THE WORK SPECIFIED IN BLOCK 12/13 WAS CARRIED OUT IN ACCORDANCE WITH JAR 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER JAA ACCEPTANCE CERTIFICATE NUMBER: JAA.4136"

14. Certifies the items identified above were manufactured in conformity to:	19. ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13
☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13.	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature	16. Approval/Authorization No:	20. Authorized Signature:	21. Approval/Certificate No:
			ZN3R030M
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
		BRUCE BREKKE	10/25/03

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1. Approving National Aviation Authority/ Country:	2	3. Form Tracking Number:
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	10219615

4. Organization Name and Address:	Cert. No.	5. Work Order /Contract/Invoice Number:
Delavan Inc d/b/a Turbine Fuel Technologies 811 Fourth St. West Des Moines, Iowa 50265	KT2R964K	B22011

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch No:	12. Status/Work:
01	NOZZLE ASSY	3836057-6	N/A	1	MFG ORDER# 00260178 SERIAL# WV1-0335	DLN P/N 68009-6HL OVERHAULED

13. Remarks: **OVERHAULED TO:** **CMM# 73-12-01**

This tag doesn't specify receiving inspection and Tear Down findings for the component. This data and other pertanent details are on file at the repair station under the Mfg. Order # shown above.

Critical processes performed: ☐ Welding per Delavan PS Spec; ☐ Brazing per Delavan PS Spec; ☐ Plating per Delavan PS Spec; ☐ _____ per Delavan PS Spec;

Critical inspection processes performed: ☐ X-Ray per Delavan PS Spec; ☐ FPI per Delavan PS Spec; [X] Pressure Test per Delavan PS Spec; [X] Functional Test per Delavan PS Spec;

"Certifies that the work specified in block 12/13 was carried out in accordance with JAR 145 and with respect to that work the aircraft component is considered ready for release to service under JAA Acceptance Certificate Number: JAA 4378"

14. Certifies that items identified above were manufactured in conformity to:
☐ Approved design data and are in condition for safe operation.
☐ Non-approved design data specified in Block 13.

19 [X] 14 CFR 43.9 Return to Service [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
			KT2R964K
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
		PAM LANE	SEP 15 2003

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1. Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1. Approving National Aviation Authority/ Country:	2	3. Form Tracking Number:
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	10219612

4. Organization Name and Address:	Cert. No.	5. Work Order /Contract/Invoice Number:
Delavan Inc d/b/a Turbine Fuel Technologies 811 Fourth St. West Des Moines, Iowa 50265	KT2R964K	B22011

6. Item:	7. Description:	8. Part Number:	9. Eligibility *	10. Quantity:	11. Serial/Batch No:	12. Status/Work:
01	NOZZLE ASSY	3830057-6	N/A	1	MFG ORDER# 00260178 SERIAL# WY1-0336	DLN P/N 68009-6HL OVERHAULED

13. Remarks: **OVERHAULED TO:** **CMM# 73-12-01**

This tag doesn't specify receiving inspection and Tear Down findings for the component. This data and other pertinent details are on file at the repair station under the Mfg. Order # shown above.

Critical processes performed. ☐ Welding per Delavan PS Spec. ☐ Brazing per Delavan PS Spec; ☐ Plating per Delavn PS Spec; ☐ _____ per Delavan PS Spec;

Critical inspection processes performed. ☐ X-Ray per Delavan PS Spec; ☐ FPI per Delavan PS Spec; [X] Pressure Test per Delavan PS Spec; [X] Functional Test per Delavan PS Spec;

"Certifies that the work specified in block 12/13 was carried out in accordance with JAR 145 and with respect to that work the aircraft component is considered ready for release to service under JAA Acceptance Certificate Number: JAA 4378"

14. Certifies that items identified above were manufactured in conformity to:
☐ Approved design data and are in condition for safe operation.
☐ Non-approved design data specified in Block 13.

13 [X] 14 CFR 43.9 Return to Service [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
			KT2R964K
17. Name (Typed or Printed):	18. Date (m/d/y):	22. Name (Typed or Printed):	23. Date (m/d/y):
		PAM LANE	SEP 15 2003

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1.
Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1. Approving National Aviation Authority/ Country:	2	3. Form Tracking Number:
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	10219610

4. Organization Name and Address:	Cert. No.	5. Work Order /Contract/Invoice Number:
Delavan Inc d/b/a Turbine Fuel Technologies 811 Fourth St. West Des Moines, Iowa 50265	KT2R964K	B22011

6. Item:	7. Description:	8. Part Number:	9. Eligibility *	10. Quantity:	11. Serial/Batch No:	12. Status/Work:
01	NOZZLE ASSY	3830057-6	N/A	1	MFG ORDER# 00260178 SERIAL# 1XM04420	DLN P/N 68009-6HL OVERHAULED

13. Remarks: **OVERHAULED TO:** **CMM# 73-12-01**

This tag doesn't specify receiving inspection and Tear Down findings for the component. This data and other pertinent details are on file at the repair station under the M/g. Order # shown above.

Critical processes performed: ☐ Welding per Delavan PS Spec; ☐ Brazing per Delavan PS Spec; ☐ Plating per Delavan PS Spec; ☐ _____ per Delavan PS Spec;

Critical inspection processes performed: ☐ X-Ray per Delavan PS Spec; ☐ FPI per Delavan PS Spec; ☒ Pressure Test per Delavan PS Spec; ☒ Functional Test per Delavan PS Spec;

"Certifies that the work specified in block 12/13 was carried out in accordance with JAR 145 and with respect to that work the aircraft component is considered ready for release to service under JAA Acceptance Certificate Number: JAA 4375"

14. Certifies that items identified above were manufactured in conformity to:
☐ Approved design data and are in condition for safe operation.
☐ Non-approved design data specified in Block 13.

19 ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
			KT2R964K
17. Name (Typed or Printed):	18. Date (m/d/y):	22. Name (Typed or Printed):	23. Date (m/d/y):
		PAM LANE	SEP 15 2003

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1.
Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1. Approving National Aviation Authority/ Country:	2	3. Form Tracking Number:
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	10219611

4. Organization Name and Address:	Cert. No.	5. Work Order /Contract/Invoice Number:
Delavan Inc d/b/a Turbine Fuel Technologies 811 Fourth St. West Des Moines, Iowa 50265	KT2R964K	B22011

6. Item:	7. Description:	8. Part Number:	9. Eligibility *	10. Quantity:	11. Serial/Batch No:	12. Status/Work:
01	NOZZLE ASSY	3830057-6	N/A	1	MFG ORDER# 00260178 SERIAL# WV1-0334	DLN P/N 68009-6HL OVERHAULED

13. Remarks: **OVERHAULED TO:** **CMM# 73-12-01**

This tag doesn't specify receiving inspection and Tear Down findings for the component. This data and other pertinent details are on file at the repair station under the Mfg. Order # shown above.

Critical processes performed: ☐ Welding per Delavan PS Spec; ☐ Brazing per Delavan PS Spec; ☐ Plating per Delavan PS Spec; ☐ _____ per Delavan PS Spec;

Critical inspection processes performed: ☐ X-Ray per Delavan PS Spec; ☐ FPI per Delavan PS Spec. ☒ Pressure Test per Delavan PS Spec; ☒ Functional Test per Delavan PS Spec;

"Certifies that the work specified in block 12/13 was carried out in accordance with JAR 145 and with respect to that work the aircraft component is considered ready for release to service under JAA Acceptance Certificate Number: JAA 4378"

14. Certifies that items identified above were manufactured in conformity to:
☐ Approved design data and are in condition for safe operation
☐ Non-approved design data specified in Block 13.

19 ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15. Authorized Signature:	16. Approval/Authorization No:	20. Authorized Signature:	21. Approval/Certificate No.:
			KT2R964K
17. Name (Typed or Printed):	18. Date (m/d/y):	22. Name (Typed or Printed):	23. Date (m/d/y):
		PAM LANE	SEP 15 2003

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.
Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1. Approving National Aviation Authority/ Country:	2	3. Form Tracking Number:
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	10219613

4. Organization Name and Address:	Cert. No.	5. Work Order /Contract/Invoice Number:
Delavan Inc d/b/a Turbine Fuel Technologies 811 Fourth St. West Des Moines, Iowa 50265	KT2R964K	B22011

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch No:	12. Status/Work:
01	NOZZLE ASSY	3830057-6	N/A	1	MFG ORDER# 00250178 SERIAL# WVI-0333	DLN P/N 68009-6H1 OVERHAULED

13. Remarks: **OVERHAULED TO:** **CMM# 73-12-01**

This tag doesn't specify receiving inspection and Tear Down findings for the component. This data and other pertinent details are on file at the repair station under the Mfg. Order # shown above

Critical processes performed: ☐ Welding per Delavan PS Spec, ☐ Brazing per Delavan PS Spec; ☐ Plating per Delavn PS Spec; ☐ _____ per Delavan PS Spec;

Critical inspection processes performed: ☐ X-Ray per Delavan PS Spec; ☐ FPI per Delavan PS Spec; ☒ Pressure Test per Delavan PS Spec; ☒ Functional Test per Delavan PS Spec;

"Certifies that the work specified in block 12/13 was carried out in accordance with JAR 145 and with respect to that work the aircraft component is considered ready for release to service under JAA Acceptance Certificate Number: JAA 4378"

14. Certifies [illegible] items identified [illegible]re were manufactured in conformity to:
☐ Appr[illegible]d design [illegible] and are in condition for safe op[illegible]tion
☐ Non-app[illegible]ed design data specified in Block 13.

19 ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15. Authorized Signature:	16. A[illegible]al/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
			KT2R964K
17. Name (Typ[illegible]r Printed):	18. Date (m/d/y):	22. Name (Typed or Printed):	23. Date (m/d/y):
		PAM LANE	SEP 15 2003

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1.
Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1 Approving National Aviation Authority/ Country:	2	3. Form Tracking Number:
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	10219614

4. Organization Name and Address:	Cert. No.	5. Work Order /Contract/Invoice Number:
Delavan Inc d/b/a Turbine Fuel Technologies 811 Fourth St. West Des Moines, Iowa 50265	KT2R964K	B22011

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch No:	12. Status/Work:
01	NOZZLE ASSY	3830057-6	N/A	1	MFG ORDER# 00260178 SERIAL# 1RN08112	DLN P/N 68009-6HL OVERHAULED

13. Remarks: **OVERHAULED TO:** **CMM# 73-12-01**

This tag doesn't specify receiving inspection and Tear Down findings for the component. This data and other pertinent details are on file at the repair station under the Mfg. Order # shown above.

Critical processes performed: ☐ Welding per Delavan PS Spec; ☐ Brazing per Delavan PS Spec; ☐ Plating per Delvavn PS Spec; ☐ _____ per Delavan PS Spec;

Critical inspection processes performed: ☐ X-Ray per Delavan PS Spec; ☐ FPI per Delavan PS Spec; ☒ Pressure Test per Delavan PS Spec; ☒ Functional Test per Delavan PS Spec;

"Certifies that the work specified in block 12/13 was carried out in accordance with JAR 145 and with respect to that work the aircraft component is considered ready for release to service under JAA Acceptance Certificate Number: JAA 4378"

14. Certifies that items identified above were manufactured in conformity to:
- ☐ Approved design data and are in condition for safe operation
- ☐ Non-approved design data specified in Block 13.

19 ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
		Pam Lane	KT2R964K
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
		PAM LANE	SEP 15 2003

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that he/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1.
Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1 Approving National Aviation Authority Country	2 AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number
FAA/UNITED STATES		101041

4 Organization Name and Address

Ace Precision Machining Corporation
W146 N5714 Enterprise Ave.
Menomonee Falls, WI 53051
FAA Repair Station #QAPR054K

5 Work Order/Contract/Invoice Number:
PO# B23154 Item 2

6 ITEM	7 DESCRIPTION	8 PART NUMBER	9 ELIGIBILITY:*	10 QUANITY	11 BATCH/SERIAL NUMBER	12 STATUS/WORK
1	Combustor	3830051-5	N/A	1	101041	Overhaul

13 REMARKS

This Component has been fully repaired and inspected in accordance with current FAA regulations, manufacturers manuals, and work instructions for which this repair station is certified. Pertinent details of the repair are on file at this repair station under the work order indicated above.

Auth Doc: 49-23-01/AR01 REV: 02/04/03
Thermal barrier coat forging curl

Auth Doc: IRM 49-23-49 REV: 15
Weld repair cracks

Thermal Barrier Coat

Size/straighten

Limited life parts must be accompanied by maintenance history including total time/total cycles/time since new

14 Certifies the items identified above were manufactured in conformity to:

☐ Approved design data and are in a condition for safe operation.

☐ Non-approved design data specified in Block 13.

19

☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15 Authorized Signature:	16 Approval/Authorizatoin No.:	20 Authorized Signature	21 Approval/CertificateNo.:
			QAPR054K
17 Name (Typed or Printed):	18 Date (m/d/y):	22 Name (Typed or Printed): Jason Glocka	23 Date (m/d/y): 2/11/2004

USER/INSTALLER RESPONSIBILITIES:

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in block 1. Statements in block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

*Installer must cross-check eligibility with applicable technical data.

3830051-5 Combustor Profile readings

Enter Batch job Number: 505224

Enter Tracking Number: 98577

Measurement point	Row A (4.25 from datum A)	Row B (3.75 from datum A)	Row C (3.25 from datum A)
1	7.892	7.893	7.889
2	7.895	7.892	7.884
3	7.901	7.896	7.891
4	7.921	7.905	7.908
5	7.924	7.919	7.914
6	7.923	7.874	7.883
7	7.880	7.882	7.888
8	7.892	7.896	7.899
9	7.920	7.919	7.922
10	7.922	7.924	7.919
11	7.894	7.896	7.895
12	7.887	7.890	7.900
13	7.906	7.906	7.908
14	7.879	7.877	7.877
15	7.876	7.884	7.885
16	7.885	7.881	7.883
17	7.874	7.868	7.866
18	7.866	7.863	7.869
19	7.861	7.855	7.857
20	7.880	7.870	7.862
21	7.887	7.887	7.886
22	7.892	7.882	7.876
23	7.899	7.881	7.876
24	7.893	7.877	7.882
25	7.907	7.899	7.894
26	7.920	7.907	7.897
27	7.900	7.889	7.891
28	7.891	7.887	7.889
29	7.889	7.890	7.889
30	7.902	7.891	7.896
31	7.887	7.888	7.898
32	7.907	7.905	7.901
33	7.895	7.892	7.896
34	7.906	7.903	7.892
35	7.912	7.905	7.897
36	7.896	7.894	7.895

Upper limit:	7.925
Lower limit:	7.848

UNITED AIRLINES
E74 CMM INSPECTION

OPERATOR NAME: PAUL FREVELE
LOT NUMBER: 644410
PART NUMBER: 3030051-5
SERIAL NUMBER: 101041

LEGEND
******
\+ = ABOVE TOLERANCE
\- = BELOW TOLERANCE
. = WITHIN TOLERANCE
O = NO MEASUREMENT AT THIS LOCATION

	ROWS						AMOUNT OUT OF TOLERANCE					
LEG	A	B	C	D	E	F	A	B	C	D	E	F
***	**********						**********					
0	.	O	O	O	O	O						
2	.	O	O	O	O	O						
4	.	.	.	.	.	.						
6	.	.	.	.	.	.						
8	.	.	O	O	O	O						
10	O	.	O	O	O	O						
12	O	O	O	O	O	O						
14	O	O	O	O	O	O						
16	O	O	O	O	O	O						
18	O	O	O	O	.	.						
20	.	.	O	O	.	.						
22	.	.	.	.	.	.						
24	.	.	.	.	.	.						
26	.	.	.	.	.	.						
28	.	O	O	O	O	O						
30	.	O	O	O	O	O						
32	.	O	O	O	O	O						
34	.	.	.	.	.	.						
36	.	.	.	.	.	.						
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52	.	.	.	.	.	.						
54	.	.	.	.	.	.						
56	.	.	.	.	.	.						
58	.	O	O	O	O	O						
60	.	O	O	O	O	O						
62	.	O	O	O	O	O						
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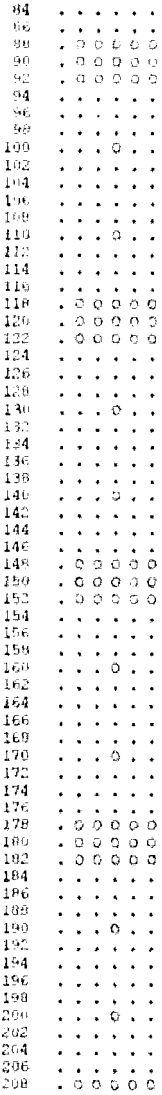
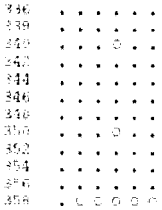




1. Approving National Aviation Authority/Country	2.	3. From Tracking Number:
FAA/United States	**AIRWORTHINESS RELEASE CERTIFICATE** FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	60 86842

4. Organizations Name and Address:	4. Work Order/Contract/ Invoice Number:
Timken Aerospace Services (PBC), 336 Mechanic Street, Lebanon NH 03766 (USA)	8005188/B23409

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10 Quantity:	11. Serial/Batch Number:	12 Status/Work:
1	BEARING	3613827-1	N/A	ONE	UA04 S1998-184	Overhauled

13. REMARKS:

Work was performed in accordance with: TAS RSUAL 49-20-01/AR02

14. Certified the items identified above were manufactured in conformity to:	19. ☒ 14 CFR 43.9 Return to Service Other regulation specified in Block 13
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 18	Certifies, that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature	16. Approval/Authorization No	20. Authorized Signature:	21. Certificate Number:
		RJ Barnum	QPBR408K
17. Name (typed or printed)	18. Date (m/d/yy)	22. Name (typed or printed): RJ Barnum	23. Date (m/d/yy) March 10, 2004

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with national regulations by the user/installer before the aircraft may be flow.

1. Approving National Aviation Authority (Country)	2.	3. Form Tracking Number
FAA UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	RG606-663

4. Organization Name and Address	5. Work Order, Contract or Invoice Number
CHROMALLOY ARIZONA 5161 W. Polk Street, Phoenix, AZ 85043	S295018

6. Item	7. Description	8. Part Number	9. Eligibility *	10. Quantity	11. Serial/Batch Number	12. Status/Work
1	STAGE 3 SEAL	3844043-2	N/A	1	RG606-663	Overhauled

13. Remarks

WORK ORDER
The work described in block 12 was performed in accordance with:
IRM 49-23-49 Rev. 15, 09/29/2000
FAA DER APPROVAL No. DER-A094, 07/02/1998

Certifies that the work specified in block 12/13 was carried out in accordance with JAR 145 and with respect to that work the aircraft component is considered ready for release to service under JAA Acceptance Certificate Number: JAA.4325

14. Certifies the item identified above were manufactured in conformity to:
[ ] Approved design data and are in a condition for safe operation.
[ ] Non-approved design data specified in Block 13

19. [X] 14 CFR 43.9 Return to Service [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished with Title 14, Code of Federal Regulations, part 43 and in respect to the work items are approved for return to service

15. Authorized Signature	16. Approval Authorization No.	20. Authorized Signature	21. Approval/Certificate No.
		Patricia J. Peterson	TR3DB77L
17. Name (Typed or Printed)	**18. Date (mm/dd/yyyy)**	**22. Name (Typed or Printed)**	**23. Date (mm/dd/yyyy)**
		PATRICIA J PETERSON	03/10/2004

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1 it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the airworthiness authority of the country specified in block 1.

Statements in block 14 and 19 do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user installer before the aircraft may be flown.

*Installer must cross check eligibility with applicable technical data

NSN 0052-01-0102-9005

1. National Aviation Authority
UNITED STATES

AUTHORIZED RELEASE CERTIFICATE

2.

CHROMALLOY ARIZONA
5161 W. Polk Street, Phoenix, AZ 85043

3. Work Order Number
S00134

4. Item	5. Description	6. Part Number	7. Eligibility	8. Quantity	9. Serial/Batch Number	10. Status/Work
1	STAGE 2 SEAL	3844036-2	N/A	1	FJ456-478	Overhauled

13. Remarks

WORK ORDER
The work described in block 12 was performed in accordance with:
IRM 49-23-49 Rev. 15, 09/29/2000
FAA DER APPROVAL No. DER-A094, 07/02/1998

Certifies that the work specified in block 12/13 was carried out in accordance with JAR 145 and with respect to that work the aircraft component is considered ready for release to service under JAA Acceptance Certificate Number: JAA.4325

14. Certifies the item identified above were manufactured in conformity to:

[ ] Approved design data and are in a condition for safe operation.

[ ] Non-approved design data specified in Block 13.

19. [X] 14 CFR 43.9 Return to Service [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished with Title 14, Code of Federal Regulations, part 43 and in respect to the work, the items are approved for return to service

15. Authorized Signature	16. Approval Authorization No.	20. Authorized Signature	21. Approval Certificate No.
		Patricia J Peterson	TR3D877L
17. Name (Type or Print)	18. Date (mm/dd/yyyy)	22. Name (Type or Print)	23. Date (mm/dd/yyyy)
		PATRICIA J PETERSON	02/27/2004

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component as certified.

Where the user/installer work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1 it is essential that the user/installer ensures that the User/Airworthiness Authority accepts parts/components accredited from the airworthiness authority of the country specified in block 1.

Statements in block 14 and 19 do not constitute installation certification. In all cases aircraft maintenance record must contain an installation certification issued in accordance with the national regulations by the user/installer for/to the aircraft may be shown.

VOLVO AERO SERVICES LP

VOLVO

Part or Material Certification Form

ISO9001, AS9100 - ATA Specification 106

PAGE: 1 of 1

1. Seller's Name: Volvo Aero Services LP	3. Reference # D3MA3928
4. VOLVO AERO SERVICES LP 645 Park of Commerce Way Boca Raton, 33487	Phone # : (561) 998-9330 Fax # : (561) 998-9714 SITA/Wire Code : FLLGDXD Status : Surplus Parts Provider
5a. Seller's Contract Number : 004345008	5b. Buyer's P.O. Number : B41735: CHROMALLOY GAS TURBINE CORP

6. Item	7. Description	8a. Part Number	8b. Manufacturer	9. Eligibility	10. Quantity	11. Serial/Batch	12. Status
1	STATOR	3844012-3	ALLIEDSIGNAL INC	T.B.V	1	NSN	NEW

13a. REMARKS:

P# B41735

13b. Obtained from: HONEYWELL Traceable to: 145 HONEYWELL INTERNATIONAL INC	13c. Last Certified By: N/A Last Cert Date: Cert. No.

TO THE BEST OF OUR KNOWLEDGE BASED ON THE INFORMATION PROVIDED BY THE SUPPLIER IDENTIFIED IN BLOCK 13b, THE PART(S) DESCRIBED ABOVE WERE NOT OBTAINED FROM ANY GOVERNMENT OR MILITARY SOURCE NOR SUBJECTED TO CONDITIONS AS DEFINED IN FAA AC 20-62D Para 8(c)2 (EXTREME STRESS, SUDDEN STOPPAGE, HEAT, MAJOR FAILURE OR ACCIDENT).

14. New Parts/Material Certification

The following signature attests that to the best of our knowledge, based on the information provided by the supplier identified in Block 13b, the part(s) or material(s) identified above was (were) manufactured by an FAA Production Approval Holder or to an industry or commercial standard.

[redacted]

Signature	Name PAULA BAILEY	For Volvo Aero Services Quality Assurance
	Date 03/10/04	

Notice: the above signature binds the signer and the SELLER to the accuracy of the information provided in this Form. Should the information provided in this FORM contain inaccuracies or misrepresentations, the signer and the SELLER be liable for damages and are subject to criminal prosecution under state and federal law.

1. Approving National Aviation Authority/Country: F. A/UNITED STATES	2. **AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number: 07N3188331 -E1/227625/001

4. Organization	Production Approval	5. Work Order/Contract/Invoice Number:
HONEYWELL INTERNATIONAL INC. UNIT 2-4 CHEVRON EATON RD., HEMEL HEMPSTEAD HERTFORDSHIRE HP2 7DR U.K.	TSOA	062901 EUN0228299 PO: D3MA3927106

6. Item	7. Description	8. Part Number	9. Eligibility *	10. Qty	11. Serial / Batch Number	12. Status / Work
1	STATOR	3844012-3	N/A TSO	1	N/A	NEW

13. Remarks THIS FORM IS ISSUED AT UNIT 2-4 CHEVRON
EATON RD., HEMEL HEMPSTEAD HERTFORDSHIRE HP2 7DR U.K.
AS AUTHORIZED BY THE PRODUCTION APPROVAL HOLDER

SUPPLEMENT EXPORT; UNITED STATES OF AMERICA

ALL SERIALIZATION NOT REFERENCED IN BLOCK 11 OF THIS FORM IS NOT REQUIRED OR TRACEABLE BY HONEYWELL

PO#41735

Limited life parts must be accompanied by maintenance history including total time / total cycles / time since new.

14 Certifies the items identified above were manufactured in conformity to:
[X] Approved design data and are in a condition for safe operation.
[ ] Non-approved design data specified in Block 13.

19. [ ] 14 CFR 43.9 return to service [ ] Other regulation specified in Block 13.

Certifies that unless otherwise specified in Block 13 the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title14, Code of Federal Regulations: part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature	16. Approval/Authorization No:	20. Authorized Signature:	21. Approval/Certificate Number
	ODARF602216NM		
17. Name (typed or printed)	**18. Date (mm/dd/yy):**	**22. Name (typed or printed)**	**23. Date (mm/dd/yy):**
GARY KING	12/29/03		

User / Installer Responsibilities: It is important to understand that the existence of this document alone does not automatically constitute authority to install the part / component / assembly. Where the user / installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1 it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the Airworthiness Authority of the country specified in block 1. Statements in block 14 and 19 do not constitute certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulation by the user/installer before the aircraft may be flown.

*(Optional) Installer must cross check eligibility with applicable technical data

1. Approving National Aviation Authority/Country:
FAA/UNITED STATES

2.

AUTHORIZED RELEASE CERTIFICATE

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

07N3188331 -E1/227625/001

4. Organization: HONEYWELL INTERNATIONAL INC.
UNIT 2-4 CHEVRON
EATON RD., HEMEL HEMPSTEAD
HERTFORDSHIRE HP2 7DR U.K.

Production Approval
TSOA

5. Work Order/Contract/Invoice Number:
062901
EUN0228299
PO: D3MA3927106

6. Item	7. Description	8. Part Number	9. Eligibility *	10. Qty	11. Serial / Batch Number	12. Status / Work
1	STATOR	3844012-3	N/A TSO	1	N/A	NEW

13. Remarks: THIS FORM IS ISSUED AT UNIT 2-4 CHEVRON
EATON RD., HEMEL HEMPSTEAD HERTFORDSHIRE HP2 7DR U.K.
AS AUTHORIZED BY THE PRODUCTION APPROVAL HOLDER

SUPPLEMENT EXPORT: UNITED STATES OF AMERICA

ALL SERIALIZATION NOT REFERENCED IN BLOCK 11 OF THIS FORM IS NOT REQUIRED OR TRACEABLE BY HONEYWELL

Pof
84/735

Limited life parts must be accompanied by maintenance history including total time / total cycles / time since new.

14. Certifies the items identified above were manufactured in conformity to:
[X] Approved design data and are in a condition for safe operation.
[ ] Non-approved design data specified in Block 13.

19. [ ] 14 CFR 43.9 return to service [ ] Other regulation specified in Block 13.

Certifies that unless otherwise specified in Block 13 the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title14, Code of Federal Regulations: part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature	16. Approval/Authorization No:	20. Authorized Signature:	21. Approval/Certificate Number
	ODARF602216NM		
17. Name (typed or printed)	18. Date (mm/dd/yy):	22. Name (typed or printed)	23. Date (mm/dd/yy):
GARY KING	12/29/03		

User / Installer Responsibilities: It is important to understand that the existence of this document alone does not automatically constitute authority to install the part / component / assembly. Where the user / installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the Airworthiness Authority of the country specified in block 1. Statements in block 14 and 19 do not constitute certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulation by the user/installer before the aircraft may be flown.

FAA Form 8130-3

*(Optional) installer must cross check eligibility with applicable technical data.

265-0037

B41422

263827 11/18/03 CC

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	DEC031114-4019-3136

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
DEC TECHNOLOGIES, INC., 501 INDUSTRIAL PARK ROAD, PINEY FLATS, TN 37686 PQ1469CE	TRA117161

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	SEAL ASSEMBLY, COMPRESSOR	DEC31-157-501	TO BE VERIFIED BY INSTALLER	25	44828	NEW

13. Remarks:

"THIS PMA PART IS NOT A CRITICAL COMPONENT", "AIRWORTHINESS APPROVAL" END

14. Certifies the items identified above were manufactured in conformity to:

☑ Approved design data and are in a condition for safe operation.
☐ Non-approved design data specified in Block 13.

19. 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
Dennis Scalf	DMIR 511218CE		
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
Dennis Scalf	November 14, 2003		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

FAA Form 8130-3 (6-01) *Installer must cross-check eligibility with applicable technical data. NSN: 0052-00-012-9005

DEC TECHNOLOGIES, INC.
Piney Flats, TN 37686
501 Industrial Park Road
Tel. (423) 538-0919
Fax (423) 538-0838

263255 10/17 SM

DEC TECHNOLOGIES, INC. DEC31-157-501
MODEL ELIGIBILITY:
Boeing 757 and 767
Airbus A300-600 and A310

FAA/PMA
10/14/03

DEC31 157-501

CERTIFICATION NUMBER 3993
PACKING SLIP NUMBER 3120

CERTIFICATE OF CONFORMANCE

FOR: TRANSAERO, INC.
80 CROSSWAYS PARK DRIVE
WOODBURY, NEW YORK 11797

DATE: OCTOBER 15, 2003

P.O. NUMBER 117161

PART NUMBER DEC31-157-501

QTY. ORDERED 25

DESCRIPTION SEAL ASSEMBLY, COMPRESSOR

QUANTITY SHIPPED 25

PMA SUPPLEMENT NUMBER 50

SERIAL NUMBERS

IT IS HEREBY CERTIFIED THAT THESE ITEMS HAVE BEEN MANUFACTURED TO FEDERAL AVIATION ADMINISTRATION APPROVED DESIGN DATA AND INSPECTED IN ACCORDANCE WITH FEDERAL AVIATION REGULATION 21.303[b].

WE FURTHER CERTIFY THAT THE MATERIAL TEST REPORTS AND PROCESS CERTIFICATIONS ARE ON FILE AND SUBJECT TO YOUR EXAMINATION AT OUR FACILITY.

EQUIPMENT CONTAINING MERCURY OR MERCURY COMPOUNDS WERE NOT USED FOR THE MANUFACTURING, ASSEMBLY, PACKAGING, INSTALLATION, EXAMINATION OR TESTING OF PARTS OR ASSEMBLIES ON THIS ORDER.

SHIPMENT COMPLETE X PARTIAL SHIPMENT _

Dennis Scalf

DENNIS SCALF
QUALITY MANAGER

Tel: 516-921-7400
SITA: ISPTXCR
Fax: 516-921-7407

TRANSAERO, inc.

80 Crosswnys Park Drive, Woodbury, New York, U.S.A. 11797-2045

Our Reference Number
CRZ-159305

Certificate of Conformance

Sold To: Chromalloy Arizona
5161 West Polk Street
Phoenix, AZ 85043

Marks

190143 1/20/04
Page 1

Ship To: Chromalloy Arizona
5150 West Van Buren Street
Phoenix, AZ 85043
ATTN: JERRY MOORE

Customer Order No: B41442

These commodities, technologies or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to U.S. law prohibited	Order Date 01/20/04	Code	Comp [XX] Part [ ] 1
Delivery Requested	Terms Net 30 Days	F.O.B. Point Factory/Origin	Ship Via UPS Red Coll.

Item	Part Number/Description	Quantity	Unit Price	Back Ordered	Shipped	Extension
1	DEC31-157-501 Seal Assembly, Compressor (3611175-1) DELIVERY: STOCK Manufacturer: DEC Technologies Inc. Receiving (Traceability)#: 263255 - 9 EACH Receiving (Traceability)#: 263827 - 19 EACH	28		0	28	

Certificate of Conformance

Resale Number 11-1761717 United States Export License May Be Required

Transaero, Inc.

Certificate of Conformance

It is hereby certified that the items or materials covered by this document have been inspected, tested and conform to the approval specifications relative thereto. Applicable certifications and data are on file at our facility and are available for review on site.

Authorized Signature

1. Approving National Aviation Authority (Country): FAA / United States	2. **AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number: 827115
[illegible]		5. Work Order, Contract, Inv#

4. Item	6. Description	7. Part Number	8. Quantity	9. Unit	10. Status/Work	11. Serial No.	12. Status/Work
1	SEAL ROTOR	[illegible]	N.A	1	OVERHAULED	B17115	OVERHAULED

13. Remarks

The above identified part was overhauled and inspected IAW Chromalloy Component Services, Inc. Repair Manual CSI-0381-200 REV 8/31 - EID #3-09-01-02-00, dated 2 February 2001 and CMI DER Repair WW01-15.

Repair WW01-15, Hardface Replacement
E.M.D.I.

NOTE: Process Performed by an Outside Vendor

LC-12 (Chromium Carbide Applied)
Bronair, North Haven, Conn.

Certifies that the work specified in Block 12/13 was carried out in accordance with Par 145 and with respect to that work the aircraft component is considered ready for release to service under FAA Acceptance Certificate Number: JAA5013.

14. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13.	19. ☒ 14 CFR 43.9 Return to Service ☒ Other Reg. spec. in Block 13 certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.	
15. Authorized Signature:	16. Approval/Auth. No.	20. Authorized Signature: Susan J. Moore
		21. Approval/Certificate No. WMFK711K
		22. Name (Typed or Printed)
		23. Date (m/d/y):

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1 it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

FAA 8130-3 (7-98) * Installer must retain this block completely with applicable technical data [illegible]

1. Approving National Aviation Authority/Country:	2. AUTHORIZED RELEASE CERTIFICATE	3. Form Tracking Number:
FAA / United States	FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	821840

4. Organization:	5. Work Order, Contract or Invoice No.
Praxair Surface Technologies, Inc. 441 Sackett Point Road North Haven, Connecticut 06473	160543

6.Item	7. Description	8. Part Number	9.Eligibility*	10.Quantity	11.Serial/Batch Number	12.Status/Work
1	ROTOR SEAL	3822057-3	N/A	1	B17115	REPAIRED

13. Remarks

E/M GTCP331-200/-250 ATA: 49-23-49.
REPAIR WG01-15
.008/.010" THICKNESS OF LC-1C (CHROME CARBIDE) COATING APPLIED.

Praxair Surface Technologies, Inc. certifies that the work specified in block 12/13 was carried out in accordance with Jar 1.5 and with respect to that work the aircraft component is considered ready for release to service under JAA Acceptance Certificate Number: JAA.4768

14. Certifies the items identified above were manufactured in conformity to:
☐ Approved design data and are in a condition for safe operation.
☐ Non-approved design data specified in Block 13.

19. ☒ 14 CFR 43.9 Return to Service ☑ Other Reg. spec. in Block 13
Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.	20. Authorized Signature	21. Approval Certificate Number:
			OY25074L
17. Name(Typed or Printed)	18. Date (m/d/y):	22. Name (Typed or Printed)	23. Date (m/d/y):
		Dean Miles Leighton	9/24/03

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

CZ CHROMALLOY AZ

1. Approving National Aviation Authority Country	2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number
FAA/United States		C311001 - 1

4. Organization Name and Address:

Advanced Materials Technologies, Incorporated, 2015 West Alameda Drive Tempe, Arizona 85282, (ZT3R036M)

5. Work Order/Contract/Invoice Number

B22855

RO# NV864

6. Item	7. Description	8. Part Number	9. Eligibility *	10. Quantity	11. Serial/Batch Number	12. Status/Work
001	SHROUD	3810138-2	N/A	1 EA	N/A C311001	OVERHAULED

13. REMARKS. INSPECTED AND OVERHAULED IN ACCORDANCE WITH UAL MANUAL 60-49-22-09/AR01, DATED 06/16/97.

"CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12/13 WAS CARRIED OUT IN ACCORDANCE WITH JAR 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER JAA ACCEPTANCE CERTIFICATE NUMBER: JAA.4020."

14. Certifies the items identified above were manufactured in conformity to:

☐ Approved Design data and are in a condition for safe operation

☐ Non-Approved Design data specified in Block 13.

19. [X] 14CFR 43.9 Return to Service [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13 the work in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service

15. Authorized Signature	16. Approval/Authorization No.:	20. Authorized Signature	21. Approval/Certificate No:
			ZT3R036M
17. Name (Typed or Printed)	18. Date(m/d/y)	22. Name (Typed or Printed)	23. Date (m/d/y)
			1/28/2004

USER / INSTALLER RESPONSIBILITIES:

It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part/component assembly.

Where the user installer work in accordance with the national regulations of an Airworthiness Authority different than the Airworthiness Authority of the country specified in block 1, it is essential that the user installer work ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the Airworthiness Authority of the country specified in block 1.

Statements in block 14 and 19 do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user installer before the aircraft may be flown.

* Installer must cross check eligibility with applicable technical data

1. Approved National Aviation Authority or Country	2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number
FAA UNITED STATES		101634

4. Organization Name and Address	5. Work Order Contract Invoice Number
Ace Precision Machining Corporation W146 N9714 Enterprise Ave. Menomonee Falls, WI 53051 FAA Repair Station #QAPR054K	PO# B23287 Item 1

6. ITEM	7. DESCRIPTION	8. PART NUMBER	9. ELIGIBILITY *	10. QUANTITY	11. BATCH/SERIAL NUMBER	12. STATUS/WORK
1	Transition Liner	3844001-3	N/A	1	101634	Overhaul

13. REMARKS

Host component has been fully repaired and inspected in accordance with current FAA regulations, manufacturers manuals, and work instructions for which this repair station is certified. Pertinent details of the repair are on file at this repair station under the work order indicated above.

Auth Doc: IRM 49-23-49 REV 15

Thermal Barrier Coat | Replace inner flange | Replace bolts

Limited life parts must be accompanied by maintenance history including total time, total cycles, time since new.

14. Certifies the items identified above were manufactured in conformity to:

☐ Approved design data and are in a condition for safe operation

☐ Non-approved design data specified in Block 13

19.

☒ 14 CFR 43 or Equivalent Part 43 ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 was described in Block 13 was accomplished in accordance with title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15. Authorized Signature	16. Approval/Authorization No.	20. Authorized Signature	21. Approval Certificate No.
			QAPR054K
17. Name (Typed or Printed)	**18. Date (m/d/y)**	**22. Name (Typed or Printed)**	**23. Date (m/d/y)**
		Jason Glunz	3 9 2004

USER INSTALLER RESPONSIBILITIES

It is important to understand that the certification of this document alone does not automatically constitute authority to install the part component assembly. Where the user installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user installer ensures that the airworthiness authority accepts parts components assemblies from the airworthiness authority of the country specified in block 1. Statements in block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations for the user installer before the aircraft may be flown.

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	WO #114392

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
BRITT METAL PROCESSING, INC. 15800 N.W. 49TH AVE MIAMI, FLORIDA 33014 DP4R136M	PO#B22144

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	DIFFUSER, 2ND STAGE - GTCP331	3826262-2MOD	TBV by installer	1	BMP #114392	OVERHAULED

13. Remarks:
OVERHAULED I.A.W. MANUAL 49-22-14/AR01, SEE BMP-144 FORM
OTHER APPROVALS->FAA 9108063D
CERTIFIES WORK IN BLOCK 12/13 WAS CARRIED OUT I.A.W. JAR 145 REGULATION AND ARE READY FOR RELEASE TO SERVICE UNDER JAA ACCEPTANCE CERTIFICATE # JAA 4279

14. Certifies the items identified above were manufactured in conformity to:

☐ Approved design data and are in condition for safe operation.

☐ Non-approved design data specified in Block 13.

19. ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13

Certifies that unless otherwise specified in block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
			DP4R136M
17. Name (Typed or Printed):	**18. Date:**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
		GERMAN H. VANEGAS	09/30/03

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

CZ CHROMALLOY AZ

1. Approving National Aviation Authority Country	2. AUTHORIZED RELEASE CERTIFICATE	3. Form Tracking Number
FAA/United States	FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	C401043 - 1

4. Organization Name and Address

Advanced Materials Technologies, Incorporated, 2015 West Alameda Drive Tempe, Arizona 85282, (ZT3R036M)

5. Work Order/Contract/Invoice Number

B23128

ROW NV501

6. Item	7. Description	8. Part Number	9. Eligibility *	10. Quantity	11. Serial/Batch Number	12. Status/Work
001	HOUSING	3826138-3	N/A	1 EA	N/A / C401043	OVERHAULED

13. REMARKS: INSPECTED AND OVERHAULED IN ACCORDANCE WITH UAL MANUAL 60-49-22-12/AR03, DATED 08/12/02.

"CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12/13 WAS CARRIED OUT IN ACCORDANCE WITH JAR 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER JAA ACCEPTANCE CERTIFICATE NUMBER: JAA.4020."

14. Certifies the items identified above were manufactured in conformity to:

☐ Approved Design data and are in a condition for safe operation

☐ Non-Approved Design data specified in Block 13.

19. [X] 14CFR 43.9 Return to Service [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13 the work in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service

15. Authorized Signature	16. Approval/Authorization No.:	20. Authorized Signature	21. Approval/Certificate No:
			ZT3R036M
17. Name (Typed or Printed)	**18. Date(m/d/y)**	**22. Name** *(Typed or Printed)*	**23. Date (m/d/y)**
			2/27/2004

USER / INSTALLER RESPONSIBILITIES:

It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part /component assembly.

Where the user installer work in accordance with the national regulations of an Airworthiness Authority different than the Airworthiness Authority of the country specified in block 1, it is essential that the user installer work ensures that his/her Airworthiness Authority accepts parts components assemblies from the Airworthiness Authority of the country specified in block 1.

Statements in block 14 and 19 do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user installer before the aircraft may be flown.

* Installer must cross check eligibility with applicable technical data

1. Approving National Aviation Authority/Country	2.	3. Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	892821-001

4. Organization Name and Address	5. Work Order/Contract/Invoice Number
Honeywell International, Inc. 1944 E. Sky Harbor Circle Phoenix, AZ 85034 FAA CERTIFICATE #ZN3R030M	892821-001 892821-001

6. Item	7. Description	8. Part Number	9. Eligibility*	10. Quantity	11. Serial / Batch No	12. Status / Work
001	SHAFT ASSY	3822077-4	N/A	000001	S/N N/A TRACE # 07590- 892821-001R	OVERHAULED

13. Remarks

REPAIR ORDER NUMBER: 892821-001
PART HAS BEEN WORKED AND INSPECTED IN ACCORDANCE WITH: MANUAL #: 49-23-49 REVISION: 15
REMARKS: INSP. CHECK /REPAIR, OVERHAUL, STRAIGHTEN, HAND FINISH, F.P.I., VISUAL, METAL SPRAY 1.0296-1.0300 DIA.,MACHINE .9996-1.0000 & 1.0456-1.0462 DIA'S TO SIZE,REPLACE COUPLING,CHASE DAMAGED THREADS.SPM 20-00-02 REV.6.

FOR JAA CUSTOMERS ONLY:
"THIS CERTIFIES THE WORK SPECIFIED IN BLOCK 12/13 WAS CARRIED OUT IN ACCORDANCE WITH JAR 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER JAA ACCEPTANCE CERTIFICATE NUMBER: JAA.4136"

14. Certifies the items identified above were manufactured in conformity to:	19	20. Authorized Signature	21. Approval Certificate No
☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13.	☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.	Charlene K. Hunt	ZN3R030M
15. Authorized Signature	16. Approval/Authorization No:		
17. Name (Typed or Printed)	18. Date (mm/dd/yy):	22. Name (Typed or Printed) CHARLENE K. HUNT	23. Date (mm/dd/yy): 09/06/03

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1 Approving National Aviation Authority / Country	2	3 Form Tracking Number
United States of America	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	Job # 231436

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Aero Propulsion Support, Inc. 108 Mac Drive Harrison, Ohio 45030	P/O # H22367

6 Item	7 Description	8 Part Number	9 Eligibility*	10 Quantity	11 Serial/Batch Number	12 Status/Work
	DESWIRL	3820110-2	N A	01	231436R	Overhauled

13 Remarks
Cleaned
Inc. visual & dimensional inspection
Weld repair
Braze
Dimensional restoration
Weld repair
F P I
Final visual & dimensional inspection

Specifications 49-22-15/AR01

Aero Propulsion Support Certifies that the work specified in block 12 13 was carried out in accordance with FAR 145 and in respect to that work the aircraft component is considered ready for release to service under FAA Acceptance Certificate Number 5233

14 Certifies the items identified above were manufactured in conformity to:

☐ Approved design data and are in a condition for safe operation

☐ Non-approved design data specified in Block 13

19 ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with *Title 14, Code of Federal Regulations*, part 43 and in respect to that work, the items are approved for *return to service*

15 Authorized Signature	16 Approval Authorization No.	20 Authorized Signature	21 Approval Certificate No.
			YCLR908L
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed)	23 Date (m/d/y)
		Brenda Sears	11/11/03

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

FAA Form 8130-3 (10-03)

*Installer must cross-check eligibility with applicable technical data

AERO PROPULSION SUPPORT, INC.

108 MAY DRIVE UNIT A

HARRISON, OHIO 45030

FAA CERTIFILD REPAIR STATION #YULR908L

WORK RELEASE CERTIFICATE

Chromalloy Arizona	NV458
CUSTOMER	**CUSTOMER WORK ORDER**
B22367	DESWIRL
CUSTOMER PURCHASE ORDER	***COMPONENT/UNIT NAME***
Honeywell	231436R
MANUFACTURER NAME	**LOT / SERIAL NUMBER**
3826110-2	1
MANUFACTURER PART NUMBER	**QUANTITY**

COMPONENT/UNIT DETAILS USED IN REPAIR/OVERHAUL/OR MANUFACTURE

QUANTITY:	N/A	**PART #:**	N/A	**DESCRIPTION:**	N/A
	N/A		N/A		N/A

DESCRIPTION OF WORK PERFORMED: Overhauled per the following:

Cleaned
Inc. visual & dimensional inspection
Weld repair
Braze
Dimensional restoration
Weld repair
F.P.I.
Final visual & dimensional inspection

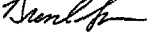
SPECIFICATIONS AND/OR TECHNICAL DATA:

49-22-15 AR01

THE COMPONENT IDENTIFIED HEREON WAS REPAIRED/OR MANUFACTURED AND INSPECTED IN ACCORDANCE WITH CURRENT SPECIFICATIONS. PERTINENT DETAILS OF REPAIR/OR MANUFACTURE ARE ON FILE AT THIS AGENCY UNDER:

CUSTOMER Chromalloy Arizona

APSI JOB NUMBER 231436

SIGNED  **Date:** 11/11/03

1. Approving National Aviation Authority/Country: FAA/UNITED STATES	2. **AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number: 07N3341624 -E1/228071/001

4. Organization: HONEYWELL INTERNATIONAL INC. UNIT 2-4 CHEVRON EATON RD., HEMEL HEMPSTEAD HERTFORDSHIRE HP2 7DR U.K.	Production Approval TSOA	5. Work Order/Contract/Invoice Number: 063060 EUN0228746 PO: B41368

6. Item	7. Description	8. Part Number	9. Eligibility *	10. Qty	11. Serial / Batch Number	12. Status / Work
1	BLANKET INSUL	3826184-5	N/A TSO	1	N/A	NEW

13. Remarks THIS FORM IS ISSUED AT UNIT 2-4 CHEVRON
EATON RD., HEMEL HEMPSTEAD HERTFORDSHIRE HP2 7DR U.K.
AS AUTHORIZED BY THE PRODUCTION APPROVAL HOLDER

SUPPLEMENT EXPORT: UNITED STATES OF AMERICA

ALL SERIALIZATION NOT REFERENCED IN BLOCK 11 OF THIS FORM IS NOT REQUIRED OR TRACEABLE BY HONEYWELL

Limited life parts must be accompanied by maintenance history including total time / total cycles / time since new.

14. Certifies the items identified above were manufactured in conformity to:
[X] Approved design data and are in a condition for safe operation.
[ ] Non-approved design data specified in Block 13.

19. [ ] 14 CFR 43.9 return to service [ ] Other regulation specified in Block 13.

Certifies that unless otherwise specified in Block 13 the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title14, Code of Federal Regulations: part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature	16. Approval/Authorization No.	20. Authorized Signature:	21. Approval/Certificate Number
	ODARF922216NM		
17. Name (typed or printed)	18. Date (mm/dd/yy):	22. Name (typed or printed)	23. Date (mm/dd/yy):
MELVIN J MORGAN	01/06/04		

User / Installer Responsibilities: It is important to understand that the existence of this document alone does not automatically constitute authority to install the part / component / assembly Where the user / installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the Airworthiness Authority of the country specified in block 1. Statements in block 14 and 19 do not constitute certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulation by the user/installer before the aircraft may be flown.

FAA Form 8130-3

*(Optional) Installer must cross check eligibility with applicable technical data.

1 Approving National Aviation Authority (country)	2	3 Form Tracking Number
United States of America	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	Job #: 240024

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Aero Propulsion Support, Inc. 108 Max Drive Harrison, Ohio 45030	PO 022049

6 Item	7 Description	8 Part Number	9 Eligibility*	10 Quantity	11 Serial/Batch Number	12 Status/Work
	Diffuser Assy, 1 Stage	3826230-1	N/A	01	240024R	Overhauled

13 Remarks

Cleaned
Inc. visual & dimensional inspection
Vane repair

Braze
Stud weld/Proofload
Weld repair

Disassembled
Assembled
Dimensional restoration

Applied coating
FPI
Final visual & dimensional inspection

Specifications DER # ELA-01-2021 Rev. 0

Aero Propulsion Support Certifies that the work specified in block 12 13 was carried out in accordance with JAR 145 and in respect to that work the aircraft component is considered ready for release to service under FAA Acceptance Certificate Number 5233

14 Certifies the items identified above were manufactured in conformity to:

☐ Approved design data and are in a condition for safe operation.

☐ Non-approved design data specified in Block 13

19 ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval Authorization No	20 Authorized Signature	21 Approval Certificate No.:
			YTLR968I
17 Name (Typed or Printed)	**18 Date (m/d/y)**	**22 Name (Typed or Printed):**	**23 Date (m/d/y)**
		Brenda Sears	02/06/04

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts, components, assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

FAA Form 8130-3 (6-01)

*Installer must cross-check eligibility with applicable technical data.

AERO PROPULSION SUPPORT, INC.

108 MAY DRIVE UNIT A

HARRISON, OHIO 45030

FAA CERTIFIED REPAIR STATION #YULR908L

WORK RELEASE CERTIFICATE

Chromalloy Arizona	CPS15293
CUSTOMER	**CUSTOMER WORK ORDER**
B22949	Diffuser Assy, 1 Stage
CUSTOMER PURCHASE ORDER	**COMPONENT/UNIT NAME**
Honeywell	240024R
MANUFACTURER NAME	**LOT / SERIAL NUMBER**
3826230-1	1
MANUFACTURER PART NUMBER	**QUANTITY**

COMPONENT/UNIT DETAILS USED IN REPAIR/OVERHAUL/OR MANUFACTURE

QUANTITY:	N/A	**PART #:**	N/A	**DESCRIPTION:**	N/A
	N/A		N/A		N/A

DESCRIPTION OF WORK PERFORMED: Overhauled per the following:

Cleaned
Inc. Visual & dimensional inspection
Vane repair
Braze
Studweld Proofload
Weld repair
Disassembled
Assembled
Dimensional restoration
Applied coating
F.P.I.
Final visual & dimensional inspection

SPECIFICATIONS AND/OR TECHNICAL DATA:

DER # EEA-01-2021 Rev. 0

THE COMPONENT IDENTIFIED HEREON WAS REPAIRED/OR MANUFACTURED AND INSPECTED IN ACCORDANCE WITH CURRENT SPECIFICATIONS. PERTINENT DETAILS OF REPAIR/OR MANUFACTURE ARE ON FILE AT THIS AGENCY UNDER:

CUSTOMER Chromalloy Arizona

APSI JOB NUMBER 240024

SIGNED _____ **Date:** 02/06/04

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	L0400532846

4. Organization Name and Address:		5. Work Order/Contract/Invoice Number:
Honeywell International, Inc. 1944 E. Sky Harbor Circle Phoenix, AZ 85034	PRODUCTION APPROVAL TSOA	H9VG71-G01 B23310 001

6. Item:	7. Description	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial / Batch No:	12. Status / Work:
001	HSG	3810127-1	N/A TSO	000001	N/A. NOTE: (All serialization not referenced here is not required or traceable by HONEYWELL INC. Reference FAA order 8130.21c)	NEW

13. Remarks:

THIS FORM IS ISSUED AT 1944 E. SKY HARBOR CIRCLE PHOENIX, AZ 85034 AS AUTHORIZED BY THE PRODUCTION APPROVAL HOLDER AIRWORTHINESS APPROVAL - PARTS.

14. Certifies the items identified above were manufactured in conformity to:

[X] Approved design data and are in a condition for safe operation.

[ ] Non-approved design data specified in Block 13.

19 [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No:	20. Authorized Signature.	21. Approval/Certificate No:
Susan Blake	ODARF60221GNM		
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
SUSAN BLAKE	03/01/04		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

*Installer must cross-check eligibility with applicable technical data.

NSN 0052-00-012-9005

Chromalloy AZ

ZEISS

Plan Name 3810127--1	Date March 8, 2004	
Drawing No. * drawingno *	Time 10:56:03 am	Order
Operator Master	CMM Q1754 Cal'd: 5/7/2003 Due: 5/7/2004	Incremental Part Number 1

	Actual	Nominal	Upper Tol.	Lower Tol.	Deviation
	Diameter_Datum B 4.6897	4.6894	0.0004	-0.0004	0.0003
	Diameter_H 3.1564	3.1564	0.0004	-0.0004	0.0000
	Diameter_L 1.7157	1.7160	0.0010	-0.0010	-0.0003

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	10004365

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
HONEYWELL INTERNATIONAL - ENGINES, SYSTEMS & SERVICES (TSO) P.O. BOX 52181 PHOENIX, AZ 850722181 c/o HARDWARE PRODUCT GROUP 1405 W. 240TH ST. HARBOR CITY, CA 90710	2773335 001

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	RETAINER BRG	3826160-2	TSO Article N/A	1 EA	Lot# 0309049668 MLot:1039	NEW
				5 EA	Lot# 0309049669 MLot:1039	
		***** CONTINUED *****		11 EA	Lot# 0401017715 MLot:11735	

13. Remarks: EXPORT. DIRECT SHIPMENT AUTHORIZATION.

NV515-1
NV511-1

Customer P.O. # B40256

It is hereby certified that (a) the parts and/or materials reflected herein were produced under Federal Aviation Administration approved manufacturing and quality control systems/methods as set forth in FAA Production Approval to manufacture issued to Honeywell International Inc. and (b) such parts and/or materials are in an airworthy condition. Direct ship authorization from the Production Approval Holder is on file.

14. Certifies the items identifed above were manufactured in conformity to:

- [X] Approved design data and are in a condition for safe operation.
- [ ] Non-approved design data specified in Block 13.

19. [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
Barry E. Franklin	ODARF602216NM		
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
Barry E. Franklin	01/22/04		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

CZ CHROMALLOY AZ

1. Approving National Aviation Authority Country	2.	3. Form Tracking Number
* FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	C401539 - 1

* 4. Organization Name and Address:	5. Work Order/Contract/Invoice Number
Advanced Materials Technologies, Incorporated, 2015 West Alameda Drive Tempe, Arizona 85282, (ZT3R036M)	B23249 RO#

6. Item	7. Description	8. Part Number	9. Eligibility *	10. Quantity	11. Serial/Batch Number	12. Status/Work
1	OIL TUBE ASSY.	3880168-1	N/A	1 EA	N/A / C401539	OVERHAULED

13. REMARKS:

INSPECTED AND OVERHAULED IN ACCORDANCE
WITH UNITED AIRLINES MANUAL
60-49-27-05/AR01, DATED 09/08/97 AND FAA
APPROVED DER ROUTING AMT-1751/97-53.

"CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12/13 WAS CARRIED OUT IN ACCORDANCE WITH JAR 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER JAA ACCEPTANCE CERTIFICATE NUMBER: JAA.4020."

14. Certifies the items identified above were manufactured in conformity to:

☐ Approved Design data and are in a condition for safe operation

☐ Non-Approved Design data specified in Block 13.

19. ☒ 14CFR 43.9 Return to Service ☒ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13 the work in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service

15. Authorized Signature	16. Approval/Authorization No.	20. Authorized Signature	21. Approval/Certificate No:
		Hala Baker	ZT3R036M
17. Name (Typed or Printed)	**18. Date(m/d/y)**	**22. Name (Typed or Printed)**	**23. Date (m/d/y)**
		Hala Baker	3/11/2004

USER / INSTALLER RESPONSIBILITIES:

It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part component assembly.

Where the user installer work in accordance with the national regulations of an Airworthiness Authority different than the Airworthiness Authority of the country specified in block 1, it is essential that the user installer work ensures that his/her Airworthiness Authority accepts parts components assemblies from the Airworthiness Authority of the country specified in block 1.

Statements in block 14 and 19 do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user installer before the aircraft may be flown.

* Installer must cross check eligibility with applicable technical data

1. Approving National Aviation Authority/Country: **FAA/United States**

2. # AUTHORIZED RELEASE CERTIFICATE
FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number: 07N3406083

4. Organization Name and Address:
Honeywell International, Inc.
1944 E. Sky Harbor Circle
Phoenix, AZ 85034

PRODUCTION APPROVAL
TSOA

5. Work Order/Contract/Invoice Number:
AL01092826
B41562

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial / Batch No:	12. Status / Work:
001	SHIELD RTNR OIL INL	3880170-3	N/A TSO	000004	N/A. NOTE: (All serialization not referenced here is not required or traceable by HONEYWELL INC. Reference FAA order 8130.21c)	NEW

13. Remarks:
THIS FORM IS ISSUED AT 1944 E. SKY HARBOR CIRCLE PHOENIX, AZ 85034 AS AUTHORIZED BY THE PRODUCTION APPROVAL HOLDER AIRWORTHINESS APPROVAL - PARTS.

14. Certifies the items identified above were manufactured in conformity to:
- [X] Approved design data and are in a condition for safe operation.
- [ ] Non-approved design data specified in Block 13.

19. [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13
Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature: Dan Baltus

16. Approval/Authorization No: ODARF602216NM

17. Name (Typed or Printed): DAN BALTUS

18. Date (m/d/y): 02/14/04

20. Authorized Signature:

21. Approval/Certificate No:

22. Name (Typed or Printed):

23. Date (m/d/y):

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

*Installer must cross-check eligibility with applicable technical data.

NSN:0052-00-012-9005

1. Approving National Aviation Authority/Country: **FAA/United States**

2. **AUTHORIZED RELEASE CERTIFICATE**
FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number: 07N3287699

4. Organization Name and Address:
Honeywell International, Inc.
1944 E. Sky Harbor Circle
Phoenix, AZ 85034

PRODUCTION APPROVAL
TSCA

5. Work Order/Contract/Invoice Number:
AL01051619
B41007

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial / Batch No:	12. Status / Work:
001	FUEL NOZ	3830054-9	14A TSO	000015	N/A. NOTE: (All serialization not referenced here is not required or traceable by HONEYWELL INC. Reference FAA order 8130.21c)	NEW

13. Remarks:
THIS FORM IS ISSUED AT 1944 E. SKY HARBOR CIRCLE PHOENIX, AZ 85034 AS AUTHORIZED BY THE PRODUCTION APPROVAL HOLDER AIRWORTHINESS APPROVAL - PARTS.

NV511-3

14. Certifies the items identified above were manufactured in conformity to:
[X] Approved design data and are in a condition for safe operation.
[ ] Non-approved design data specified in Block 13.

15. Authorized Signature: Joyce Albers

16. Approval/Authorization No: ODARF602216NM

17. Name (Typed or Printed): JOYCE ALBERS

18. Date (m/d/y): 10/09/03

19. [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13
Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

20. Authorized Signature:

21. Approval/Certificate No:

22. Name (Typed or Printed):

23. Date (m/d/y):

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority *different* than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1. Approving National Aviation Authority Country:	2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number:
FAA/UNITED STATES		96509

4. Organization Name and Address:

Ace Precision Machining Corporation
W146 N5714 Enterprise Ave
Menomonee Falls, WI 53051
FAA Repair Station #QAPR054K

5. Work Order/Contract/Invoice Number:

PO# B22046 Item 2

6. ITEM	7. DESCRIPTION	8. PART NUMBER	9. ELIGIBILITY:*	10. QUANITY:	11. BATCH/SERIAL NUMBER:	12. STATUS/WORK:
1	Heat Shield	3844268-3	N/A	1	96509	Overhaul

13. REMARKS

This Component has been fully repaired and inspected in accordance with current FAA regulations, manufacturers manuals, and work instructions for which this repair station is certified. Pertinent details of the repair are on file at this repair station under the work order indicated above

Auth Doc: 49-24-14/AR01 REV: 09/30/97
Replace bottom ring
Repair per United Airlines requirements

Auth Doc: IRM 49-23-49 REV: 15
Weld repair cracks
Size/straighten

Limited life parts must be accompanied by maintenance history including total time/total cycles/time since new.

14. Certifies the items identified above were manufactured in conformity to:

☐ Approved design data and are in a condition for safe operation.

☐ Non-approved design data specified in Block 13.

19

☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15. Authorized Signature:	16. Approval/Authorizatoin No.:	20. Authorized Signature:	21. Approval/CertificateNo.:
		Eric Wondolkowski	QAPR054K
17. Name (Typed or Printed)	18. Date (m/d/y)	22. Name (Typed or Printed):	23. Date (m/d/y):
		Eric Wondolkowski	9/23/2003

USER/INSTALLER RESPONSIBILITIES:

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in block 1. Statements in block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	974981-001

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
Honeywell International, Inc. 1944 E. Sky Harbor Circle Phoenix, AZ 85034 FAA CERTIFICATE #ZN3R030M	974981-001 974981-001

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial / Batch No:	12. Status / Work:
001	SEAL ASSY TURB	3844065-2	N/A	000001	S/N N/A TRACE # 03650-3877 R1	OVERHAULED

13. Remarks:

REPAIR ORDER NUMBER: 974981-001
PART HAS BEEN WORKED AND INSPECTED IN ACCORDANCE WITH: MANUAL #: 49-23-49 REVISION: 15
REMARKS: OVERHAUL SEAL ASSY. REPLACE DAMAGED CARBON SEAL.

FOR JAA CUSTOMERS ONLY:
"THIS CERTIFIES THE WORK SPECIFIED IN BLOCK 12/13 WAS CARRIED OUT IN ACCORDANCE WITH JAR 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER JAA ACCEPTANCE CERTIFICATE NUMBER: JAA.4136"

14. Certifies the items identified above were manufactured in conformity to:	19. ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13.	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.	
15. Authorized Signature	16. Approval/Authorization No:	20. Authorized Signature: Lewis Emmitt
		21. Approval/Certificate No: ZN3R030M
17. Name (Typed or Printed):	18. Date (m/d/y):	22. Name (Typed or Printed): LEWIS EMMITT
		23. Date (m/d/y): 02/10/04

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1. Authorized National Aviation Authority	2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number
FAA UNITED STATES		101616

4. Organization Name and Address

Ace Precision Machining Corporation
W146 N5714 Enterprise Ave.
Menomonee Falls, WI 53051
FAA Repair Station #QAPR054K

5. Work Order Contract Invoice Number

PO# B23287 Item 2

6. ITEM	7. DESCRIPTION	8. PART NUMBER	9. ELIGIBILITY*	10. QUANITY	11. BATCH/SERIAL NUMBER	12. STATUS/WORK
1	Support	3844009-1	N/A	1	101616	Overhaul

13. REMARKS

This component has been fully repaired and inspected in accordance with current FAA regulations, manufacturers manuals, and work instructions for which this repair station is certified. Pertinent details of the repair can be found at this repair station under the work order indicated above.

Auth Doc: EA-94-09 **REV: 10/29/01**
Replace top ring

Auth Doc: IRM 49-23-49 **REV: 15**
Inspect per IRM manual requirements

Limited life parts must be accompanied by maintenance history including total time/total cycles/time since new

14. Certifies the items identified above were manufactured in conformity to:

☐ Approved design data and are in a condition for safe operation.

☐ Non-approved design data specified in Block 13

19.

☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 14, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature	16. Approval/Authorization No	20. Authorized Signature	21. Approval/Certificate No:
			QAPR054K
17. Name (Typed or Printed):	18. Date (m/d/y):	22. Name (Typed or Printed): Jason Glocka	23. Date (m/d/y): 3/3/2004

USER/INSTALLER RESPONSIBILITIES:

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in block 1. Statements in block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations to the user/installer before the aircraft may be flown.

FAA Form 8130-3 (6-01) *Installer must cross-check eligibility with applicable technical data. NSN: 0052-00-012-9005

1. Approving National Aviation Authority (Name of State)	2.	3. Form Tracking Number
FAA UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	8F751-972
4. Organization Name and Address	CHROMALLOY ARIZONA 9161 W. Polk Street, Phoenix, AZ 85043	5. Work Order/Contract/Invoice Number 14822

6. Item	7. Description	8. Part Number	9. Eligibility *	10. Quantity	11. Serial/Batch Number	12. Status/Work
1	STAGE 1 TURBINE STATOR SUPPORT	3844007-1	N A	1	[illegible]	Overhauled

13. Remarks

WORK ORDER
The work described in block 12 was performed in accordance with:
IRM 49-23-49 Rev. 15, 09/29/2000
FAA DER APPROVAL No. DER-A089, 06/21/1999

Certifies that the work specified in block 12/13 was carried out in accordance with JAR 145 and with respect to that work the aircraft component is considered ready for release to service under JAA Acceptance Certificate Number: JAA.4325

14. Certified the item identified above were manufactured in conformity to:
[ ] approved design data and are in a condition for safe operation.
[ ] Non-approved design data specified in Block 13

19. [X] 14 CFR 43.9 Return to Service [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished with Title 14, Code of Federal Regulations, part 43 and in respect to the work, the items are approved for return to service.

15. Authorized Signature	16. Approval Authorization No:	20. Authorized Signature	21. Approval/Certificate No
		Patricia J Peterson	TR3D877L
17. Name (Typed or Printed)	**18. Date (mm/dd/yyyy)**	**22. Name (Typed or Printed)**	**23. Date (mm/dd/yyyy)**
		PATRICIA J PETERSON	01/06/2004

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part component assembly.

Where the user installer work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1 it is essential that the user-installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the airworthinessauthorities of the country specified in Block 1.

Statement(s) in Block 14 and 19 do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user installer before the aircraft may be flown.

*Installer must cross check eligibility with applicable technical data

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	L0400532862

4. Organization Name and Address:		5. Work Order/Contract/Invoice Number:
Honeywell International, Inc. 1944 E. Sky Harbor Circle Phoenix, AZ 85034	PRODUCTION APPROVAL TSOA	H9V091-001 B23292 001

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial / Batch No:	12. Status / Work:
001	SHROUD	3844008-1	N/A TSO	000001	N/A. NOTE: (All serialization not referenced here is not required or traceable by HONEYWELL INC. Reference FAA order 8130.21c)	NEW

13. Remarks:

THIS FORM IS ISSUED AT 1944 E. SKY HARBOR CIRCLE PHOENIX, AZ 85034 AS AUTHORIZED BY THE PRODUCTION APPROVAL HOLDER AIRWORTHINESS APPROVAL - PARTS.

14. Certifies the items identified above were manufactured in conformity to:

[X] Approved design data and are in a condition for safe operation.

[ ] Non-approved design data specified in Block 13.

19. [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No:	20. Authorized Signature:	21. Approval/Certificate No:
Susan Blake	ODARF602216NM		
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
SUSAN BLAKE	03/02/04		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

*Installer must cross-check eligibility with applicable technical data.

1. Appoving National Aviation Authority/Country: FAA/UNITED STATES	2. **AUTHORIZED RELEASE CERTIFICATE** FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number: B 22009
4. Organization Name and Address: Metal Fusion Inc. 425 Burlingame Avenue Redwood City, CA 94063		5. Work Order, Contract, or Invoice Number: INV 2316

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	strl	3844052-2	331.APM	1	NV 402	repair

13. Remarks

Part repaired per all FAA requirements
Also repaired + tested to meet
UAL spec 49-22-17/AR03,
MF 60-49-23-49-R1

14. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.	
15. Authorized Signature:	16. Approval Authorization No:	20. Authorized Signature:	21. Approval/Certificate No: CG-3R422L
17. Name (Typed or Printed):	18. Date (m/d/y):	22. Name (Typed or Printed): T Carrick	23. Date (m/d/y): 9-12-3

User/Installer Responsibilities

It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1 it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulation by the user/installer before the aircraft may be flown.

* Installer must cross check eligibility with applicable technical data

FROM:

METAL FUSION, INC.
425 Hurlingame Ave.
REDWOOD CITY, CA 94063
FAA Repair Station #CG3R422L
(650) 368-7692 Fax (650) 368-7691

INVOICE

2316

INVOICE DATE	SALESPERSON
BILL TO:	

SHIP TO:

QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL

COPY

Thank You

265-0333

431954

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	P/S NUMBER 8999
4. Organization Name and Address: COOK AIRTOMIC DIVISION (PQ2681CE-D) 2540 CENTENNIAL BLVD. JEFFERSONVILLE, INDIANA 47130		5.Work Order/Contract/Invoice Number: CONTRACT NUMBER SJ3NRY5

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1-1	PISTON RING	AIR22389	GTCP331-200A, AC, ER, 250F, H.	18	N/A	NEW

13. Remarks:

DOMESTIC ONLY

P.O. B41649

FAA-PMA

14. Certifies the items identified above were manufactured in conformity to:	19. ☐ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13
☒ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13.	Certifies that unless otherwise specified in block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
	DMIR CE500515		
17. Name (Typed or Printed):	18. Date (m/d/y):	22. Name (Typed or Printed):	23. Date (m/d/y):
JEROME D. BYE	02/24/04		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

FAA Form 8130-3 (6-01) *Installer must cross-check eligibility with applicable technical data. NSN: 0052-00-012-9005

Wencor Document #: 431954 Invoice #: 7898471 Your P.O. #: B41649

UNITED AIRLINES
E74 CMM INSPECTION

T&M60-492201 GTCP331 COMPRESSOR INLET HOUSING ASSY
MEASURED PER EID 49-22-01 INSP 00 JAN 30/97

ALWAYS REFER TO THE SPECIFICATION TO VERIFY TOLERANCES

OPERATOR NAME: PAUL FREVELE
IGT NUMBER: 671125
PART NUMBER: 3810259-3
SERIAL NUMBER: NONE

(in)	ACTUAL	NOMINAL	LO-TOL	HI-TOL	DEVIATION	GRAPHIC	ERROR
H(1) DIAMETER B							
CIRCLE:DIA_B							
Diameter	14.2291	14.2280	-0.0020	+0.0020	0.0011	--+-*-	
H(2) DIAMETER H							
CIRCLE:DIA_H							
Diameter	4.6905	4.6920	-0.0020	+0.0020	-0.0015	*-+---	
H(3) DIAMETER K							
A)							
CIRCLE:DIA_K							
Diameter	15.8667	15.8680	-0.0020	+0.0020	-0.0013	*-+---	
B)							
UNABLE TO MEASURE RUNOUT ON THE CMM.							
CIRCLE:DIA_K							
Concentricity	0.0015	0.0050,FA(ALIGN_B)				+*--	
H(4) DIAMETER N							
A)							
CIRCLE:DIA_N							
Diameter	12.2241	12.2260	-0.0020	+0.0020	-0.0019	*--+---	
B)							
UNABLE TO MEASURE RUNOUT ON THE CMM.							
CIRCLE:DIA_N							
Concentricity	0.0010	0.0050,FA(ALIGN_B)				+*--	
H(5) SURFACE A							

(in)	ACTUAL	NOMINAL	LO-TOL	HI-TOL	DEVIATION GRAPHIC	ERROR
PLANE:SURF_A						
Flatness	0.0015	0.0050			+*--	

Duration 47 mins 1 secs PASS in:7 out:0 End of Report

UNITED

PSEN446A-2
03/09/04
COAS BY SUBASSEMBLY

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
COA SCHEDULING REPORT
REASON: REMOVAL

REQUESTOR NAME: REMOVAL
ORGANIZATION:

WORK CENTER: 551

SERIAL NBR	ET	MT	NAME	PWR RTG	CUST
61913		V	APU331	200E	UA

ORDER
NUMBER
V518

COAS FOR MODULE TYPE N - SERIAL NUMBER P1375 MODULE NAME. POWER SECTION WORK CENTER: 551

COA NUMBER	COA CAT	MODULE/ FUNC NBR	UNIT SERIAL	UNIT COA STATUS	ISS	COMP	COA TITLE	COMPLETION DATE

*** NO COAS SCHEDULED FOR THIS UNIT ***

UNITED AIRLINES - MASTER ICS/BOM

Origination Date 3/12/2004

Effectivity 331-200ER APU Engine Manual - Inspection and Condition Sheet

TURBINE SCAVENGE OIL PUMP MODULE "SV" ALL PARTS CONTAINED WITHIN ARE NON HAZMAT

60-49-90-05-01 ICS

EON V518 ESN 61913 VADE # CUSTOMER UAL

MODULE ORDER # SV518

MODULE SERIAL #

DISPOSITION CODES:

E =	PART MEETS DETAIL PART EID REQUIREMENTS (ZERO TIME SINCE DETAIL PART INSPECTION)
A =	EXPOSED AREA OF PART MEETS VISUAL REQUIREMENTS OF APPROPRIATE EID (CONTINUED TIME SINCE DETAIL PARTS INSPECTION)
C =	PART ROUTED OR CORRECTIVE ACTION TAKEN
ATA# ___ = Function No.	EID NUMBER [49 precedes numbers shown) 49) 31-XX] SECTION / LIST - SEQUENCE NUMBER
EPM ___ = Function No.	STAMP TO INDICATE THAT PART HAS BEEN OFFLOGGED FROM MODULE FUNCTION NUMBER

INSPECTION NOTES

(STAMP OFF APPROPRIATE DISPOSITION CODE. MORE THAN ONE CODE MAY BE STAMPED.)
(INDICATE CONDITION OF UNSERVICEABLE PARTS REGARDLESS OF CONDITION.)
(TO CLEAR PARTS NOT EXPOSED DRAW A LINE THROUGH THE COMPLETE ENTRY AND STAMP IN LEFT MARGIN.)
(IF PART IS ROUTED ON AN R & R TAG IT IS MANDATORY TO STAMP THE APPLICABLE "E" "A" OR "C" BLOCK AND WRITE R & R IN THE "C" BLOCK THEN COMPLETE THE APPROPRIATE COMPUTER TRANSACTION.)
(ALL PARTS NEEDING REPAIR WILL HAVE AN IDENTIFICATION TAG WITH PART NUMBER, SERIAL NUMBER (IF APPLICABLE) AND THE QUANTITY, ATTACHED TO THE PART.)
(PARTS THAT DO NOT HAVE SPECIFIC EID'S WRITTEN FOR THEM MUST BE VISUALLY INSPECTED FOR GENERAL CONDITION PER 331-500 BOOK "0" 20-49-00-00, INTRODUCTION, SECTION 4, PARA A, STATEMENT 4.

MODULE INSPECTION GUIDE

(1) Module seperated from adjoining modules, inspected and found serviceable per EID 60-49-21-00-00 [ZERO (TSMI) No parts removed from module. No additional sign-off required.

I209A (2) Module partially or completely disassembled. Removed parts and / or exposed areas inspected per appropriate EID (ZERO TSDPI).

Control Date: 20031202

Turbine Scavenge Oil Pump "SV " mod/ I & C Sheet page 2 of 5 **Revision Date** 3/17/2004 **Name** [redacted]

						CAZ SHIP TO DATE	CAZ RET DATE	MODULE ORDER #
APU S/N	61913	TSLV	06075	EON	V518			SV518
Total Time	18599	CSLV	06550	P.O.	S306133			MODULE SERIAL #
Total Cycles	20796			Date Rcvd.	03/09/04			

Inspection Use Only					Hardware Info					Stores Use			
E	A	C	OFF-LOG FUNC #	COND/ROUTING	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
I209A			5784		SHAFT DRIVE (SV)	692225	265-0157	90-05-05 55-70	1		0		
I209A			5782		RETAINER ROTOR (SV)	692231	265-0158	90-05-04 55-50	1				
I209A			5785		GEAR SPUR (SV)	3881106-1	265-0144	90-05-05 55-80	1		0		
I209A			5779		HSG ASSY/ THICK (SV)	3881105-1	265-3199	90-05-02 55-020	1				
I209A			5780		ROTOR SET/THICK (SV)	3881149-1	265-3358	90-05-03 55-030	1				
		I209A	5779	NOTE TO CAZ:REPAIR THIS PART ONLY. DO NOT PROCURE NEW. REPLACE WITH THICK.	HSG ASSY/ THIN (SV)	3880161-1	265-3327	90-05-02 55-020	1		1		
I209A			5780	NOTE TO CAZ:REPAIR THIS PART ONLY. DO NOT PROCURE NEW. REPLACE WITH THICK.	ROTOR SET/ THIN (SV)	3881149-2	265-0159	90-05-03 55-030	1				
I209A			5781		PLATE COVER (SV)	3881150-1	265-0156	90-05-04 55-040	1				

331-200ER "SV" MODULE

NON EID PARTS BILL OF MATERIAL PARTS ONLY

EFF 331-200ER

APU S/N	61913	EON	V518
		P.O.	S306133

CAZ SHIP TO DATE

CAZ RET DATE

MODULE ORDER # SV518

MODULE SERIAL #

Hardware information							Stores Use			
COMMENT	IPC LOCATION	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
100% ROUTE TO CAZ										

HISTORY PAGE

CAZ Qty Total =

ENTER REASON FOR REVISION

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	34825

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
Ohlinger Industries, Incorporated 1211 West Melinda Lane, Phoenix, AZ 85027 FAA Repair Station No. OHRR712K	B23109

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work
1	HOUSING PUMP SCR.	3881105-1	N/A	1	SN: N/A LN712K-034825R	OVERHAULED

13. Remarks: FPI. R-R DISCREPANT HARDWARE: 49-90-05/AR01 AND AR02

WORK ACCOMPLISHED PER HONEYWELL MANUAL 49-23-49 REV. 15. SERVICE BULLETIN N/A. WORK ORDER, 34825
WORK ACCOMPLISHED AND/OR SUPERVISED BY: JIM DAVIS
OHLINGER INDUSTRIES INC CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12 AND 13 WAS PERFORMED IN ACCORDANCE WITH JAR 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER JAA ACCEPTANCE CERTIFICATE NUMBER 4708

14. Certifies the items identified above were manufactured in conformity to:	19. ☒ 14 CFR 43.9 Return To Service ☒ Other Regulation Specified in Block 13
☐ Approved design data and are in condition for safe operation. ☐ Non-approved design data specified in block 13.	Certifies that unless otherwise specified in block 13, the work identified in block 12 and described in block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
		Ruben G Martinez	OHRR712K
17. Name (typed or printed):	**18. Date:**	**22. Name (typed or printed):**	**23. Date:**
		RUBEN G. MARTINEZ	02/13/04

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in block 1.

Statements in block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

* Installer must cross check eligibility with applicable technical data

UNITED AIRLINES - MASTER ICS/BOM

Effectivity 331-200ER APU Engine Manual - Inspection and Condition Sheet

Origination Date: 3/12/2004

GEARBOX MODULE "AV " ALL PARTS CONTAINED WITHIN ARE NON HAZMAT

60-49-26-01-00 ICS

MODULE ORDER # AV518

MODULE SERIAL # P698

EON V518 | ESN 61913 | VADE # | CUSTOMER UAL

DISPOSITION CODES:

E =	PART MEETS DETAIL PART EID REQUIREMENTS (ZERO TIME SINCE DETAIL PART INSPECTION)
A =	EXPOSED AREA OF PART MEETS VISUAL REQUIREMENTS OF APPROPRIATE EID (CONTINUED TIME SINCE DETAIL PARTS INSPECTION)
C =	PART ROUTED OR CORRECTIVE ACTION TAKEN
ATA# = S/L - SEQ	EID NUMBER [49 precedes numbers shown (49) 31-XX] SECTION / LIST - SEQUENCE NUMBER
EPM = FUNC #	STAMP TO INDICATE PART OFF-LOG FROM MODULE FUNCTION NUMBER

INSPECTION NOTES

(STAMP OFF APPROPRIATE DISPOSITION CODE. MORE THAN ONE CODE MAY BE STAMPED.)
(INDICATE CONDITION OF UNSERVICEABLE PARTS REGARDLESS OF CONDITION.)
(TO CLEAR PARTS NOT EXPOSED DRAW A LINE THROUGH THE COMPLETE ENTRY AND STAMP IN LEFT MARGIN.)
(IF PART IS ROUTED ON AN R & R TAG IT IS MANDATORY TO STAMP THE APPLICABLE "E" "A" OR "C" BLOCK AND WRITE R & R IN THE "C" BLOCK THEN COMPLETE THE APPROPRIATE COMPUTER TRANSACTION.)
(ALL PARTS NEEDING REPAIR WILL HAVE AN IDENTIFICATION TAG WITH PART NUMBER, SERIAL NUMBER (IF APPLICABLE) AND THE QUANTITY, ATTACHED TO THE PART.)
(PARTS THAT DO NOT HAVE SPECIFIC EID'S WRITTEN FOR THEM MUST BE VISUALLY INSPECTED FOR GENERAL CONDITION PER 331-500 BOOK "0" 20-49-00-00, INTRODUCTION, SECTION 4, PARA A, STATEMENT 4.

MODULE INSPECTION GUIDE

(1) Module seperated from adjoining modules, inspected and found serviceable per EID 60-49-21-00-00 [ZERO (TSMI) No parts removed from module. No additional sign-off required.

(2) Module partially or completely disassembled. Removed parts and / or exposed areas inspected per appropriate EID (ZERO TSDPI).

Control Date: 20031203

Gearbox mod "AV " I & C Sheet page 2 of 7 **Revision Date** 3/12/2004 **Name** [redacted]

APU S/N	61913	TSLV	06075	EON	V518
Total Time	18599	CSLV	06550	P.O.	S306133
Total Cycles	20796			Date Rcvd.	03/09/04

CAZ SHIP TO DATE | CAZ RET DATE

MODULE ORDER # AV518

MODULE SERIAL # P698

Inspection Use Only					Hardware Info					Stores Use			
E	A	C	OFF-LOG FUNC #		Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
			5642	100%	BEARING FAN IDLER	358024	245-0395	26-00-01 01-410	2		2		
			5643	100%	BEARING OIL PUMP	358027	245-0397	26-00-01 01-420	2		2		
			5644	100%	BEARING HI SPEED PINION	3860158-1	265-0258	26-00-01 01-430	2		2		
			5645	100%	BEARING GEN IDLER	3860173-1	265-0263	26-00-01 01-440	2		2		
			5646	100%	BEARING ROLLER GEN	3605094-1	265-4339	26-00-01 01-450	2		2		
			5647	100%	BEARING IDLER	358457-1	245-0399	26-00-01 01-460	2		2		
			9267	100%	BEARING BALL OUTER RACE	3860496-1	265-3161	26-00-01 01-490	1		1		
			EPM 0987	SPUN BEARINGS	HOUSING ASSY	3862699-3	265-3164	26-02-00 01-300	1		1		
			EPM 0987		~~HOUSING ASSY~~	~~3862219-7~~	~~265-0499~~	~~26-02-00 01-300~~	1				
			2233		GEAR ASSY OIL PUMP	3860165-2	265-0260	26-03-00 01-120	1				
			2230		GEAR GENERATOR IDLE	3860181-1	265-0265	26-04-00 01-160	1				
			2229		GEAR ASSY SPUR	3860182-2	265-3080	26-05-00 01-130	1				
			2231		GEARSHAFT GEN DRIVE	3860180-6	265-0264	26-06-00 01-200	1				
			2237		GEAR FAN IDLER	3860169-5	265-0120	26-08-00 01-140	1				
			5637		JET OIL	3862187-1	265-0136	26-10-00 01-250	1				
			5628		TUBE	3613699-1	265-3171	26-11-00 01-080	1				
			5636		TUBE	3862182-1	265-0135	26-11-00 01-240	1				

Gearbox mod "AV" I & C Sheet page 3 of 7

APU S/N	61913	EON	V518
		P.O.	S306133

CAZ SHIP TO DATE

CAZ RET DATE

MODULE ORDER # AV518

MODULE SERIAL # P698

Inspection Use Only					Hardware Info					Stores Use			
E	A	C	OFF-LOG FUNC #	COND/ROUTING	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
			5627		TUBE	3862185-3	265-0496	26-11-00 01-070	1				
			5638		TUBE	3862550-1	265-0137	26-12-00 01-260	1				
I342			5625		JET	3862444-2	265-3057	26-13-00 01-050	1				
I342			5624	DO NOT SHIP TO CAZ-UAL STOCKED	JET	3862140-5	265-0273	26-13-00 01-040	1				
I342			5626	DO NOT SHIP TO CAZ-UAL STOCKED	JET	3862140-4	265-0272	26-13-00 01-060	1				
			5633		TUBE TRANSFER	3862226-4	265-0501	26-14-00 01-210	1				
			2232		GEAR HI SPEED PINION	3860166-1	265-0261	26-16-00 01-150	1				
I342			5622		HOUSING FILLER	3862385-1	265-3192	26-21-00 01-020	1				
			5788		HOUSING GEN SCAVENGE	3880205-3	265-0313	90-02-01 60-000	1				
			5791	SPALLED	GEAR SPUR	3880204-2	265-3139	90-02-03 60-030	1		1		
			5792	WORN	GEARSHAFT	3880326-10	265-3076	90-02-03 60-040	1		1		
			5793	WORN	GEARSHAFT	3880326-11	265-3077	90-02-03 60-050	1		1		

Gearbox mod "AV " I & C Sheet page 4 of 7 **(LV PARTS)**

APU S/N	61913	EON	V518
		P.O.	S306133

CAZ SHIP TO DATE

CAZ RET DATE

MODULE ORDER # AV518

MODULE SERIAL # P698

Inspection Use Only					Hardware Info					Stores Use			
E	A	C	OFF-LOG FUNC #	COND/ROUTING	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
			5641		~~BEARING BALL~~ STRTR GEAR (LV)	3860160-1	265-0259	26-00-01 / 05-020	1		1		
			9266		BEARING INNER RACE (LV)	3860495-1	265-3155	26-00-01 / 05-030	1		1		
			5649		BEARING BALL (LV)	892576-1	265-3646	26-00-01 / 05-050	1		1		
			5648		BEARING BALL SPLINED SHFT (LV)	3614423-1	265-0598	26-00-01 / 05-090	1		1		
			5634		GEAR (LV) STARTER DRIVE	~~3860168-2~~	265-3058	26-07-00 / 05-040	1				
			5640		CLUTCH ONE-WAY (LV)	3611304-1	265-3090	26-07-01 / 05-080	1		1		
			5639		PLUG (LV) STARTER DRIVE	3600053-1	285-0429	26-07-02 / 05-050	1				
			5635		SHAFT SPLINE (LV)	3868023-1	265-3091	26-07-03 / 05-070	1				
			5635		SHAFT SPLINE (LV)	DEC31-041 -501	265-3091	26-07-03 / 05-070	1				
			5706		~~ADAPTER STRTR~~ CLUTCH ASSY (LV)	3612120-1	265-3154	26-07-04 / 05-010	1				
				DISASSEMBLE	LRU CLUTCH ASSY	3612844-1	265-3153		1				

NON EID PARTS BILL OF MATERIAL PARTS ONLY

331-200ER "AV" MODULE

EFF 331-200ER

Gearbox mod "AV " I & C Sheet page 6 of 7

APU S/N	61913	EON	V518
		P.O.	S306133

CAZ SHIP TO DATE

CAZ RET DATE

MODULE ORDER # AV518

MODULE SERIAL # P698

Hardware Info

COMMENT	IPC LOCATION	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	Stores Use: UAL QTY	Stores Use: CAZ QTY	Stores Use: UAL/CAZ INITIAL	Stores Use: UAL RECV
	49-11-01A-001A-402	WASHER SPRING	352723-10	285-0131		1				
WORN	49-26-00A-000C-090	WASHER SPRING	352723-53	265-0416		1		1		
	49-26-00A-000D-096	AIR OIL SEPARATOR	3610862-1	265-3086		1				
100% REPLACEMENT	49-26-00A-000A-190	WASHER TENSION	3610875-2	265-3653		1		1		
	49-26-00A-000C-050	RETAINER	3612363-1	265-3162		1				
	49-26-00A-000C-080	RETAINER	3862133-1	265-0267		1				
	49-26-00A-000C-030	RETAINER	3862135-1	265-0268		1				
	49-26-00A-000C-020	RETAINER	3862136-1	265-0269		1				
	49-26-00A-000C-070	RETAINER	3862183-1	265-0281		1				
	49-26-00A-000B-060	RETAINER	3862184-1	265-0282		1				
	49-26-00-001-110	CAP & ADAPTER	428-259	265-3602		1				
100%	49-90-00A-000B-130	SEAL ASSY ENCASED	3880267-1	265-0319		1		1		
		PLUG MAG	P201	265-0338		2				

HISTORY PAGE

CAZ Qty Total =

ENTER REASON FOR REVISION

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	34267

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
Ohlinger Industries, Incorporated 1211 West Melinda Lane, Phoenix, AZ 85027 FAA Repair Station No. OHRR712K	B22670

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work
1	HSNG. ASSY. GEARBOX	3862699-3	N/A	1	SET 1L-2034	OVERHAULED

13. Remarks: FPI, R-R DISCREPANT HARDWARE DER 712K00-022 DATED 11/17/00
SLEEVE DISCREPANT P/M BORES, CHEMFILM
WELD, METAL SPRAY

WORK ACCOMPLISHED PER HONEYWELL MANUAL 49-23-49 REV. 15, 49-26-02/AR02 SERVICE BULLETIN N/A, WORK ORDER, 34267
WORK ACCOMPLISHED AND/OR SUPERVISED BY: JIM DAVIS
OHLINGER INDUSTRIES INC CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12 AND 13 WAS PERFORMED IN ACCORDANCE WITH JAR 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER JAA ACCEPTANCE CERTIFICATE NUMBER 4708.

14. Certifies the items identified above were manufactured in conformity to:

☐ Approved design data and are in condition for safe operation.

☐ Non-approved design data specified in block 13.

19. ☒ 14 CFR 43.9 Return To Service ☒ Other Regulation Specified in Block 13

Certifies that unless otherwise specified in block 13, the work identified in block 12 and described in block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
		Ruben G Martinez	OHRR712K
17. Name (typed or printed):	**18. Date:**	**22. Name (typed or printed):**	**23. Date:**
		RUBEN G. MARTINEZ	12/17/03

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in block 1.

Statements in block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1 Approving National Aviation Authority
FAA/United States

2

AUTHORIZED RELEASE CERTIFICATE
FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3 Form Tracking Number

4 Organization Name and Address

5 Work Order/Contract/Invoice Number

6 Item	7 Description	8 Part Number	9 Quantity	10 Status/Work	11 Serial Number	12 Remarks
1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

13 Remarks

[illegible] DIRECT SHIPMENT AUTHORIZED.

Customer P.O. # B-1130.

It is hereby certified that all parts and/or materials received herein were produced under Federal Aviation Administration approved manufacturing and quality control systems as set forth in Part Production Approval for manufacture issued to Honeywell International Inc. and all such parts and/or materials are in an airworthy condition. Direct ship authorization from the Production Approval Holder on file.

14 Certifies that the work identified in item 11 was performed in accordance with the:

☒ Approved design data and is in a condition for safe operation.

☐ Maintenance and/or alterations performed - Block 15.

15 ☐ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 15

Certified items in new condition identified in Block 11 and work identified in Block 12 was performed in accordance with 14 CFR Part 43. Except for deviations listed in Block 15 and except as noted in Block 12, the work was approved for return to service.

16 Authorized Signature

17 Name (Typed or Printed)

Barry E. Frank [illegible]

18 Approval Authorization No.

[illegible]6003F

19 Date (mm/dd/yy)

[illegible]

20 Authorized Signature

21 Name (Typed or Printed)

22 Date (mm/dd/yy)

23 Approval Certificate No.

User/Installer Responsibilities

It is important to understand that the certification block on this document alone does not automatically constitute authority to install the part in an aircraft.

Where the user/installer performs work in accordance with the operational regulations of the airworthiness authority of the country specified in Block 1, it is the responsibility of the user/installer to ensure that the work has been approved for release to service by an authorized person and that this release to service is acceptable to the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 15 do not constitute installation certification. In all cases, the ultimate responsibility for the acceptability of the installation and certification rests with the user/installer before the aircraft is returned to flight.

FAA form 8130-3 (6-01) Installer must retain original or legible copy of this document for a minimum of two years. NSN 0052-00-018-9020

1. Approving National Aviation Authority/Country: FAA/United States

2

AUTHORIZED RELEASE CERTIFICATE

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3 Form Tracking Number: 8112290

4 Organization Name and Address: HONEYWELL INTERNATIONAL ENGINES, [illegible] (7500)
P.O. BOX 101
PHOENIX, AZ 85001-2181
C/O HANDMADE PRODUCTS (MSM)
1445 W. 154TH ST.
GARDENA, CA 90249

5 Work Order/Contract/Invoice Number: 2613798 005

6 Item	7 Description	8 Part Number	9 Eligibility*	10 Quantity	11 Serial/Batch Number	12 Status/Work
1	BEARING	3B3027	10A Article N/A	1 Ea.	Batch: 2130351-10 12 per kit 1221	NEW
		****** L A S T I T E M ******				

13 Remarks: IMPORT. DIRECT SHIPMENT AUTHORIZATION.

Customer P.O. # 841102

It is hereby certified that (a) the parts and/or materials reflected herein were produced under Federal Aviation Administration approved manufacturing and quality control systems/methods as set forth in FAA Production Approval to manufacture issued to Honeywell International Inc. and (b) such parts and/or materials are in an airworthy condition. Direct ship authorization from the Production Approval Holder is on file.

14 Certifies that items identified above were manufactured in conformity to:
- [X] Approved design data and are in a condition for safe operation
- [ ] Non-approved design data specified in Block 13

19 [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13

Certifies except as otherwise specified in Block 13 the work identified in Block 11 and described in Block 13 was accomplished in accordance with Title 14 "Code of Federal Regulations, part 145 as to that work the items are approved for return to service.

15 Authorized Signature: Barry E. Franklin

16 Approval/Authorization No: ODAR#60221-NM

17 Name (Typed or Printed): Barry E. Franklin

18 Date (m/d/y): 10/27/03

20 Authorized Signature

21 Approval/Certificate No.

22 Name (Typed or Printed)

23 Date (m/d/y)

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness different than the airworthiness authority of the country specified in Block 3, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

FAA form 8130-3 (6-01)

*Installer must cross-check eligibility with applicable technical data.

NSN 0052-00-160-0002

1. Approving National Aviation Authority/Country	2.	3. From Tracking Number:
FAA/United States	**AIRWORTHINESS RELEASE CERTIFICATE** FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	60 86840

4. Organizations Name and Address:	4. Work Order/Contract/ Invoice Number:
Timken Aerospace Services (PBC), 336 Mechanic Street, Lebanon NH 03766 (USA)	8005426/B23331

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10 Quantity:	11. Serial/Batch Number:	12 Status/Work:
1	BEARING	3605094-1	N/A	ONE	UA04 S1998-222	Overhauled

13. REMARKS:

Work was performed in accordance with: TAS RSUAL 49-20-01/AR02

14. Certifies the items identified above were manufactured in conformity to:	19. ☒ 14 CFR 43.9 Return to Service Other regulation specified in Block 13
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies, that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature	16. Approval/Authorization No.	20. Authorized Signature:	21. Certificate Number:
		RJ Barnum	QPBR408K
17. Name (typed or printed)	18. Date (m/d/yy)	22. Name (typed or printed): RJ Barnum	23. Date (m/d/yy) March 8, 2004

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with national regulations by the user/installer before the aircraft may be flow.

1. Approving National Aviation Authority/Country	2.	3. From Tracking Number:
FAA/United States	**AIRWORTHINESS RELEASE CERTIFICATE** FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	60 86843

4. Organizations Name and Address:	4. Work Order/Contract/ Invoice Number:
Timken Aerospace Services (PBC), 336 Mechanic Street, Lebanon NH 03766 (USA)	8005426/B23408

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10 Quantity:	11. Serial/Batch Number:	12 Status/Work:
1	BEARING	3605094-1	N/A	ONE	UA04 S1998-223	Overhauled

13. REMARKS:

Work was performed in accordance with: TAS RSUAL 49-20-01/AR02

14. Certifies the items identified above were manufactured in conformity to:	19. ☒ 14 CFR 43.9 Return to Service Other regulation specified in Block 13
☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13	Certifies, that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No:	20. Authorized Signature:	21. Certificate Number:
		RJ Barnum	QPBR408K
17. Name (typed or printed):	18. Date (m/d/yy)	22. Name (typed or printed): RJ Barnum	23. Date (m/d/yy) March 10, 2004

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with national regulations by the user/installer before the aircraft may be flow.

B41244

1. Approving National Aviation Authority/Country:	2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number:
FAA/United States		845705

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
HONEYWELL INTERNATIONAL - ENGINES, SYSTEMS & SERVICES (TSO) P.O. BOX 52181 PHOENIX, AZ 85072181 c/o HARDWARE PRODUCT GROUP 1405 W. 240TH ST. HARBOR CITY, CA 90710	2681064 003

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	BEARING	358457-1	TSO Article N/A	1 EA	Lot# 0311015509 MLot:PS. 021430	NEW
				7 EA	Lot# 0311027576 MLot:PS. 021457	
		****** L A S T I T E M ******				

13. Remarks: EXPORT. DIRECT SHIPMENT AUTHORIZATION. NV504-1

Customer P.O. # B41244

It is hereby certified that (a) the parts and/or materials reflected herein were produced under Federal Aviation Administration approved manufacturing and quality control systems/methods as set forth in FAA Production Approval to manufacture issued to Honeywell International Inc. and (b) such parts and/or materials are in an airworthy condition. Direct ship authorization from the Production Approval Holder is on file.

14. Certifies the items identified above were manufactured in conformity to:

[X] Approved design data and are in a condition for safe operation.

[ ] Non-approved design data specified in Block 13.

19. [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
Barry E. Franklin	ODARF602216NM		
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
Barry E. Franklin	12/01/03		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

B41244

1. Approving National Aviation Authority/Country:	2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number:
FAA/United States		845705

4. Organization Name and Address: HONEYWELL INTERNATIONAL - ENGINES, SYSTEMS & SERVICES (TSO)
P.O. BOX 52181
PHOENIX, AZ 850722181
c/o HARDWARE PRODUCT GROUP
1405 W. 240TH ST.
HARBOR CITY, CA 90710

5. Work Order/Contract/Invoice Number: 2681064 003

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	BEARING	358457-1	TSO Article N/A	1 EA 7 EA	Lot# 0311015509 MLot:PS. 021430 Lot# 0311027576 MLot:PS. 021457	NEW
		****** LAST ITEM ******				

13. Remarks: EXPORT. DIRECT SHIPMENT AUTHORIZATION. NV504-1

Customer P.O. # B41244
It is hereby certified that (a) the parts and/or materials reflected herein were produced under Federal Aviation Administration approved manufacturing and quality control systems/methods as set forth in FAA Production Approval to manufacture issued to Honeywell International Inc. and (b) such parts and/or materials are in an airworthy condition. Direct ship authorization from the Production Approval Holder is on file.

14. Certifies the items identifed above were manufactured in conformity to:
- [X] Approved design data and are in a condition for safe operation.
- [ ] Non-approved design data specified in Block 13.

15. Authorized Signature:	16. Approval/Authorization No.:	17. Name (Typed or Printed):	18. Date (m/d/y):
Barry E. Franklin	ODARF602216NM	Barry E. Franklin	12/01/03

19. [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13
Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

20. Authorized Signature:	21. Approval/Certificate No.:	22. Name (Typed or Printed):	23. Date (m/d/y):

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1. Approving National Aviation Authority/Country:	2. **AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number:
FAA/United States		10019402

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
HONEYWELL INTERNATIONAL - ENGINES, SYSTEMS & SERVICES (TSO) P.O. BOX 52181 PHOENIX, AZ 850722181 c/o HARDWARE PRODUCT GROUP 1405 W. 240TH ST. HARBOR CITY, CA 90710	2853639 001

6. Item	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	BEARING	368024	TSO Article N/A	4 EA	Lot# 0402022021 MLot:60491672	NEW
		****** LAST ITEM ******				

13. Remarks: EXPORT. DIRECT SHIPMENT AUTHORIZATION. 40511-2

Customer P.O. # B41654
It is hereby certified that (a) the parts and/or materials reflected herein were produced under Federal Aviation Administration approved manufacturing and quality control systems/methods as set forth in FAA Production Approval to manufacture issued to Honeywell International Inc. and (b) such parts and/or materials are in an airworthy condition. Direct ship authorization from the Production Approval Holder is on file.

14. Certifies the items identifed above were manufactured in conformity to:

[X] Approved design data and are in a condition for safe operation.

[ ] Non-approved design data specified in Block 13.

19. [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
Barry E. Franklin	GDARF602216NM		
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
Barry E. Franklin	02/24/04		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

*Installer must cross-check eligibility with applicable technical data.

NSN:0052-00-012-9005

Honeywell

HONEYWELL
HARDWARE PRODUCT GROUP
1405 W 240TH ST
HARBOR CITY, CA 90710

REFERENCE NO. 7046664 PAGE 1

PURCHASE ORDER NO B41654

CERTIFICATE OF CONFORMANCE

CUSTOMER CODE 3281

CUSTOMER RELEASE NO

SOLD TO:
CHROMALLOY ARIZONA
ATTN: ACCOUNTS PAYABLE
5161 W. POLK STREET
PHOENIX AZ 85043

SHIP TO:
CHROMALLOY ARIZONA
ATTN: RECEIVING
5150 W. VAN BUREN ST.
PHOENIX AZ 85043

SALES ORDER NO 2853639

ITEM NO	QUANTITY SHIPPED	U/M	PART NUMBER / DESCRIPTION	Manufacturer Lot#	HPG Lot#
1 ***	4.00	EA	358024 BEARING QTY: 4 MFG. NAME : Honeywell REV LEVEL : E CONTROL NO.: 7046664	60491672	0402022021

End of Certificate

*** Items are supplied under direct ship authority and (a) were produced by approved manufacturing and quality control systems/methods as set forth in the applicable FAA Production Approval (PC413, TSOA or PMA) issued to Honeywell International Inc. and (b) are new and in airworthy condition.

This is to certify that all articles delivered on this order conform to all applicable blueprint and specification requirements. Evidence of such is on file with us and our suppliers subject to examination.

HONEYWELL - HARDWARE PRODUCT GROUP

David Thornhill

Quality Assurance Director

1. Approving National Aviation Authority/Country	2.	3. From Tracking Number:
FAA/United States	**AIRWORTHINESS RELEASE CERTIFICATE** FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	60 86843

4. Organizations Name and Address:	4. Work Order/Contract/ Invoice Number:
Timken Aerospace Services (PBC), 336 Mechanic Street, Lebanon NH 03766 (USA)	8004606/B23408

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10 Quantity:	11. Serial/Batch Number:	12 Status/Work:
1	BEARING	3860173-1	N/A	ONE	UA03 S1998-334	Overhauled

13. REMARKS:

Work was performed in accordance with: TAS RSUAL 49-20-01/AR02

14. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13.	19. ☒ 14 CFR 43.9 Return to Service Other regulation specified in Block 13 Certifies, that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.	
15. Authorized Signature	16. Approval/Authorization No	20. Authorized Signature: RJ Barnum	21. Certificate Number: QPBR408K
17. Name (typed or printed)	18. Date (m/d/yy)	22. Name (typed or printed): RJ Barnum	23. Date (m/d/yy) March 10, 2004

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with national regulations by the user/installer before the aircraft may be flow.

1. Approving National Aviation Authority/Country	2.	3. From Tracking Number:
FAA/United States	**AIRWORTHINESS RELEASE CERTIFICATE** FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	60 86843

4. Organizations Name and Address:	4. Work Order/Contract/ Invoice Number:
Timken Aerospace Services (PBC), 336 Mechanic Street, Lebanon NH 03766 (USA)	8004606/B23408

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10 Quantity:	11. Serial/Batch Number:	12 Status/Work:
1	BEARING	3860173-1	N/A	ONE	UA03 S1998-333	Overhauled

13. REMARKS:

Work was performed in accordance with: TAS RSUAL 49-20-01/AR02

14. Certifies that the items identified above were manufactured in conformity to: ☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13	19. ☒ 14 CFR 43.9 Return to Service Other regulation specified in Block 13 Certifies, that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.	
15. Authorized Signature	16. Approval/Authorization No:	20. Authorized Signature:	21. Certificate Number: QPBR408K
17. Name (typed or printed)	18. Date (m/d/yy):	22. Name (typed or printed): RJ Barnum	23. Date (m/d/yy) March 10, 2004

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with national regulations by the user/installer before the aircraft may be flow.

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	10002920

4. Organization Name and Address: HONEYWELL INTERNATIONAL - ENGINES, SYSTEMS & SERVICES (TSO)
P.O. BOX 52181
PHOENIX, AZ 850722181
c/o 'HARDWARE PRODUCT GROUP
1405 W. 240TH ST.
HARBOR CITY, CA 90710

5. Work Order/Contract/Invoice Number: 2773069 006

6. Item	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	BEARING	3860496-1 ****** LAST ITEM ******	TSO Article N/A	13 EA	Lot# 0310057965 MLot:PS. 121817	NEW

13. Remarks: EXPORT. DIRECT SHIPMENT AUTHORIZATION. AV-565-1

Customer P.O. # B41443
It is hereby certified that (a) the parts and/or materials reflected herein were produced under Federal Aviation Administration approved manufacturing and quality control systems/methods as set forth in FAA Production Approval to manufacture issued to Honeywell International Inc. and (b) such parts and/or materials are in an airworthy condition. Direct ship authorization from the Production Approval Holder is on file.

14. Certifies the items identified above were manufactured in conformity to:

[X] Approved design data and are in a condition for safe operation.

[ ] Non-approved design data specified in Block 13.

19. [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
Barry E. Franklin	ODARF602216NM		
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
Barry E. Franklin	01/20/04		

User/Installer Responsibilities

It is important to understand that the existence of this document alone *does not automatically constitute* authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness *different than the airworthiness* authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her *airworthiness authority* accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 & 19 do not *constitute installation certification.* In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the ***national regulations by*** the user/installer before the aircraft may be flown.

*Installer must cross-check eligibility with applicable technical data.

NSN:0052-00-012-9005

1. Approving National Aviation Authority/Country	2.	3. From Tracking Number:
FAA/United States	**AIRWORTHINESS RELEASE CERTIFICATE** FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	86193

4. Organizations Name and Address:	5. Work Order/Contract/Invoice Number:
Timken Aerospace Services (PBC), 336 Mechanic Street, Lebanon NH 03766 (USA)	B22409/8005065

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10 Quantity:	11. Serial/Batch Number:	12 Status/Work:
1	BEARING	3860158-1	N/A	ONE	UA03 S1998-470	Overhauled

13. REMARKS:

Work was performed In-Accordance With: TAS RSUAL 49-20-01/ AR02

14. Certifies the items identified above were manufactured in conformity to:	19. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13
☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13.	Certifies, that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No:	20. Authorized Signature:	21. Certificate Number:
		Belinda J. Butterfield	QPBR408K
17. Name (typed or printed):	18. Date (m/d/yy)	22. Name (typed or printed):	23. Date (m/d/yy)
		Belinda J. Butterfield	October 22, 2003

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with national regulations by the user/installer before the aircraft may be flow.

1. Approving National Aviation Authority/Country	2.	3. From Tracking Number:
FAA/United States	**AIRWORTHINESS RELEASE CERTIFICATE** FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	86193

4. Organizations Name and Address:	5. Work Order/Contract/Invoice Number:
Timken Aerospace Services (PBC), 336 Mechanic Street, Lebanon NH 03766 (USA)	B22409/8005065

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10 Quantity:	11. Serial/Batch Number:	12 Status/Work:
1	BEARING	3860158-1	N/A	ONE	UA03 S1998-471	Overhauled

13. REMARKS:

Work was performed In-Accordance With: TAS RSUAL 49-20-01/ AR02

14. Certifies the items identified above were manufactured in conformity to:	19. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13
☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13.	Certifies, that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No:	20. Authorized Signature:	21. Certificate Number:
		Belinda J. Butterfield	QPBR408K
17. Name (typed or printed):	**18. Date (m/d/yy)**	**22. Name (typed or printed):**	**23. Date (m/d/yy)**
		Belinda J. Butterfield	October 22, 2003

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with national regulations by the user/installer before the aircraft may be flow.

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	859841

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
HONEYWELL INTERNATIONAL - ENGINES, SYSTEMS & SERVICES (TSO) P.O. BOX 52181 PHOENIX, AZ 850722181 C/O HARDWARE PRODUCT GROUP 1405 W. 240TH ST. HARBOR CITY, CA 90710	2741434 002

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	WASHER SPR CPRS	352723-53 ****** L A S T I T E M ******	TSO Article N/A	1 EA	Lot# 0308047635 MLot:59478	NEW

13. Remarks: EXPORT. DIRECT SHIPMENT AUTHORIZATION.

Customer P.O. # B41370

It is hereby certified that (a) the parts and/or materials reflected herein were produced under Federal Aviation Administration approved manufacturing and quality control systems/methods as set forth in FAA Production Approval to manufacture issued to Honeywell International Inc. and (b) such parts and/or materials are in an airworthy condition. Direct ship authorization from the Production Approval Holder is on file.

14. Certifies the items identified above were manufactured in conformity to:

[X] Approved design data and are in a condition for safe operation.

[ ] Non-approved design data specified in Block 13.

19. [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
Angelina Penaloza	ODARF602216NM		
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
Angelina Penaloza	01/05/04		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

*Installer must cross-check eligibility with applicable technical data.

NSN:0052-00-012-9005

Honeywell

HONEYWELL
HARDWARE PRODUCT GROUP
1405 W. 240TH ST
HARBOR CITY, CA 90710

REFERENCE NO. 23281504 PAGE 1

PURCHASE ORDER NO B41370

CERTIFICATE OF CONFORMANCE

CUSTOMER CODE 3281

CUSTOMER RELEASE NO

SOLD TO
CHROMALLOY ARIZONA
ATTN: ACCOUNTS PAYABLE
5161 W. POLK STREET
PHOENIX AZ 85043

SHIP TO
CHROMALLOY ARIZONA
ATTN: RECEIVING
5150 W. VAN BUREN ST.
PHOENIX AZ 85043

SALES ORDER NO 3741434

ITEM NO	QUANTITY SHIPPED	U/M	PART NUMBER / DESCRIPTION	Manufacturer Lot#	HPG Lot#
1 ***	1.00	EA	352723-53 WASHER SPR CPRS QTY: 1 MFG. NAME : Honeywell REV LEVEL : CH	59478	0308047635

End of Certificate

*** Items are supplied under direct ship authority and (a) were produced by approved manufacturing and quality control systems/methods as set forth in the applicable FAA Production Approval (PC413, TSOA or PMA) issued to Honeywell International Inc. and (b) are new and in airworthy condition.

This is to certify that all articles delivered on this order conform to all applicable blueprint and specification requirements. Evidence of such is on file with us and our suppliers subject to examination.

HONEYWELL - HARDWARE PRODUCT GROUP

David Thornhill

Quality Assurance Director

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	9941135032603

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
AeroControlex Group, Transdigm Inc. 4223 Monticello Blvd., Cleveland, Ohio 44121 (FAA PMA PQ2093CE)	20488

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	GEAR	3880204-2	Boeing 767-200, -300, -300F, -400ER, 757-200, -200PF, -200CB, -300, Airbus Industrie A310-221, -203, -204, A310-322, -324, -304, -325, A300, Model B4-601, B4-603, B4-620, B4-605R, B4-622R, F4-605R, F4-622R	8	N/A	NEW

13. Remarks:

AIRWORTHINESS PART APPROVAL – THIS IS NOT AN EXPORT APPROVAL.

PART NUMBER SHOWN IN BLOCK 8 IS ELIGIBLE FOR INSTALLATION IN AEROCONTROLEX PMA PART NO. 3880200-6

14. Certifies the items identified above were manufactured in conformity to:

☒ Approved design data and are in a condition for safe operation.
☐ Non-approved design data specified in Block 13.

19. ☐ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
Calvin Shaw	DMIR410154CE		
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
Calvin Shaw	March 26, 2003		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	- 995585102103

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
AeroControlex Group, Transdigm Inc. 4223 Monticello Blvd., Cleveland, Ohio 44121 (FAA PMA PQ2093CE)	23577

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	GEARSHAFT ASSY	3880326-11	Boeing 767-200, -300, -300F, -400ER, 757-200, -200PF, -200CB, -300, Airbus Industrie A310-221, -203, -204, A310-322, -324, -304, -325, A300 Model B4-601, B4-603, B4-620, B4-605R, B4-622R, F4-605R, F4-622R	1	N/A	NEW

13. Remarks:

AIRWORTHINESS PART APPROVAL – THIS IS NOT AN EXPORT APPROVAL.

PART NUMBER SHOWN IN BLOCK 8 IS ELIGIBLE FOR INSTALLATION IN AEROCONTROLEX PMA PART NO. 3880200-6

14. Certifies the items identified above were manufactured in conformity to:

☒ Approved design data and are in a condition for safe operation.

☐ Non-approved design data specified in Block 13.

19. ☐ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
	DMIR410154CE		
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
Calvin Shaw	October 21, 2003		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

AERO CONTROLEX GROUP

TRANS DIGM

26380 Curtiss Wright Parkway
P.O. Box 44210
Richmond Hts., OH 44143 0210
(216) 289 8900
Fax (216) 261 8025
FAA CRS #A3R423J

DATE SHIPPED
PIECES
OF LBS
B/L #

SOLD TO

SHIP TO

CUSTOMER NUMBER	PURCHASE ORDER NUMBER	ORDER #	ORDER DATE	SHIP VIA

LINE NUMBER	PACK CODE	LOCATION	ITEM NUMBER	QUANTITY ORDERED	UNIT MEASURE	QUANTITY SHIPPED	QUANTITY BACK ORDERED
						1	4

DO NOT WRITE BELOW THIS LINE

CERTIFICATE OF CONFORMANCE

AUTHORIZED SIGNATURE

TransDigm Inc
Aero Controlex Group

WE HEREBY CERTIFY THAT THE PARTS ON THIS SHIPMENT HAVE BEEN INSPECTED AND FOUND TO MEET ALL APPLICABLE PRINTS, MATERIAL, PROCESSING AND HEAT TREATING SPECIFICATIONS THAT REPORTS COVERING ALL MATERIAL USED IN THE MANUFACTURE OF THESE PARTS AND/OR MATERIAL ARE ON FILE SUBJECT TO EXAMINATION AND BEARING CONFORMANCE WITH APPLICABLE SPECIFICATION REQUIREMENTS.

FORM #172

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	995940111703

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
AeroControlex Group, Transdigm Inc. 4223 Monticello Blvd., Cleveland, Ohio 44121 (FAA PMA PQ2093CE)	24046

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	GEARSHAFT ASSY	3880326-10	Boeing 767-200, -300, -300F, -400ER, 757-200, -200PF, -200CB, -300, Airbus Industrie A310-221, -203, -204, A310-322, -324, -304, -325, A300, Model B4-601, B4-603, B4-620, B4-605R, B4-622R, F4-605R, F4-622R	3	N/A	NEW

13. Remarks:

AIRWORTHINESS PART APPROVAL – THIS IS NOT AN EXPORT APPROVAL.

PART NUMBER SHOWN IN BLOCK 8 IS ELIGIBLE FOR INSTALLATION IN AEROCONTROLEX PMA PART NO. 3880200-6

B41106

14. Certifies the items identified above were manufactured in conformity to:

☒ Approved design data and are in a condition for safe operation.
☐ Non-approved design data specified in Block 13.

19. ☐ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
Calvin Shaw	DMIR410154CE		
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
Calvin Shaw	November 17, 2003		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

INDUSTRIAL BEARING SALES, Inc.

Aircraft Parts Div.
Ph. (925) 376-0923
Fax (925) 377-9835
25017 Viking • Hayward, CA 94545

SUBJECT: Evidence Of Airworthiness/Certificate Of Conformance

For Part # IU67AGSPS

Reference Your P.O. # B 40212 Our Invoice #20548

"It Is Hereby Certified That The Items Of Materials Covered By This Document Have Been Inspected And Tested And Conform To The Approved Specifications Relative Thereto And Are Airworthy." "This Is Substaintiated Either By Our Own Inspection And Test, Or By Satisfactory Documentary Evidence From The Original Source Of Supply."

Jerold Benjamin Manager

JOB #16511-21/0425789501

UNITED

PSEN446A-2
03/09/04
COAS BY SUBASSEMBLY

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
COA SCHEDULING REPORT
REASON: REMOVAL

REQUESTOR NAME: REMOVAL
ORGANIZATION:

WORK CENTER: 551

SERIAL NBR	ET	MT	NAME	PWR RTG	CUST
61913		V	APU331	200E	UA

ORDER NUMBER
V518

COAS FOR MODULE TYPE A - SERIAL NUMBER P698 MODULE NAME: GEARBOX ASSMBLY WORK CENTER: 551

COA NUMBER	COA CAT	MODULE/ FUNC NBR	UNIT SERIAL	UNIT COA STATUS	ISS	COMP	COA TITLE	COMPLETION DATE

*** NO COAS SCHEDULED FOR THIS UNIT ***

UNITED AIRLINES - MASTER ICS/BOM

Effectivity 331-200ER APU Engine Manual - Inspection and Condition Sheet

LOAD COMPRESSOR MODULE "FV " ALL PARTS CONTAINED WITHIN ARE NON HAZMAT

60-49-25-00-00 ICS

Origination Date 3/12/2004

MODULE ORDER # FV518

MODULE SERIAL # P1372

EON V518 ESN 61913 VADE # CUSTOMER UAL

DISPOSITION CODES:

E =	PART MEETS DETAIL PART EID REQUIREMENTS (ZERO TIME SINCE DETAIL PART INSPECTION)
A =	EXPOSED AREA OF PART MEETS VISUAL REQUIREMENTS OF APPROPRIATE EID (CONTINUED TIME SINCE DETAIL PARTS INSPECTION)
C =	PART ROUTED OR CORRECTIVE ACTION TAKEN
ATA# ____ = S/L - SEQ	EID NUMBER [49 precedes numbers shown (49) 31-XX] SECTION / LIST - SEQUENCE NUMBER
EPM ____ = FUNC #	STAMP TO INDICATE PART OFF-LOG FROM MODULE FUNCTION NUMBER

INSPECTION NOTES

(STAMP OFF APPROPRIATE DISPOSITION CODE. MORE THAN ONE CODE MAY BE STAMPED.)
(INDICATE CONDITION OF UNSERVICEABLE PARTS REGARDLESS OF CONDITION.)
(TO CLEAR PARTS NOT EXPOSED DRAW A LINE THROUGH THE COMPLETE ENTRY AND STAMP IN LEFT MARGIN.)
(IF PART IS ROUTED ON AN R & R TAG IT IS MANDATORY TO STAMP THE APPLICABLE "E" "A" OR "C" BLOCK AND WRITE R & R IN THE "C" BLOCK THEN COMPLETE THE APPROPRIATE COMPUTER TRANSACTION.)
(ALL PARTS NEEDING REPAIR WILL HAVE AN IDENTIFICATION TAG WITH PART NUMBER, SERIAL NUMBER (IF APPLICABLE) AND THE QUANTITY, ATTACHED TO THE PART.)
(PARTS THAT DO NOT HAVE SPECIFIC EID'S WRITTEN FOR THEM MUST BE VISUALLY INSPECTED FOR GENERAL CONDITION PER 331-500 BOOK "0" 20-49-00-00, INTRODUCTION, SECTION 4, PARA A, STATEMENT 4.

MODULE INSPECTION GUIDE

(1) Module seperated from adjoining modules, inspected and found serviceable per EID 60-49-21-00-00 [ZERO (TSMI) No parts removed from module. No additional sign-off required.

(2) Module partially or completely disassembled. Removed parts and / or exposed areas inspected per appropriate EID (ZERO TSDPI).

Control Date: 20031203

Revision Date 3/25/2004 Name [redacted]

						CAZ SHIP TO DATE	CAZ RET DATE	MODULE ORDER #
APU S/N	61913	TSLV	06075	EON	V518			FV518
Total Time	18599	CSLV	06550	P.O.	S306133			MODULE SERIAL #
Total Cycles	20796			Date Rcvd.	03/09/04			P1372

Inspection Use Only					Hardware Info					Stores Use			
E	A	C	OFF-LOG FUNC #	COND/ROUTING	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
			5719	100%	BEARING THRUST	3613827-1	265-3238	20-01-01 35-020	1		1		
			5746	100%	BEARING ROLLER	3822099-1	265-0462	20-01-01 18-320	1		1		
			5718	100%	CARBON SEAL ASSY	3611175-1	265-0037	20-02-00 35-010	2		2		
			5672	FRETTED	RETAINER BRG	3826160-2	265-0471	22-02-00 18-070	1		1		
			EPM 0988	DISASSEMBLE	IGV ASSY	3810231-21	265-3012	25-02-00 25-000	1				
			0992	WORN AEREADABLE	BRG HOUSING	3810187-2	265-0049	25-03-00 18-190	1		1		
			2251		COUPLING & SEAL	3822060-2	265-0590	25-04-00 18-160	1				
			2275	TORN	SOUND ATTEN INSERT	DEC31-011 -501	265-3072	25-05-01 18-095	1		1		
			1227	DETERIORATED	SHIELD INSULATOR	3826680-1	265-3186	25-07-01 18-015	1		1		
			5680	DIA B OS	BACK SHRD ASSY	3825141-7	265-0593	25-08-00 18-010	1		1		
			2280	WORN	SCROLL HSG	3826140-5	265-0592	25-09-00 18-060	1		1		E74
			2239	WORN BUSHING	BELLCRANK	3826527-1	265-3087	25-10-00 18-120	1		1		
			2274	WORN BUSHING	MOUNT IGV ACT	3826154-1	265-0084	25-11-00 18-130	1		1		
			0990	FOD	DIFFUSER	3826282-1	265-0213	25-13-00 18-050	1		1		
			2272	DIA D OS SB2999	HSG INLET	3810176-7	265-3073	25-15-00 18-100	1		1		
			EPM 0989		IMPELLER	3822080-3	265-0059	25-19-00 18-150	1	1			E74

Load Compressor mod "FV " I & C Sheet page 3 of 8

APU S/N	61913	EON	V518
		P.O.	S306133

CAZ SHIP TO DATE

CAZ RET DATE

MODULE ORDER # FV518

MODULE SERIAL # P1372

Inspection Use Only					Hardware Info					Stores Use			
E	A	C	OFF-LOG FUNC #	COND/ROUTING	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
			0991		SHAFT	3822062-2	265-0459	25-20-00 18-200	1				
			2247	LIDRIV A2247DAB66	CARRIER SEAL	3826125-1	265-0075	25-21-00 18-220	1				
			2248		CARRIER SEAL	3826127-1	265-0076	25-22-00 18-210	1				
			5687		SEAL ROTOR	3822091-1	265-3325	25-23-00 18-170	1				
			2271		CARRIER BRG	3826120-2	265-0072	25-32-00 18-040	1				
			5754		COVER IGV	3826251-2	265-0483	25-38-00 05-150	1				
			5755		BRACKET IGV	3826227-1	265-0442	25-39-00 50-160	1				

NON EID PARTS BILL OF MATERIAL PARTS ONLY

331-200ER "FV" MODULE

EFF 331-200ER

APU S/N	61913	EON	V518
		P.O.	S306133

CAZ SHIP TO DATE

CAZ RET DATE

MODULE ORDER # FV518

MODULE SERIAL # P1372

Hardware information							Stores Use			
COMMENT	IPC LOCATION	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
	49-25-00A-000D-125	ROD CONNECT	3826153-2	265-0664		1				
Hose	49-25-00A-000A-220 49-25-00A-000K-030	BEARING ROD	137-542 -9501	265-3020		2		2		
	49-25-00A-000D-085	BEARING ROD	MSSE3AR HMR3M	265-3020		2				
	49-22-00A-000D-025 49-22-00A-000E-315	NUT WASHER	3822056-1	265-0051		1				
	49-22-00A-000D-190 49-25-00A-000E-055	WASHER THRUST	3826152-1	265-0087		1				
	49-22-00A-000D-170 49-25-00A-000E-075	RETAINER SEAL	3826153-1	265-0088		1				
	49-25-00A-000A-180 49-27-00A-000C-420	SHAFT ACT	3826158-1	265-0086		1				
	49-25-00A-000E-285	RETAINER	3826226-1	265-0038		1				
	49-25-00A-000A-090	TUBE OIL	3880125-1	265-0141		1				
	49-10-00A-000G-265 49-25-00A-000A-045	TUBE OIL XFER	3881051-1	265-3217		1				
1009	49-22-00A-000D-200 49-25-00A-000E-255	ROTOR CARBON SEAL	DEC31-167 -501	265-0456		2		2		
	49-25-00A-000E-265	RETAINER SEAL	3826130-1	N/S		1				
	49-25-00A-000E-275	WASHER SPRING	352723-48	265-0033		1				
	49-22-00A-000D-180 49-25-00A-000E-065	WASHER SPRING	352723-50	265-0034		1				
	49-25-00A-000E-115	NUT, SHAFT	3822073-1	N/S		1				

APU S/N	61913	EON	V518
		P.O.	S306133

CAZ SHIP TO DATE

CAZ RET DATE

MODULE ORDER # FV518

MODULE SERIAL # P1372

Hardware information							Stores Use			
COMMENT	IPC LOCATION	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV

HISTORY PAGE

ENTER REASON FOR REVISION

CAZ Qty Total =

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	904822-001

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
Honeywell International, Inc. 1944 E. Sky Harbor Circle Phoenix, AZ 85034 FAA CERTIFICATE #ZN3R030M	904822-001 904822-001

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial / Batch No:	12. Status / Work:
001	BEARING RLR	3822099-1	N/A	000001	GR03 09100-677 TRACE # 09100- N/A	OVERHAULED

13. Remarks:

REPAIR ORDER NUMBER: 904822-001
PART HAS BEEN WORKED AND INSPECTED IN ACCORDANCE WITH: MANUAL #: 49-23-49 REVISION: 15
ORI: T30904

FOR JAA CUSTOMERS ONLY:
"THIS CERTIFIES THE WORK SPECIFIED IN BLOCK 12/13 WAS CARRIED OUT IN ACCORDANCE WITH JAR 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER JAA ACCEPTANCE CERTIFICATE NUMBER: JAA.4136"

14. Certifies the items identified above were manufactured in conformity to:	19. ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No:	20. Authorized Signature:	21. Approval/Certificate No:
			ZN3R030M
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
		ERUCE BREKKE	12/08/03

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/component/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

*Installer must cross-check eligibility with applicable technical data.

NSN 0052-00-012-9005

1. Approving National Aviation Authority/Country	2. AIRWORTHINESS RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	3. From Tracking Number:
FAA/United States		86155

4. Organizations Name and Address:	5. Work Order/Contract/Invoice Number:
Timken Aerospace Services (PBC), 336 Mechanic Street, Lebanon NH 03766 (USA)	B22362/8005055

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10 Quantity:	11. Serial/Batch Number:	12 Status/Work:
1	BEARING	3613827-1	N/A	ONE	UA03 S1998-441	Overhauled

13. REMARKS:

Work was performed In-Accordance With: TAS RSUAL 49-20-01/ AR02

14. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13.	19. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13 Certifies, that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No:	20. Authorized Signature:	21. Certificate Number:
			QPBR408K
17. Name (typed or printed):	18. Date (m/d/yy)	22. Name (typed or printed): RJ Barnum	23. Date (m/d/yy) October 20, 2003

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with national regulations by the user/installer before the aircraft may be flow.

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	WO #115331

4. Organization Name and Address:
BRITT METAL PROCESSING, INC. 15800 N.W. 49TH AVE MIAMI, FLORIDA 33014
DP4R136M

5. Work Order/Contract/Invoice Number:
PO#B23219

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	SCROLL HOUSING AS SY., GTCP331 DRIV	3826140-5	TBV by installer	1	BMP #82592	OVERHAULED

13. Remarks:
OVERHAULED I.A.W. MANUAL 49-23-49 REV. 15, SEE BMP-144 FORM
OTHER APPROVALS-->FAA 9201081
CERTIFIES WORK IN BLOCK 12/13 WAS CARRIED OUT I.A.W. JAR 145 REGULATION AND ARE READY FOR RELEASE TO SERVICE UNDER JAA ACCEPTANCE CERTIFICATE # JAA 4279

14. Certifies the items identified above were manufactured in conformity to:

☐ Approved design data and are in condition for safe operation.

☐ Non-approved design data specified in Block 13.

19. [X] 14 CFR 43.9 Return to Service [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
			DP4R136M
17. Name (Typed or Printed):	**18. Date:**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
		GERMAN H. VANEGAS	02/28/04

User/Installer Responsibilities

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Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

Chromalloy AZ

ZEISS

Plan Name
3826140-5

Date
March 4, 2004

Drawing No.
* drawingno *

Time
9:23:52 am

Order
115331

Operator
Master

CMM
Q1754
Cal'd: 5/7/2003 Due: 5/7/2004

Incremental Part Number
1

	Actual	Nominal	Upper Tol.	Lower Tol.	Deviation
	Diameter -B-				-|
	15.56198	15.56200	0.00100	-0.00100	-0.00004
	-A- to Surface C				|—
	1.12245	1.11900	0.00400	0.00000	0.00345
	-A- to Surface H				—|
	1.12678	1.13100	0.00500	-0.00500	-0.00422
	Flatness -A-				|-
	0.00035	0.00000	0.00500		0.00035
	Diameter_AN				—|
	16.03950	16.04100	0.00250	-0.00250	-0.00150
	True Position_AN .002 at mmc				|—
	0.00131	0.00000	0.00200	0.00200	0.00131
	Profile at 0°				|XXX>
	0.00439	0.00000	0.00300	-0.00300	0.00291
	Profile at 60°				|XXX>
	0.00482	0.00000	0.00300	-0.00300	0.00286
	Profile at 120°				0.00022
	0.00532	0.00000	0.00300	-0.00300	0.00322
	Profile at 180°				0.00053
	0.00539	0.00000	0.00300	-0.00300	0.00353

Plan Name	Operator	Time	Date
3826140-5	Master	9:23:52 am	March 4, 2004

	Actual	Nominal	Upper Tol.	Lower Tol.	Deviation
	Profile at 240°				|XXX>
	0.00448	0.00000	0.00300	-0.00300	0.00293
	Profile at 300°				|XXX>
	0.00392	0.00000	0.00300	-0.00300	0.00239
	Diameter_M				
	5.70736	5.71300	0.00000		-0.00564

Chromalloy AZ

ZEISS

Plan Name 3826140-5 side 2	Date March 4, 2004	
Drawing No. * drawingno *	Time 9:59:48 am	Order 115331
Operator Master	CMM Q1754 Cal'd: 5/7/2003 Due: 5/7/2004	Incremental Part Number 1

	Actual	Nominal	Upper Tol.	Lower Tol.	Deviation
	Diameter_AP				
	6.21975	6.22100	0.00300	-0.00300	-0.00125

ZEISS

Calypso
3.8.04.07

Chromalloy AZ

Date	March 4, 2004
Order	115331
Department	
Operator	Master
Signature:	

Part Number
1

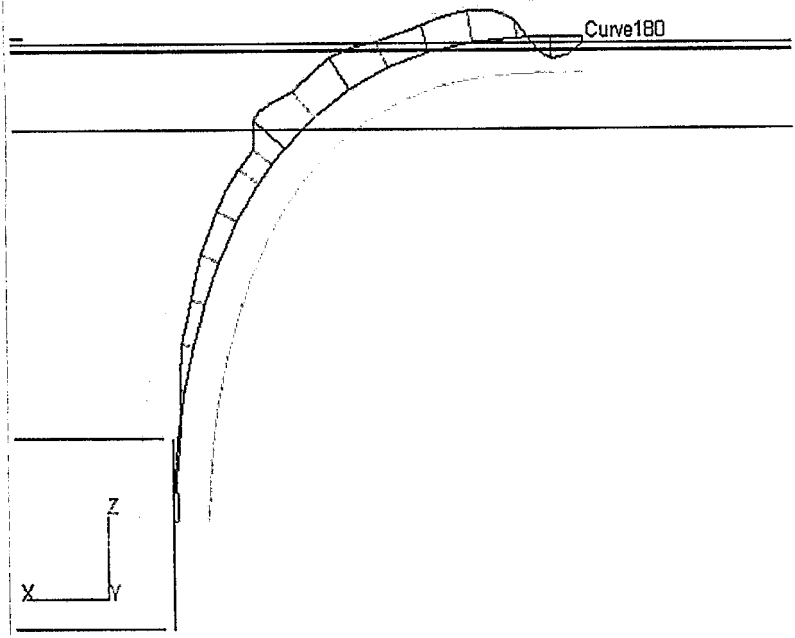
CMM
CONTURA

Drawing No.
* drawingno *

Plan Name
3826140-5

Profile at 180°

X = 0.00000
Y = 0.00000
Z = 0.00000
zoom = 50



0.3 inch

No	Identifier	Actual	Tol.	Points	Speed	PrRadius	F.Typ	L-C	UPR
1	Profile at 180°	0.00539	0.00300	20		0.15753			

ZEISS

Calypso
3.8.04.07

Chromalloy AZ

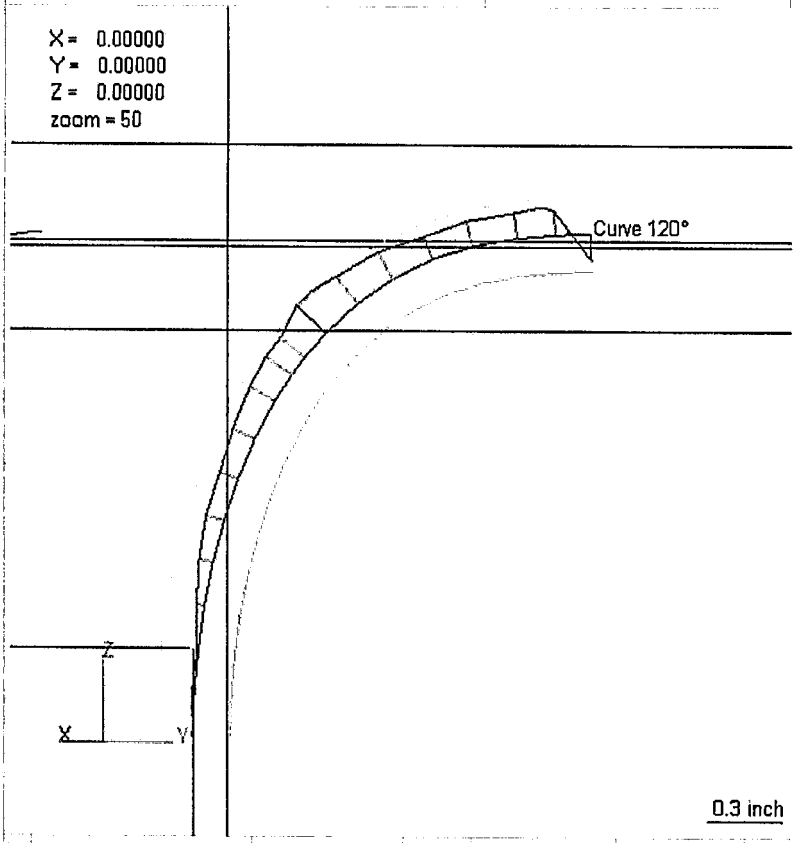
Date	March 4, 2004
Order	115331
Department:	
Operator	Master
Signature:	

Part Number 1	CMM CONTURA	Drawing No. * drawingno *

Plan Name
3626140-5

Profile at 120°

X = 0.00000
Y = 0.00000
Z = 0.00000
zoom = 50



0.3 inch

No	Identifier	Actual	Tol	Points	Speed	PtRadius	F.Typ	L-C	UPR
1	Profile at 120°	0.00532	0.00300	20		0.15753			

UNITED AIRLINES
E74 CMM INSPECTION

TC# 60-492509 GTCP331-200 SCROLL HOUSING
PER EID 49-25-09 03/30/00

ALWAYS REFER TO THE SPECIFICATION TO VERIFY TOLERANCES

OPERATOR NAME: PAUL FREVELE
LOT NUMBER: 624960
PART NUMBER: 3826140-5
SERIAL NUMBER: NONE

(in)	ACTUAL	NOMINAL	LO-TOL	HI-TOL	DEVIATION	GRAPHIC	ERROR
(H1) DIAMETER B							
CIRCLE:DIAMB							
Diameter	15.5624	15.5660	-0.0050	+0.0000	-0.0036	--*+--	
(H2) DIAMETER AH							
CIRCLE:DIAMAH							
X-axis	0.0001	0.0000			0.0001		
Y-axis	0.0003	0.0000			0.0003		
Diameter	16.0396	16.0415	-0.0025	+0.0025	-0.0019	-*-+--	
TruePosition2D	0.0006	0.0020				+*--	
(H3) DIAMETER AP							
CIRCLE:AP							
Diameter	6.2194	6.2210	-0.0030	+0.0030	-0.0016	-*-+--	
(H4) DIAMETER M							
CIRCLE:DIAMM							
Diameter	5.7077	5.7050	-0.0010	+0.0000	0.0027	--*+---	
(H5) SURFACE C							
POINT:D8							
Z-axis	-1.1216	-1.1190	-0.0100	+0.0000	-0.0026	---+*--	
(H6) SURFACE H							
POINT:C14							
Z-axis	-1.1264	-1.1260	-0.0100	+0.0000	-0.0004	----+--*	
(H7) PROFILE OF SURFACE J							
PROFILE OF SURFACE J AT 0 DEG							
POINT:PT1A							
Surf-Profile	-0.0009		-0.0030	+0.0030	-0.0009	+-*+---	
POINT:PT2A							
Surf-Profile	-0.0016		-0.0030	+0.0030	-0.0016	-*-+---	

(in)	ACTUAL	NOMINAL	LO TOL	HI TOL	DEVIATION	GRAPHIC	ERROR
POINT:PT3A Surf-Profile	0.0001		-0.0030	+0.0030	0.0001	---*---	
POINT:PT4A Surf-Profile	0.0006		-0.0030	+0.0030	0.0006	---+*--	
POINT:PT5A Surf-Profile	0.0011		-0.0030	+0.0030	0.0011	---+*--	
POINT:PT6A Surf-Profile	0.0008		-0.0030	+0.0030	0.0008	---+*--	
POINT:PT7A Surf-Profile	0.0009		-0.0030	+0.0030	0.0009	---+*--	
POINT:PT8A Surf-Profile	0.0020		-0.0030	+0.0030	0.0020	---+-*-	
POINT:PT9A Surf-Profile	0.0023		-0.0030	+0.0030	0.0023	---+-*-	
POINT:PT10A Surf-Profile	0.0023		-0.0030	+0.0030	0.0023	---+-*-	
POINT:PT11A Surf-Profile	0.0018		-0.0030	+0.0030	0.0018	---+-*-	
POINT:PT12A Surf-Profile	0.0017		-0.0030	+0.0030	0.0017	---+-*-	
POINT:PT13A Surf-Profile	0.0014		-0.0030	+0.0030	0.0014	---+*--	
POINT:PT14A Surf-Profile	0.0014		-0.0030	+0.0030	0.0014	---+*--	
POINT:PT15A Surf-Profile	0.0012		-0.0030	+0.0030	0.0012	---+*--	
POINT:PT16A Surf-Profile	0.0012		-0.0030	+0.0030	0.0012	---+*--	
POINT:PT17A Surf-Profile	0.0005		-0.0030	+0.0030	0.0005	---+*--	
POINT:PT18A Surf-Profile	0.0005		-0.0030	+0.0030	0.0005	---+*--	
POINT:PT19A Surf-Profile	0.0003		-0.0030	+0.0030	0.0003	---*---	
POINT:PT20A Surf-Profile	0.0001		-0.0030	+0.0030	0.0001	---*---	

(in)	ACTUAL	NOMINAL	LO-TOL	HI-TOL	DEVIATION	GRAPHIC	ERROR
PROFILE OF SURFACE J AT 60 DEG							
POINT:PT1B							
Surf-Profile	-0.0007		-0.0030	+0.0030	-0.0007	--*+---	
POINT:PT2B							
Surf-Profile	-0.0020		-0.0030	+0.0030	-0.0020	-*--+--	
POINT:PT3B							
Surf-Profile	0.0000		-0.0030	+0.0030	0.0000	---*---	
POINT:PT4B							
Surf-Profile	0.0014		-0.0030	+0.0030	0.0014	----+*--	
POINT:PT5B							
Surf-Profile	0.0011		-0.0030	+0.0030	0.0011	---+*--	
POINT:PT6B							
Surf-Profile	0.0013		-0.0030	+0.0030	0.0013	----+*--	
POINT:PT7B							
Surf-Profile	0.0007		-0.0030	+0.0030	0.0007	---+*---	
POINT:PT8B							
Surf-Profile	0.0021		-0.0030	+0.0030	0.0021	----+-*-	
POINT:PT9B							
Surf-Profile	0.0025		-0.0030	+0.0030	0.0025	----+--*	
POINT:PT10B							
Surf-Profile	0.0024		-0.0030	+0.0030	0.0024	----+-*-	
POINT:PT11B							
Surf-Profile	0.0018		-0.0030	+0.0030	0.0018	----+-*-	
POINT:PT12B							
Surf-Profile	0.0017		-0.0030	+0.0030	0.0017	----+-*-	
POINT:PT13B							
Surf-Profile	0.0015		-0.0030	+0.0030	0.0015	----+-*-	
POINT:PT14B							
Surf-Profile	0.0014		-0.0030	+0.0030	0.0014	----+*--	
POINT:PT15B							
Surf-Profile	0.0012		-0.0030	+0.0030	0.0012	----+*--	
POINT:PT16B							
Surf-Profile	0.0011		-0.0030	+0.0030	0.0011	----+*--	
POINT:PT17B							
Surf-Profile	0.0005		-0.0030	+0.0030	0.0005	----+*--	

(in)	ACTUAL	NOMINAL	LO-TOL	HI-TOL	DEVIATION	GRAPHIC	ERROR
POINT:PT19B							
Surf-Profile	0.0003		-0.0030	+0.0030	0.0003	---*---	
POINT:PT19B							
Surf-Profile	0.0002		-0.0030	+0.0030	0.0002	---*---	
POINT:PT20B							
Surf-Profile	0.0001		-0.0030	+0.0030	0.0001	---*---	
PROFILE OF SURFACE J AT 120 DEG							
POINT:PT1C							
Surf-Profile	-0.0006		-0.0030	+0.0030	-0.0006	--*+---	
POINT:PT2C							
Surf-Profile	-0.0022		-0.0030	+0.0030	-0.0022	-*-+---	
POINT:PT3C							
Surf-Profile	0.0003		-0.0030	+0.0030	0.0003	---*---	
POINT:PT4C							
Surf-Profile	0.0020		-0.0030	+0.0030	0.0020	---+-*-	
POINT:PT5C							
Surf-Profile	0.0019		-0.0030	+0.0030	0.0019	---+-*-	
POINT:PT6C							
Surf-Profile	0.0020		-0.0030	+0.0030	0.0020	---+-*-	
POINT:PT7C							
Surf-Profile	0.0018		-0.0030	+0.0030	0.0018	---+-*-	
POINT:PT8C							
Surf-Profile	0.0023		-0.0030	+0.0030	0.0023	---+-*-	
POINT:PT9C							
Surf-Profile	0.0028		-0.0030	+0.0030	0.0028	---+--*	
POINT:PT10C							
Surf-Profile	0.0027		-0.0030	+0.0030	0.0027	---+--*	
POINT:PT11C							
Surf-Profile	0.0020		-0.0030	+0.0030	0.0020	---+-*-	
POINT:PT12C							
Surf-Profile	0.0019		-0.0030	+0.0030	0.0019	-- +-*-	
POINT:PT13C							
Surf-Profile	0.0017		-0.0030	+0.0030	0.0017	---+-*-	
POINT:PT14C							
Surf-Profile	0.0014		-0.0030	+0.0030	0.0014	--+*--	

(in)	ACTUAL	NOMINAL	LO-TOL	HI-TOL	DEVIATION	GRAPHIC	ERROR
POINT:PT15C Surf Profile	0.0011		-0.0030	+0.0030	0.0011	---+*-	
POINT:PT16C Surf Profile	0.0008		-0.0030	+0.0030	0.0008	---+*-	
POINT:PT17C Surf-Profile	0.0002		-0.0030	+0.0030	0.0002	---*---	
POINT:PT18C Surf-Profile	-0.0003		-0.0030	+0.0030	-0.0003	---*---	
POINT:PT19C Surf-Profile	-0.0003		-0.0030	+0.0030	-0.0003	---*---	
POINT:PT20C Surf-Profile	-0.0005		-0.0030	+0.0030	-0.0005	--*+---	
PROFILE OF SURFACE J AT 180 DEG							
POINT:PT1D Surf-Profile	-0.0006		-0.0030	+0.0030	-0.0006	--*+---	
POINT:PT2D Surf-Profile	-0.0021		-0.0030	+0.0030	-0.0021	*-+---	
POINT:PT3D Surf-Profile	0.0006		-0.0030	+0.0030	0.0006	---+*--	
POINT:PT4D Surf-Profile	0.0019		-0.0030	+0.0030	0.0019	---+-*-	
POINT:PT5D Surf-Profile	0.0026		-0.0030	+0.0030	0.0026	---+--*	
POINT:PT6D Surf-Profile	0.0022		-0.0030	+0.0030	0.0022	---+-*-	
POINT:PT7D Surf-Profile	0.0022		-0.0030	+0.0030	0.0022	---+-*-	
POINT:PT8D Surf-Profile	0.0030		-0.0030	+0.0030	0.0030	---+-->	0.0000
POINT:PT9D Surf-Profile	0.0032		-0.0030	+0.0030	0.0032	---+-->	0.0002
POINT:PT10D Surf Profile	0.0029		-0.0030	+0.0030	0.0029	---+--*	
POINT:PT11D Surf-Profile	0.0023		-0.0030	+0.0030	0.0023	---+-*-	

(in)	ACTUAL	NOMINAL	LO-TOL	HI-TOL	DEVIATION	GRAPHIC	ERROR
POINT:PT12D							
Surf-Profile	0.0021		-0.0030	+0.0030	0.0021	---+-*-	
POINT:PT13D							
Surf-Profile	0.0020		-0.0030	+0.0030	0.0020	---+-*-	
POINT:PT14D							
Surf-Profile	0.0015		-0.0030	+0.0030	0.0015	---+*--	
POINT:PT15D							
Surf-Profile	0.0013		-0.0030	+0.0030	0.0013	---+*--	
POINT:PT16D							
Surf-Profile	0.0010		-0.0030	+0.0030	0.0010	---+*--	
POINT:PT17D							
Surf-Profile	0.0003		0.0030	+0.0030	0.0003	---*---	
POINT:PT18D							
Surf-Profile	-0.0001		-0.0030	+0.0030	-0.0001	---*---	
POINT:PT19D							
Surf-Profile	-0.0003		-0.0030	+0.0030	-0.0003	---*---	
POINT:PT20D							
Surf-Profile	-0.0006		-0.0030	+0.0030	-0.0006	--*+---	
PROFILE OF SURFACE J AT 240 DEG							
POINT:PT1E							
Surf-Profile	-0.0009		-0.0030	+0.0030	-0.0009	--*+---	
POINT:PT2E							
Surf-Profile	-0.0016		-0.0030	+0.0030	-0.0016	-*-+	
POINT:PT3E							
Surf-Profile	0.0002		-0.0030	+0.0030	0.0002	---*---	
POINT:PT4E							
Surf-Profile	0.0012		0.0030	+0.0030	0.0012	---+*--	
POINT:PT5E							
Surf-Profile	0.0023		-0.0030	+0.0030	0.0023	---+-*-	
POINT:PT6E							
Surf-Profile	0.0017		-0.0030	+0.0030	0.0017	---+-*-	
POINT:PT7E							
Surf-Profile	0.0018		-0.0030	+0.0030	0.0018	---+-*-	
POINT:PT8E							
Surf-Profile	0.0026		-0.0030	+0.0030	0.0026	---+--*	

(in)	ACTUAL	NOMINAL	LO-TOL	HI-TOL	DEVIATION	GRAPHIC	ERROR
POINT:PT9E Surf-Profile	0.0029		0.0030	+0.0030	0.0029	---+- *	
POINT:PT10E Surf-Profile	0.0027		-0.0030	+0.0030	0.0027	---+--*	
POINT:PT11E Surf-Profile	0.0021		-0.0030	+0.0030	0.0021	---+-*-	
POINT:PT12E Surf-Profile	0.0019		-0.0030	+0.0030	0.0019	---+-*-	
POINT:PT13E Surf-Profile	0.0017		-0.0030	+0.0030	0.0017	---+-*-	
POINT:PT14E Surf-Profile	0.0015		-0.0030	+0.0030	0.0015	---+*--	
POINT:PT15E Surf-Profile	0.0013		-0.0030	+0.0030	0.0013	---+*--	
POINT:PT16E Surf-Profile	0.0010		-0.0030	+0.0030	0.0010	---+*--	
POINT:PT17E Surf-Profile	0.0004		-0.0030	+0.0030	0.0004	---*---	
POINT:PT18E Surf-Profile	0.0000		-0.0030	+0.0030	0.0000	---*---	
POINT:PT19E Surf-Profile	-0.0003		-0.0030	+0.0030	-0.0003	---*---	
POINT:PT20E Surf-Profile	-0.0003		-0.0030	+0.0030	-0.0003	---* ---	
PROFILE OF SURFACE J AT 300 DEG							
POINT:PT1F Surf-Profile	-0.0014		-0.0030	+0.0030	-0.0014	--*+---	
POINT:PT2F Surf-Profile	-0.0015		-0.0030	+0.0030	-0.0015	--*+---	
POINT:PT3F Surf-Profile	-0.0003		-0.0030	+0.0030	-0.0003	---*---	
POINT:PT4F Surf-Profile	0.0005		-0.0030	+0.0030	0.0005	---+*--	
POINT:PT5F Surf-Profile	0.0014		-0.0030	+0.0030	0.0014	---+*--	

Dim	ACTUAL	NOMINAL	LO TOL	HI TOL	DEVIATION	GRAPHIC	ERROR
POINT:PT6F Surf-Profile	0.0010		-0.0030	+0.0030	0.0010	---+*--	
POINT:PT7F Surf-Profile	0.0014		-0.0030	+0.0030	0.0014	---+*--	
POINT:PT8F Surf-Profile	0.0019		-0.0030	+0.0030	0.0019	---+-*-	
POINT:PT9F Surf-Profile	0.0024		-0.0030	+0.0030	0.0024	---+-*-	
POINT:PT10F Surf-Profile	0.0023		-0.0030	+0.0030	0.0023	---+-*-	
POINT:PT11F Surf-Profile	0.0017		-0.0030	+0.0030	0.0017	---+-*-	
POINT:PT12F Surf-Profile	0.0016		-0.0030	+0.0030	0.0016	---+-*-	
POINT:PT13F Surf-Profile	0.0013		-0.0030	+0.0030	0.0013	---+*-	
POINT:PT14F Surf-Profile	0.0013		-0.0030	+0.0030	0.0013	---+*--	
POINT:PT15F Surf-Profile	0.0012		-0.0030	+0.0030	0.0012	---+*--	
POINT:PT16F Surf-Profile	0.0013		-0.0030	+0.0030	0.0013	---+*--	
POINT:PT17F Surf-Profile	0.0006		-0.0030	+0.0030	0.0006	---+*--	
POINT:PT18F Surf-Profile	0.0003		-0.0030	+0.0030	0.0003	---*---	
POINT:PT19F Surf-Profile	0.0002		-0.0030	+0.0030	0.0002	---*---	
POINT:PT20F Surf-Profile	0.0002		-0.0030	+0.0030	0.0002	---*---	

Duration 46 mins 33 secs FAIL in:125 out:2 End of Report

CZ CHROMALLOY AZ

1. Approving National Aviation Authority Country	2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number
FAA/United States		C400718 - 1

4 Organization Name and Address:

Advanced Materials Technologies, Incorporated, 2015 West Alameda Drive Tempe, Arizona 85282, (ZT3R036M)

5. Work Order/Contract/Invoice Number

B23086

RO#

6. Item	7. Description	8. Part Number	9. Eligibility *	10. Quantity	11. Serial/Batch Number	12. Status/Work
1	SHROUD	3826141-7	N/A	1 EA	N/A / C400718	OVERHAULED

13. REMARKS: INSPECTED AND OVERHAULED IN ACCORDANCE WITH UNITED AIRLINES MANUALS 60-49-25-08/AR01, DATED 01/21/02, EID 60-49-25-08-00, DATED 12/04/02 AND FAA APPROVED DER ROUTIG AMT-4529/02-40.

"CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12/13 WAS CARRIED OUT IN ACCORDANCE WITH JAR 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER JAA ACCEPTANCE CERTIFICATE NUMBER: JAA.4020."

14. Certifies the Items identified above were manufactured in conformity to:

☐ Approved Design data and are in a condition for safe operation

☐ Non-Approved Design data specified in Block 13.

19. [X] 14CFR 43.9 Return to Service [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13 the work in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service

15. Authorized Signature	16. Approval/Authorization No.:	20. Authorized Signature	21. Approval/Certificate No:
			ZT3R036M
17. Name (Typed or Printed)	18. Date(m/d/y)	22. Name (Typed or Printed)	23. Date (m/d/y)
			3/16/2004

USER / INSTALLER RESPONSIBILITIES:

It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part/component assembly.

Where the user installer work in accordance with the national regulations of an Airworthiness Authority different than the Airworthiness Authority of the country specified in block 1, it is essential that the user installer work ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the Airworthiness Authority of the country specified in block 1.

Statements in block 14 and 19 do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user installer before the aircraft may be flown.

FAA Form 8130-3 (6-01)

* Installer must cross check eligibility with applicable technical data

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	07N3420645

4. Organization Name and Address:		5. Work Order/Contract/Invoice Number:
Honeywell International, Inc. 1944 E. Sky Harbor Circle Phoenix, AZ 85034	PRODUCTION APPROVAL TSOA	AL01098051 B41655

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial / Batch No:	12. Status / Work:
001	SHIELD INSUL	3826680-2	N/A TSO	000003	N/A. NOTE: (All serialization not referenced here is not required or traceable by HONEYWELL INC. Reference FAA order 8130.21c)	NEW

13. Remarks:

THIS FORM IS ISSUED AT 1944 E. SKY HARBOR CIRCLE PHOENIX, AZ 85034 AS AUTHORIZED BY THE PRODUCTION APPROVAL HOLDER AIRWORTHINESS APPROVAL - PARTS.

14. Certifies the items identified above were manufactured in conformity to:

- [X] Approved design data and are in a condition for safe operation.
- [ ] Non-approved design data specified in Block 13.

19. [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No:	20. Authorized Signature:	21. Approval/Certificate No:
Linda Fantechi	ODARF602216NM		
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
LINDA FANTECHI	02/24/04		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1. Approving National Aviation Authority:	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	4. Form Tracking Number:
FAA / United States		

5. Work Order, Contract, Inv#: B21611

6. Item	7. Description	8. Part No.	9. Qty	10. Unit	11. Serial No.	12. Status/Work
1					B21611	

13. Remarks:

The work specified in Block 12 was performed in accordance with the FAR Part 43 Appendix A(c)(1).

YES Engine Overhaul, Standard Engine or YES Assembly.

Engine Serviced by an Outside Vendor: YES

Certified Maintenance Facility Approval Number, Name, Cert. YES

Certified that the work specified in Block 12 was carried out in accordance with the FAA and with respect to that work the aircraft, component or engine is considered ready for return to service under the Airworthiness Certificate Number, Article.

14. Certifies the items identified above were manufactured in conformity to:	19. ☒ 14 CFR §43.9 Return to Service ☒ Other FAA, spec. in Block 13
☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13.	Certified that unless otherwise specified in Block 13, the work identified in Block 12 was accomplished in accordance with Part 43, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.
15. Authorized Signature: / 16. Approval/Auth. No.	20. Authorized Signature: Susan J. Moore / 21. Approval/Certificate No. WNBR711N
17. Name (Typed or Printed) / 18. Date (m/d/y):	22. Name (Typed or Printed): SUSAN J. MOORE / 23. Date (m/d/y): March 22, 2019

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1. Approving National Aviation Authority/Country:	2. AUTHORIZED RELEASE CERTIFICATE	3. Form Tracking Number:
FAA / United States	FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	879804

4. Organization:	5. Work Order, Contract or Invoice No.
Praxair Surface Technologies, Inc. 441 Sackett Point Road North Haven, Connecticut 06473	166944

6.Item	7. Description	8. Part Number	9.Eligibility*	10.Quantity	11.Serial/Batch Number	12.Status/Work
1	SEAL-ROTOR	DEC31-167-501	N/A	1	RJ1KH	REPAIRED

13. Remarks

E/M GTCP331-200/-250 ATA: 49-23-49.
REPAIR WG01-15
.008/.010" THICKNESS OF LC-1C (CHROME CARBIDE) COATING APPLIED.

Praxair Surface Technologies, Inc. certifies that the work specified in block 12/13 was carried out in accordance with Jar 145 and with respect to that work the aircraft component is considered ready for release to service under JAA Acceptance Certificate Number: JAA.4768

14. Certifies the items identified above were manufactured in conformity to:

☐ Approved design data and are in a condition for safe operation.

☐ Non-approved design data specified in Block 13.

19. ☒ 14 CFR 43.9 Return to Service ☒ Other Reg. spec. in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.	20. Authorized Signature:	21. Approval Certificate Number:
			OY25074L
17. Name (Typed or Printed)	18. Date (m/d/y):	22. Name (Typed or Printed)	23. Date (m/d/y):
		James P. O'Dell	3/11/04

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1. Approving Civil Aviation Authority/Country: FAA / United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	4. Form Tracking Number:

5. Work Order, Contract, Inv#: B21610

8. Item	9. Description	10. Part Number	11. Serial No.	12. Status/Work
1	[illegible]	[illegible]	B21610	[illegible]

13. Remarks:

This item is eligible for export under the provisions of 22 CFR Part 123 or 22 CFR Part 125 as applicable.

yes Engine Model, Condition Explanation

yes Propeller

NOTE: Serial Number Information Only

yes

EC-130 Pharmaceutical Cargo Aircraft
Kennedy, North Haven, Conn.

yes

Certifies that the work specified in Block 12 was carried out in accordance with 14 CFR 43 and with respect to that work the aircraft component is considered ready for release to service unless Certification Number(s) [illegible] is/are specified in Block 13.

14. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13.	15. Authorized Signature:	16. Approval/Auth. No.	14. ☒ 14 CFR 43.9 Return to Service ☒ Other Reg. spec. in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.	20. Authorized Signature: Susan J. Moore	21. Approval/Certificate No. MNPR11K
	17. Name (Typed or Printed)	18. Date (m/d/y):		22. Name (Typed or Printed) Susan J. Moore	23. Date (m/d/y): March 22, 2016

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

[illegible]

1. Approving National Aviation Authority/Country:	2. AUTHORIZED RELEASE CERTIFICATE	3. Form Tracking Number:
FAA / United States	FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	879804

4. Organization:	5. Work Order, Contract or Invoice No.
Praxair Surface Technologies, Inc. 441 Sackett Point Road North Haven, Connecticut 06473	166944

6.Item	7. Description	8. Part Number	9.Eligibility*	10.Quantity	11.Serial/Batch Number	12.Status/Work
1	SEAL-ROTOR	DEC31-167-501	N/A	1	B-2161C	REPAIRED

13. Remarks

E/M GTCP331-200/-250 ATA: 49-23-49.
REPAIR WG01-15
.008/.010" THICKNESS OF LC-IC (CHROME CARBIDE) COATING APPLIED.

Praxair Surface Technologies, Inc. certifies that the work specified in block 12/13 was carried out in accordance with Jar 145 and with respect to that work the aircraft component is considered ready for release to service under JAA Acceptance Certificate Number: JAA.4768

14. Certifies the items identified above were manufactured in conformity to:	19. [X] 14 CFR 43.9 Return to Service [X] Other Reg. spec. in Block 13
[ ] Approved design data and are in a condition for safe operation. [ ] Non-approved design data specified in Block 13.	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.	20. Authorized Signature:	21. Approval Certificate Number:
			OY25074L
17. Name (Typed or Printed)	18. Date (m/d/y):	22. Name (Typed or Printed)	23. Date (m/d/y):
		James P. O'Dell	3/11/04

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	DEC040220-4163-3245 265586 02/27/04 cc
4. Organization Name and Address: DEC TECHNOLOGIES, INC., 501 INDUSTRIAL PARK ROAD, PINBY FLATS, TN 37686 PQ1469CE		5. Work Order/Contract/Invoice Number: TRA118140

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	SEAL ASSEMBLY, COMPRESSOR	DEC31-157-501	TO BE VERIFIED BY INSTALLER	82	45556	NEW

13. Remarks:

"THIS PMA PART IS NOT A CRITICAL COMPONENT", "AIRWORTHINESS APPROVAL" END

FV-526 -2
NV-520 -1
NV-526 -1

PO#B41765

14. Certifies the items identified above were manufactured in conformity to:

- ☑ Approved design data and are in a condition for safe operation.
- ☐ Non-approved design data specified in Block 13.

19. 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
Dennis Scalf	DMIR 511218CE		
17. Name (Typed or Printed): Dennis Scalf	18. Date (m/d/y): February 20, 2004	22. Name (Typed or Printed):	23. Date (m/d/y):

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 3, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 3.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

FAA Form 8130-3 (6-01) *Installer must cross-check eligibility with applicable technical data. NSN: 0052-00-012-9005

1. Approving National Aviation Authority/Country	2.	3. Form Tracking Number
FAA / United States of America	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	66456
4. Organization Name and Address: ***Precise Metal Products Company 3839 North 39th Avenue Phoenix, AZ 85019***		5. Work Order/ Contract/Invoice Number: B23213 R.O. #

6. Item	7. Description	8. Part Number	9. Eligibility	10. Quantity	11. Serial/ Batch Number	12. Status/Work:
1	Insert Sound Attenuator	3810210-4	N/A	1	66456	Overhauled

13. Remarks:

Overhauled per U.A.L. Repair Manual 49-22-03 /AR03 Dated 9-4-97

NOTE: The work specified in block 12 & 13 was carried out IAW FAR 145, JAR 145 & released under JAA 4775 / FAA Repair Station #VL3R923L

14. Certifies the items identified above were manufactured in conformity to:	19. [X] 14 CFR 43.9 Return to Service [X] Other regulation specified in Block 13
[ ] Approved design data and are in a condition for safe operation [ ] Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal regulations, Part 43 and in retrospect to that work, the items are approved for return to service

15. Authorized Signature	16. Approval / Authorization No.	20. Authorized Signature	21. Approval / Certificate No.: VL3R923L
17. Name (Typed or Printed)	18. Date (m/d/y):	22. Name Typed or Printed): David M. Holmes	23. Date (m/d/y): March 23, 2004

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

FAA Form 8130-3 (6-01) *Installer must cross-check eligibility with applicable technical data.

Precise Metal Products Company

3839 N. 39th Avenue
Phoenix, Arizona 85019
Phone (602) 272-2625

Overhaul & Repair Receiving Inspection and Teardown Report

Customer:	CHROMALLOY	Job Number:	66456
Part No.	3810210-4	Serial No.	N/A
P.O., W.O.	B23213	R.O.	
Quantity Received	1	Other:	

Part Evaluation

Customer Defects Noted:

N/A

Customer Work Instructions:

Repair, Overhaul, or Exchange as required
Reference Auth---Doc UAL Spec 49-22-03/AR03
Rework codes 300, 304

PMP Receiving Inspection Findings:

Acoustic backing has Dents and Holes
Back outer ring has Fretting
Inner ring has Fretting
Part is Bent

Findings during and after repair (Hidden Damage)

None ☑

Comments:

Date: February 16, 2004

Inspector's Signature: D Holmes

Repair Station # VL3R923L
JAA Approved # JAA.4775

CZ CHROMALLOY AZ

1. Approving National Aviation Authority (country)	2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number
FAA/United States		C401970 - 1

4. Organization Name and Address	5. Work Order/Contract/Invoice Number
Advanced Materials Technologies, Incorporated, 2015 West Alameda Drive Tempe, Arizona 85282, (ZT3R036M)	B22840W RO#

6. Item	7. Description	8. Part Number	9. Eligibility *	10. Quantity	11. Serial/Batch Number	12. Status/Work
1	INLET HOUSING ASSY	3810176-9	N/A	1 EA	N/A / C401970	OVERHAULED

13. REMARKS:

INSPECTED AND OVERHAULED IN ACCORDANCE WITH UNITED AIRLINES MANUAL *60-49-25-15/AR01, DATED 03/11/02* AND FAA APPROVED DER ROUTING AMT-1827/97-68. P/N 3810176-7 MODIFIED TO P/N 3810176-9 ORIGINALLY WORKED UNDER WO C400112

"CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12/13 WAS CARRIED OUT IN ACCORDANCE WITH JAR 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER JAA ACCEPTANCE CERTIFICATE NUMBER: JAA.4020."

14. Certifies the items identified above were manufactured in conformity to:

☐ *Approved* Design data and are in a condition for safe operation

☐ Non-Approved Design data specified in Block 13.

19. [X] 14CFR 43.9 Return to Service [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13 the work in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service

15. Authorized Signature	16. Approval/Authorization No.:	20. Authorized Signature	21. *Approval Certificate No:*
		Acla Baker	ZT3R036M
17. Name (Typed or Printed)	***18. Date(m/d/y)***	**22. Name** *(Typed or Printed)*	**23. Date (m/d/y)**
		Acla Baker	3/12/2004

USER / INSTALLER RESPONSIBILITIES:

It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part component assembly.

Where the user installer work in accordance with the national regulations of an Airworthiness Authority different than the *Airworthiness Authority of the country specified in block 1*, it is essential that the user installer work ensures that his/her Airworthiness Authority accepts parts components assemblies from the Airworthiness Authority of the country specified in block 1.

Statements in block 14 and 19 do not constitute installation certification. In all cases aircraft maintenance records must contain an *installation certification issued in accordance with the national* regulations by the user installer before the aircraft may be flown.

** Installer must cross check eligibility with applicable technical data*

1. Approving National Aviation Authority (Country)	2.	3. Form Tracking Number
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	RK978-707

4. Organization Name and Address	5. Work Order, Contract or Invoice Number
CHROMALLOY ARIZONA 5161 W. Polk Street, Phoenix, AZ 85043	S303376

6. Item	7. Description	8. Part Number	9. Eligibility *	10. Quantity	11. Serial/Batch Number	12. Status/Work
1	Bearing Ring	3826160-2	n/a	1	RK978-707	Overhauled

13. Remarks

WORK ORDER
The work described in block 12 was performed in accordance with:
IRM 49-23-49 Rev. 15, 09/29/2000
UAL 49-22-02/AR02

Certifies that the work specified in block 12/13 was carried out in accordance with JAR 145 and with respect to that work the aircraft component is considered ready for release to service under JAA Acceptance Certificate Number: JAA.4325

14. Certifies the item identified above were manufactured in conformity to:
[ ] Approved design data and are in a condition for safe operation.
[ ] Non-approved design data specified in Block 13

19. [X] 14 CFR 43.9 Return to Service [ ] Other regulation specified in block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished with Title 14, Code of Federal Regulations, part 43 and in respect to the work, the items are approved for return to service.

15. Authorized Signature:	16. Approval Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
		Patricia J Peterson	TR3D877L
17. Name (Typed or Printed):	**18. Date (mm/dd/yyyy):**	**22. Name (Typed or Printed):**	**23. Date (mm/dd/yyyy):**
		PATRICIA J PETERSON	03/15/2004

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component assembly.

Where the user/installer work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1 it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components assemblies from the airworthinessauthority of the country specified in block 1.

Statements in block 14 and 19 do not constitute installation certification in all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user installer before the aircraft may be flown.

*Installer must cross check eligibility with applicable technical data.

ISSN 0852-00-012-9005

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	L0400525295

4. Organization Name and Address		5. Work Order/Contract/Invoice Number:
Honeywell International, Inc. 1944 E. Sky Harbor Circle Phoenix, AZ 85034	PRODUCTION APPROVAL TSOA	H9U758-001 B23058 001

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial / Batch No:	12. Status / Work:
001	HSG ASSY	3810187-2	N/A TSO	000001	N/A. NOTE: (All serialization not referenced here is not required or traceable by HONEYWELL INC. Reference FAA order 8130.21c)	NEW

13. Remarks:

THIS FORM IS ISSUED AT 1944 E. SKY HARBOR CIRCLE PHOENIX, AZ 85034 AS AUTHORIZED BY THE PRODUCTION APPROVAL HOLDER AIRWORTHINESS APPROVAL - PARTS.

14. Certifies the items identified above were manufactured in conformity to:

- [X] Approved design data and are in a condition for safe operation.
- [ ] Non-approved design data specified in Block 13.

19. [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.	20. Authorized Signature:	21. Approval/Certificate No.
Linda Fantechi	ODARF602216NM		
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
LINDA FANTECHI	02/02/04		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts part/component/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

*Installer must cross-check eligibility with applicable technical data.

1. Approving National Aviation Authority/Country:	2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number:
FAA/United States		07N3336122

4. Organization Name and Address		5. Work Order/Contract/Invoice Number:
Honeywell International, Inc. 1944 E. Sky Harbor Circle Phoenix, AZ 85034	PRODUCTION APPROVAL TSOA	AL01068897 B41243

6. Item:	7. Description:	8. Part Number:	9. Eligibility *	10. Quantity:	11. Serial / Batch No:	12. Status / Work:
001	BELL CRANK ASSY	3826527-2	N/A TSO	000003	N/A. NOTE: (All serialization not referenced here is not required or traceable by HONEYWELL INC. Reference FAA order 8130.21c)	NEW

13. Remarks:

THIS FORM IS ISSUED AT 1944 E. SKY HARBOR CIRCLE PHOENIX, AZ 85034 AS AUTHORIZED BY THE PRODUCTION APPROVAL HOLDER AIRWORTHINESS APPROVAL - PARTS.

1 pc. shipped seperately

14. Certifies the items identified above were manufactured in conformity to:

[X] Approved design data and are in a condition for safe operation.

[ ] Non-approved design data specified in Block 13.

19. [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No:	20. Authorized Signature	21. Approval/Certificate No:
Joyce Albers	ODARF602216NM		
17. Name (Typed or Printed):	18. Date (m/d/y):	22. Name (Typed or Printed):	23. Date (m/d/y):
JOYCE ALBERS	12/02/03		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	743107

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
HONEYWELL INTERNATIONAL - ENGINES, SYSTEMS & SERVICES (PC413) P.O. BOX 52181 PHOENIX, AZ 850722181 c/o HARDWARE PRODUCT GROUP 1405 W. 240TH ST. HARBOR CITY, CA 90710	2032122 002

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	BEARING	137-542-9501 ****** L A S T I T E M ******	ALF502R-5 ALF502R-3A	16 EA	Lot# 0303007030 MLot:0230310	NEW

13. Remarks:

EXPORT. DIRECT SHIPMENT AUTHORIZATION.

Customer P.O. # B40108

It is hereby certified that (a) the parts and/or materials reflected herein were produced under Federal Aviation Administration approved manufacturing and quality control systems/methods as set forth in FAA Production Approval to manufacture issued to Honeywell International Inc. and (b) such parts and/or materials are in an airworthy condition. Direct ship authorization from the Production Approval Holder is on file.

Per FV390

14. Certifies the items identified above were manufactured in conformity to:

- [X] Approved design data and are in a condition for safe operation.
- [ ] Non-approved design data specified in Block 13.

19. [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
Frank J. Mitchell	ODARF602216NM		
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
Frank Mitchell	03/06/03		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1. Agency and National Authority
FAA UNITED STATES

AUTHORIZED RELEASE CERTIFICATE

FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number
P05-[illegible]

4. Organization Name and Address
CHROMALLOY ARIZONA
9141 W. Polk Street, Phoenix, AZ 85043

5. Work Order or Contract or Invoice Number
S298210

6. Item	7. Description	8. Part Number	9. Eligibility	10. Quantity	11. Serial/Batch Number	12. Status/Work
1	IGV Actuator Mount	3826154-1	N/A	1	RI513 676	Overhauled

13. Remarks

WORK ORDER
The work described in block 12 was performed in accordance with:
IRM 49-23-49 Rev. 15, 09/29/2000
UAL BID 60-49-25-11-00
UAL 49-25-11/AR01, 08/09/1995

Certifies that the work specified in block 12/13 was carried out in accordance with JAR 145 and with respect to that work the aircraft component is considered ready for release to service under JAA Acceptance Certificate Number: JAA.4325

14. Certifies the item identified above were manufactured in conformity to:
[ ] Approved design data and are in a condition for safe operation.
[ ] Non-approved design data specified in Block 13

19. [X] 14 CFR 43.9 Return to Service [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished with Title 14, Code of Federal Regulations, part 43 and in respect to the work, the items are approved for return to service

15. Authorized Signature:	16. Approval Authorization No.:	20. Authorized Signature:	21. Approval Certificate No:
		Tammy Hellard	TR3D877L
17. Name (Typed or Printed):	18. Date (mm/dd/yyyy):	22. Name (Typed or Printed): TAMMY HELLARD	23. Date (mm/dd/yyyy): 02/23/2004

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component assembly.

Where the user installer work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1 it is essential that the user installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the airworthiness authority of the country specified in block 1

Statements in block 14 and 19 do not constitute the installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user installer before the aircraft may be flown

FAA Form 8130-3 (10/2001)
FORM #CAZ1950 Rev. 04/2002

*Installer must cross check eligibility with applicable technical data

NSN 0052-00-0102-9065

1. Approving National Aviation Authority/Country:
FAA/United States

2. **AUTHORIZED RELEASE CERTIFICATE**
FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number:
07N3361607

4. Organization Name and Address:
Honeywell International, Inc.
1944 E. Sky Harbor Circle
Phoenix, AZ 85034

PRODUCTION APPROVAL
TSOA

5. Work Order/Contract/Invoice Number:
ALC1077808
D3MA3927146

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial / Batch No:	12. Status / Work:
001	CARRIER	3826125-1	N/A TSO	000001	N/A. NOTE: (All serialization not referenced here is not required or traceable by HONEYWELL INC. Reference FAA order 8130.21c)	NEW

13. Remarks:
THIS FORM IS ISSUED AT 1944 E. SKY HARBOR CIRCLE PHOENIX, AZ 85034 AS AUTHORIZED BY THE PRODUCTION APPROVAL HOLDER AIRWORTHINESS APPROVAL - PARTS.

PO# 841735

14. Certifies the items identified above were manufactured in conformity to:
[X] Approved design data and are in a condition for safe operation.
[ ] Non-approved design data specified in Block 13.

19. [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13
Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature: Greg Rector

16. Approval/Authorization No:
ODARF6022I6NM

20. Authorized Signature:

21. Approval/Certificate No:

17. Name (Typed or Printed):
GREG RECTOR

18. Date (m/d/y):
12/27/03

22. Name (Typed or Printed)

23. Date (m/d/y):

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

*Installer must cross-check eligibility with applicable technical data.

1. Approving National Aviation Authority/Country: **FAA/United States**

2. # AUTHORIZED RELEASE CERTIFICATE
FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number: 07N3361607

4. Organization Name and Address:
Honeywell International, Inc.
1944 E. Sky Harbor Circle
Phoenix, AZ 85034

PRODUCTION APPROVAL
TSOA

5. Work Order/Contract/Invoice Number:
AL01077808
D3MA3927146

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial / Batch No:	12. Status / Work:
001	CARRIER	3626125-1	N/A TSO	000001	N/A. NOTE: (All serialization not referenced here is not required or traceable by HONEYWELL INC. Reference FAA order 8130.21c)	NEW

13. Remarks:
THIS FORM IS ISSUED AT 1944 E. SKY HARBOR CIRCLE PHOENIX, AZ 85034 AS AUTHORIZED BY THE PRODUCTION APPROVAL HOLDER AIRWORTHINESS APPROVAL - PARTS.

PO# B41735

14. Certifies the items identified above were manufactured in conformity to:
[X] Approved design data and are in a condition for safe operation.
[ ] Non-approved design data specified in Block 13.

19. [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13
Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature: Greg Rector

16. Approval/Authorization No: ODARF602216NM

17. Name (Typed or Printed): GREG RECTOR

18. Date (m/d/y): 12/27/03

20. Authorized Signature:

21. Approval/Certificate No:

22. Name (Typed or Printed):

23. Date (m/d/y):

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

*Installer must cross-check eligibility with applicable technical data.

NSN:0052-00-012-9005

VOLVO AERO SERVICES LP

VOLVO

Part or Material Certification Form

ISO9001, ASA100 - ATA Specification 106

1. Seller's Name: Volvo Aero Services LP

3. Reference # D3MA3928

4. VOLVO AERO SERVICES LP
645 Park of Commerce Way
Boca Raton, 33487

Phone # : (561) 998-9330
Fax # : (561) 998-9714
SITA/Wire Code : FLLGDXD
Status : Surplus Parts Provider

5a. Seller's Contract Number : 004345010

5b. Buyer's P.O. Number : B41735; CHROMALLOY GAS TURBINE CORP

6. Item	7. Description	8a. Part Number	8b. Manufacturer	9. Eligibility	10. Quantity	11. Serial/Batch	12. Status
1	CARRIER	3826125-1	ALLIEDSIGNAL INC	T.B.V	1	NSN	NEW

13a. REMARKS:

PO# B41735

13b. Obtained from: HONEYWELL

Traceable to: 145 HONEYWELL INTERNATIONAL INC

13c. Last Certified By: N/A

Last Cert Date: Cert. No.

TO THE BEST OF OUR KNOWLEDGE BASED ON THE INFORMATION PROVIDED BY THE SUPPLIER IDENTIFIED IN BLOCK 13b, THE PART(S) DESCRIBED ABOVE WERE NOT OBTAINED FROM ANY GOVERNMENT OR MILITARY SOURCE NOR SUBJECTED TO CONDITIONS AS DEFINED IN FAA AC 20-62D Para 8(c)2 (EXTREME STRESS, SUDDEN STOPPAGE, HEAT, MAJOR FAILURE OR ACCIDENT).

14. New Parts/Material Certification

The following signature attests that to the best of our knowledge, based on the information provided by the supplier identified in Block 13b, the part(s) or material(s) identified above was (were) manufactured by an FAA Production Approval Holder or to an industry or commercial standard.

[redacted]

Signature

Name PAULA BAILEY

For Volvo Aero Services
Quality Assurance

Date 03/10/04

Notice: the above signature binds the signer and the SELLER to the accuracy of the information provided in this Form. Should the information provided in this FORM contain inaccuracies or misrepresentations, the signer and the SELLER be liable for damages and are subject to criminal prosecution under state and federal law.

Honeywell

Honeywell International Inc.
1944 E. Sky Harbor Circle
Phoenix, Arizona 85034
United States of America

SHIPPER/INVOICE

PAGE
INV DATE
INV NO
SHIP DATE
PARTIAL / FINAL

SEE BELOW
2[illegible]/03
CONSOL INV [illegible]/03

SOLD TO 699
VOLVO AERO SERVICES LP
645 PARK OF COMMERCE WAY
BOCA RATON, FL 33487

PT TO [illegible]
VOLVO AERO SERVICES LP
645 PARK OF COMMERCE WAY
BOCA RATON, FL 33487
ACCT# 1411-8042-9

VIT TO PTT
HONEYWELL
AERONAUTICAL SERVICES
P. O. BOX [illegible]3020)
PHOENIX, AZ 85036-0020

BILL TO 699
VOLVO AERO SERVICES LP
ATTN: ACCOUNTS PAYABLE
645 PARK OF COMMERCE WAY
BOCA RATON, FL 33487

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NO [illegible] NO OF 1
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MARKS FX ACCT 1411-8042-9

RCHASE ORDER

CUSTOMER ORDER

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1	[illegible]	SEAL	1	EA		

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[illegible]
ATTN: [illegible]
[illegible]
[illegible]

[illegible]

[illegible]

NE NO	PART NUMBER	DESCRIPTION	QTY	UM	UNIT PRICE	EXTENDED PRICE
2	[illegible]	[illegible]	1	EA		

[illegible]

oneywell certifies that the product(s) described hereon conform to the applicable ntractual requirements, TSO C77 as applicable, and were procured or anufactured in accordance with Honeywell's Quality Assurance system approved by e United States Government where applicable.

TEPHEN J. McGINN

Stephen J. McGinn

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

8201 (2/00)

Honeywell

Honeywell International Inc.
1944 E. Sky Harbor Circle
Phoenix, Arizona 85034
United States of America

SHIPPER/INVOICE

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SEE BELOW
05/15/03
CONSOL NO. AE0107800

PTO
VOLVO AERO SERVICES LP
645 PARK OF COMMERCE WAY
BOCA RATON, FL 33487
ATTN: ACCOUNTS PAYABLE # 1411-6047-9

SOLD TO
VOLVO AERO SERVICES LP
645 PARK OF COMMERCE WAY
BOCA RATON, FL 33487

VIT TO
[illegible]

BILL TO
VOLVO AERO SERVICES LP
ATTN: ACCOUNTS PAYABLE
645 PARK OF COMMERCE WAY
BOCA RATON, FL 33487

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		"BEST PRODUCT" UNDER FEDERAL AVIATION ADMINISTRATION (FAA) APPROVED MANUFACTURI AND QUALITY CONTROL SYSTEMS/METHODS (TSOA, PMA, AND/OR PC), OR [illegible] EQUIVALENT [illegible] SPECIFICATIONS, AND (C) SUCH PARTS AND/OR MATERIALS ARE NEW AND CONFORM TO DRAWING, AND ARE IN AN AIRWORTHY CONDITION				
1	[illegible]	CARRIER DEL	1 EA			1

[illegible] 03
[illegible] PO: 4500250931 CUST ORD: D3A039237147
IT IS HEREBY CERTIFIED THAT (a) THE PARTS AND/OR MATERIALS DESCRIBED HEREIN [illegible] "BEST PRODUCT" UNDER FEDERAL AVIATION ADMINISTRATION (FAA) APPROVED MANUFACTURI AND QUALITY CONTROL SYSTEMS/METHODS (TSOA, PMA, AND/OR PC), OR [illegible] EQUIVALENT [illegible] SPECIFICATIONS, AND (C) SUCH PARTS AND/OR MATERIALS ARE NEW AND CONFORM TO DRAWING, AND ARE IN AN AIRWORTHY CONDITION

[redacted]

[illegible]

oneywell certifies that the product(s) described hereon conform to the applicable ontractual requirements, TSO C77 as applicable, and were procured or anufactured in accordance with Honeywell's Quality Assurance system approved by ne United States Government where applicable

TEPHEN J McGINN

Stephen J. McGinn

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

A8001 12/00

Honeywell

Honeywell International Inc.
1944 E. Sky Harbor Circle
Phoenix, Arizona 85034
United States of America

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Honeywell certifies that the product(s) described hereon conform to the applicable contractual requirements, TSO C77 as applicable, and were procured or manufactured in accordance with Honeywell's Quality Assurance system approved by the United States Government where applicable.

STEPHEN J McGINN

Stephen J. McGinn

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GA8C01 (2/00)

Honeywell

Honeywell International Inc.
1944 E. Sky Harbor Circle
Phoenix, Arizona 85034
United States of America

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CONTINUED TO NEXT PAGE

Honeywell certifies that the product(s) described hereon conform to the applicable contractual requirements, TSO C77 as applicable, and were procured or manufactured in accordance with Honeywell's Quality Assurance system approved by the United States Government where applicable.

STEPHEN J. McGINN

Stephen J. McGinn

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

GTCP331-200 APU IMPELLER DRIVEN COMPRESSOR
PER EID 49-25-19-00 02/05/99

ALWAYS REFER TO THE SPECIFICATION TO VERIFY TOLERANCES

OPERATOR NAME: PAUL PREVELE
LOT NUMBER: 552999
PART NUMBER: 3822080-3
SERIAL NUMBER: 1-501-1732

PROFILE OF THE VOLUTED SURFACE

BLADE 1

(in) GAUGE POINT	ACTUAL	NOMINAL	LO-TOL	HI-TOL	DEVIATION	GRAPHIC	ERROR
POINT:10601 Surf-Profile	0.0000		-0.0030	+0.0030	0.0000	---*---	
POINT:10602 Surf-Profile	0.0001		-0.0030	+0.0030	0.0001	---*---	
POINT:10603 Surf-Profile	0.0006		-0.0030	+0.0030	0.0006	---*---	
POINT:10604 Surf-Profile	-0.0008		-0.0030	+0.0030	-0.0008	--*+---	
POINT:10605 Surf-Profile	-0.0010		-0.0030	+0.0030	-0.0010	--*+---	
POINT:10606 Surf-Profile	-0.0021		-0.0030	+0.0030	-0.0021	-*--+---	
POINT:10607 Surf-Profile	-0.0015		-0.0030	+0.0030	-0.0015	-*--+---	
POINT:10608 Surf-Profile	-0.0014		-0.0030	+0.0030	-0.0014	--*+---	
POINT:10609 Surf-Profile	-0.0014		-0.0030	+0.0030	-0.0014	--*+---	
POINT:10610 Surf-Profile	-0.0010		-0.0030	+0.0030	-0.0010	--*+---	
POINT:10611 Surf-Profile	-0.0009		-0.0030	+0.0030	-0.0009	--*+---	
POINT:10612 Surf-Profile	-0.0013		-0.0030	+0.0030	-0.0013	--*+---	
POINT:10613 Surf-Profile	-0.0012		-0.0030	+0.0030	-0.0012	--*+---	

(in)	ACTUAL	NOMINAL	LO-TOL	HI-TOL	DEVIATION	GRAPHIC	ERROR
POINT:10014							
Surf-Profile	-0.0012		-0.0030	+0.0030	-0.0012	--*+---	
POINT:10015							
Surf-Profile	0.0022		-0.0030	+0.0030	-0.0022	-*-+---	
POINT:10016							
Surf-Profile	-0.0020		-0.0030	+0.0030	-0.0020	-*-+---	

Duration 14 mins 9 secs PASS in:16 out:0 End of Report

WORK CENTER: 551

SERIAL NBR	ET	MT	NAME	PWR RTG	CUST
61913	V		APU331	200E	UA

ORDER NUMBER
V518

COAS FOR MODULE TYPE F - SERIAL NUMBER P1372 MODULE NAME: DRIVEN COMP SE WORK CENTER: 551

COA NUMBER	COA CAT	MODULE/ FUNC NBR	UNIT SERIAL	UNIT COA STATUS	ISS	COMP	COA TITLE	COMPLETION DATE
5-9089	4	00988	UA00194244	COMPLETED			757/767 GTCP331 APU IGV BUSHNG-UPGRADE	06/12/95

UNITED AIRLINES - MASTER ICS/BOM

Effectivity 331-200ER APU Engine Manual - Inspection and Condition Sheet

Origination Date: 2/19/2004

~~GEARBOX MODULE "AX"~~ CLUTCH MODULE LV1209 ALL PARTS CONTAINED WITHIN ARE NON HAZMAT

60-49-26-01-00 ICS

MODULE ORDER # LV507

EON V507 | ESN 60189 | VADE # | CUSTOMER UAL | MODULE SERIAL #

DISPOSITION CODES:

E =	PART MEETS DETAIL PART EID REQUIREMENTS (ZERO TIME SINCE DETAIL PART INSPECTION)
A =	EXPOSED AREA OF PART MEETS VISUAL REQUIREMENTS OF APPROPRIATE EID (CONTINUED TIME SINCE DETAIL PARTS INSPECTION)
C =	PART ROUTED OR CORRECTIVE ACTION TAKEN
ATA# ____ = S/L - SEQ	EID NUMBER [49 precedes numbers shown (49) 31-XX] SECTION / LIST - SEQUENCE NUMBER
EPM ____ = FUNC #	STAMP TO INDICATE PART OFF-LOG FROM MODULE FUNCTION NUMBER

INSPECTION NOTES

(STAMP OFF APPROPRIATE DISPOSITION CODE. MORE THAN ONE CODE MAY BE STAMPED.)
(INDICATE CONDITION OF UNSERVICEABLE PARTS REGARDLESS OF CONDITION.)
(TO CLEAR PARTS NOT EXPOSED DRAW A LINE THROUGH THE COMPLETE ENTRY AND STAMP IN LEFT MARGIN.)
(IF PART IS ROUTED ON AN R & R TAG IT IS MANDATORY TO STAMP THE APPLICABLE "E" "A" OR "C" BLOCK AND WRITE R & R IN THE "C" BLOCK THEN COMPLETE THE APPROPRIATE COMPUTER TRANSACTION.)
(ALL PARTS NEEDING REPAIR WILL HAVE AN IDENTIFICATION TAG WITH PART NUMBER, SERIAL NUMBER (IF APPLICABLE) AND THE QUANTITY, ATTACHED TO THE PART.)
(PARTS THAT DO NOT HAVE SPECIFIC EID'S WRITTEN FOR THEM MUST BE VISUALLY INSPECTED FOR GENERAL CONDITION PER 331-500 BOOK "0" 20-49-00-00, INTRODUCTION, SECTION 4, PARA A, STATEMENT 4.

MODULE INSPECTION GUIDE

(1) Module seperated from adjoining modules, inspected and found serviceable per ..... EID 60-49-21-00-00 [ZERO (TSMI) No parts removed from module. No additional sign-off required.

(2) Module partially or completely disassembled. Removed parts and / or exposed areas inspected ~~T209A~~ ... per appropriate EID (ZERO TSDPI).

Control Date: 20031203

Gearbox mod "AV" I & C Sheet page 2 of 7 **Revision Date** 2/25/2004 **Name**

APU S/N	60189	TSLV		EON	V507
Total Time		CSLV		P.O.	
Total Cycles				Date Rcvd.	

CAZ SHIP TO DATE | CAZ RET DATE

MODULE ORDER # LV507
MODULE SERIAL #

Inspection Use Only				Hardware Info					Stores Use			
E	A	C	OFF-LOG FUNC #	Description	P/N TYPICAL	PCN	ATA = S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
				BEARING FAN IDLER	358024	245-0395	26-00-01 01-410	2				
			5642	BEARING OIL PUMP	358027	245-0397	26-00-01 01-420	2				
			5643	BEARING HI SPEED PINION	3860158-1	265-0258	26-00-01 01-430	2				
			5644	BEARING GEN IDLER	3860173-1	265-0263	26-00-01 01-440	2				
			5645	BEARING ROLLER GEN	3605094-1	265-4339	26-00-01 01-450	2				
			5646	BEARING IDLER	358457-1	245-0399	26-00-01 01-460	2				
			5647	BEARING BALL OUTER RACE	3860496-1	265-3161	26-00-01 01-490	1				
			9267 EPM 0987	HOUSING ASSY	3862699-3	265-3164	26-02-00 01-300	1				
			EPM 0987	HOUSING ASSY	3862219-7	265-0499	26-02-00 01-300	1				
			2233	GEAR ASSY OIL PUMP	3860165-2	265-0260	26-03-00 01-120	1				
			2230	GEAR GENERATOR IDLE	3860181-1	265-0265	26-04-00 01-160	1				
			2229	GEAR ASSY SPUR	3860182-2	265-3080	26-05-00 01-130	1				
			2231	GEARSHAFT GEN DRIVE	3860180-6	265-0264	26-06-00 01-200	1				
			2237	GEAR FAN IDLER	3860169-5	265-0120	26-08-00 01-140	1				
			5637	JET OIL	3862187-1	265-0136	26-10-00 01-250	1				
			5628	TUBE	3613699-1	265-3171	26-11-00 01-080	1				
			5636	TUBE	3862182-1	265-0135	26-11-00 01-240	1				

Effectivity 331-200ER

Gearbox mod "AV " I & C Sheet page 3 of 7

APU S/N	60189	EON	V507
		P.O.	

CAZ SHIP TO DATE

CAZ RET DATE

MODULE ORDER # LV507

MODULE SERIAL #

Inspection Use Only					Hardware Info					Stores Use			
E	A	C	OFF-LOG FUNC #	COND/ROUTING	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
1209A			5627		TUBE	3862185-3	265-0496	26-17-00 01-070	1209A				
			5638		TUBE	3862550-1	265-0137	26-12-00 01-260	1				
			5625		JET	3862444-2	265-3057	26-13-00 01-050	1				
			5624	DO NOT SHIP TO CAZ-UAL STOCKED	JET	3862140-5	265-0273	26-13-00 01-040	1				
			5626	DO NOT SHIP TO CAZ-UAL STOCKED	JET	3862140-4	265-0272	26-13-00 01-060	1				
			5633		TUBE TRANSFER	3862226-4	265-0501	26-14-00 01-210	1				
			2232		GEAR HI SPEED PINION	3860166-1	265-0261	26-16-00 01-150	1				
			5622		HOUSING FILLER	3862385-1	265-3192	26-21-00 01-020	1				
			5788		HOUSING GEN SCAVENGE	3880205-3	265-0313	90-02-01 60-000	1				
			5791		GEAR SPUR	3880204-2	265-3139	90-02-03 60-030	1				
			5792		GEARSHAFT	3860326-10	265-3076	90-02-03 60-040	1				
1209A			5793		~~GEARSHAFT~~	~~3860326-11~~	~~265-3077~~	90-02-03 60-050	1209A				

Gearbox mod "AV " I & C Sheet page 4 of 7 **(LV PARTS)**

APU S/N	60189	EON	V507
		P.O.	

CAZ SHIP TO DATE

CAZ RET DATE

MODULE ORDER # LV507

MODULE SERIAL #

Inspection Use Only					Hardware Info					Stores Use			
E	A	C	OFF-LOG FUNC #	COND/ROUTING	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
		I209A	5641	OSV	BEARING BALL STRTR GEAR (LV)	3860160-1	265-0259	26-00-01 05-020	1		1		
		I209A	9266	"	BEARING INNER RACE (LV)	3860495-1	265-3155	26-00-01 05-030	1		1		
		I209A	5649	"	BEARING BALL (LV)	892576-1	265-3646	26-00-01 05-060	1		1		
		I209A	5648	"	BEARING BALL SPLINED SHFT (LV)	3614423-1	265-0598	26-00-01 05-090	1		1		
I209A			5634		GEAR (LV) STARTER DRIVE	3860168-2	265-3058	26-07-00 05-040	1				
I209A			5640		CLUTCH ONE WAY (LV)	3611304-1	265-3090	26-07-01 05-080	1				
I209A			5639		PLUG (LV) STARTER DRIVE	3600053-1	265-0429	26-07-02 05-050	1				
I209A			5635		SHAFT SPLINE (LV)	3868023-1	265-3091	26-07-03 05-070	1				
I209A			5635		SHAFT SPLINE (LV)	DEC31-041 -501	265-3091	26-07-03 05-070	1				
I209A			5706		ADAPTER STRTR CLUTCH ASSY (LV)	3612120-1	265-3154	26-07-04 05-010	1				
		I209A		Disassy	LRU CLUTCH ASSY	3612844-1	265-3153		1				

NON EID PARTS BILL OF MATERIAL PARTS ONLY

331-200ER "AV" MODULE

EFF 331-200ER

APU S/N	60189	EON	V507
		P.O.	

CAZ SHIP TO DATE

CAZ RET DATE

MODULE ORDER # ..507

MODULE SERIAL #

Hardware Info							Stores Use			
COMMENT	IPC LOCATION	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
	49-11-01A-001A-402	WASHER SPRING	352723-10	265-0131		1				
	49-26-00A-000C-090	WASHER SPRING	352723-53	265-0416		1				
	49-26-00A-000D-096	AIR OIL SEPARATOR	3610852-1	265-3086		1				
100% REPLACEMENT	49-26-00A-000A-190	WASHER TENSION	3610875-2	265-3653		1				
	49-26-00A-000C-050	RETAINER	3612363-1	265-3162		1				
	49-26-00A-000C-080	RETAINER	3862133-1	265-0267		1				
	49-26-00A-000C-030	RETAINER	3862135-1	265-0268		1				
	49-26-00A-000C-020	RETAINER	3862136-1	265-0269		1				
	49-26-00A-000C-070	RETAINER	3862183-1	265-0281		1				
	49-26-00A-000B-060	RETAINER	3862184-1	265-0282		1				
	49-26-00-001-110	CAP & ADAPTER	428-259	265-3002		1				
	49-90-00A-000B-130	SEAL ASSY ENCASED	3880267-1	265-0319		1				
		PLUG MAG	P201	265-0338		2				

HISTORY PAGE

CAZ Qty Total =

ENTER REASON FOR REVISION

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	836359

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
HONEYWELL INTERNATIONAL - ENGINES, SYSTEMS & SERVICES (TSO) P.O. BOX 52181 PHOENIX, AZ 850722181 c/o HARDWARE PRODUCT GROUP 1405 W. 240TH ST. HARBOR CITY, CA 90710	2613790 002

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	BEARING 1 of 2 AN504 2 of 2	3614423-1 ****** LAST ITEM ******	TSO Article N/A	2 EA	Lot# 0311008294 MLOC:MBA6910	NEW

13. Remarks: EXPORT. DIRECT SHIPMENT AUTHORIZATION.

Customer P.O. # B41102
It is hereby certified that (a) the parts and/or materials reflected herein were produced under Federal Aviation Administration approved manufacturing and quality control systems/methods as set forth in FAA Production Approval to manufacture issued to Honeywell International Inc. and (b) such parts and/or materials are in an airworthy condition. Direct ship authorization from the Production Approval Holder is on file.

14. Certifies the items identified above were manufactured in conformity to:

[X] Approved design data and are in a condition for safe operation.

[ ] Non-approved design data specified in Block 13.

19. [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13

Certifies that, unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
Barry E. Franklin	ODARF602216NM		
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
Barry E. Franklin	11/07/03		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

*Installer must cross-check eligibility with applicable technical data.

Honeywell

HONEYWELL
HARDWARE PRODUCT GROUP
1405 W 240TH ST
HARBOR CITY, CA 90710

REFERENCE NO. 23123622 PAGE 1

PURCHASE ORDER NO B41102

CERTIFICATE OF CONFORMANCE

CUSTOMER CODE 3281

CUSTOMER RELEASE NO.

SOLD TO
CHROMALLOY ARIZONA
ATTN: ACCOUNTS PAYABLE
5161 W. POLK STREET
PHOENIX AZ 85043

SHIP TO
CHROMALLOY ARIZONA
ATTN: RECEIVING
5150 W. VAN BUREN ST.
PHOENIX AZ 85043

SALES ORDER NO 2613789

ITEM NO	QUANTITY SHIPPED	U/M	PART NUMBER / DESCRIPTION	Manufacturer Lot#	HPG Lot#
1 ***	2.00	EA	3614423-1 BEARING QTY: 2 MFG. NAME : Honeywell REV LEVEL : A	MBA6910	0311008294

End of Certificate

*** Items are supplied under direct ship authority and (a) were produced by approved manufacturing and quality control systems/methods as set forth in the applicable FAA Production Approval (PC413, TSOA or PMA) issued to Honeywell International Inc. and (b) are new and in airworthy condition.

This is to certify that all articles delivered on this order conform to all applicable blueprint and specification requirements. Evidence of such is on file with us and our suppliers subject to examination.

HONEYWELL - HARDWARE PRODUCT GROUP

David Shenfield

Quality Assurance Director

1. Approving National Aviation Authority/Country	2.	3. From Tracking Number:
FAA/United States	**AIRWORTHINESS RELEASE CERTIFICATE** FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	86127

4. Organizations Name and Address:	5. Work Order/Contract/Invoice Number:
Timken Aerospace Services (PBC), 336 Mechanic Street, Lebanon NH 03766 (USA)	B22256/8004969

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10 Quantity:	11. Serial/Batch Number:	12 Status/Work:
1	BEARING	3860160-1	N/A	ONE	*UA03 S1998-400*	Overhauled

13. REMARKS:

Work was performed In-Accordance With: TAS RSUAL, 49-20-01/AR02

14. Certifies the items identified above were manufactured in conformity to:	19. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13
☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13.	Certifies, that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No:	20. Authorized Signature:	21. Certificate Number:
		Belinda J. Butterfield	QPBR408K
17. Name (typed or printed):	**18. Date (m/d/yy)**	**22 Name (typed or printed):**	**23. Date (m/d/yy)**
		Belinda J. Butterfield	October 14, 2003

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with national regulations by the user/installer before the aircraft may be flow.

1. Approving National Aviation Authority/Country	2.	3. From Tracking Number:
FAA/United States	**AIRWORTHINESS RELEASE CERTIFICATE** FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	60 86690

4. Organizations Name and Address:	4. Work Order/Contract/ Invoice Number:
Timken Aerospace Services (PBC), 336 Mechanic Street, Lebanon NH 03766 (USA)	8005287/B22260

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10 Quantity:	11. Serial/Batch Number:	12 Status/Work:
1	BEARING	892576-1	N/A	ONE	UA04 S1998-107	Overhauled

13. REMARKS:

Work was performed In-Accordance With: TAS RSUAL 49-20-01/AR02

14. Certifies the items identified above were manufactured in conformity to:	19. ☒ 14 CFR 43.9 Return to Service Other regulation specified in Block 13
☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13.	Certifies, that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No:	20. Authorized Signature:	21. Certificate Number:
		RJ Barnum	QPBR408K
17. Name (typed or printed):	**18. Date (m/d/yy)**	**22. Name (typed or printed):**	**23. Date (m/d/yy)**
		RJ Barnum	February 6, 2004

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with national regulations by the user/installer before the aircraft may be flow.

UNITED AIRLINES ENGINE VISIT AD VERIFICATION

AOP PAI-45-05-00-13

ENGINE TYPE GTCP331-200 ENGINE SIN 62697 ORDER NO. VS28

AD NUMBER	TITLE	INSTRUCTIONS FOR APPLICABILITY	INSTRUCTIONS FOR VERIFICATION	BFOM VERIF
NO ACTIVE AIRWORTHINESS DIRECTIVES (AD)				NA

This report applies to this engine visit only. For Engine AD status, see United Airlines AD Compliance Record.

Signature [signature] Date 04/14/04

KEY: C/W = complied with this visit
PCW = previously complied with
N/A = not applicable this visit
FCW = factory complied with

CONTR DATE 1/6/08

OK.

OK,

IRMA BOZZI

APR 1 3 2004

SFOMR

Job Instruction Card

GTCP331-200 COVER PAGE, ENGINE TEST
REV. 06/06/03

V528	62697	V0103.0
ENGINE NO.	JOB NO.	

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

V0105.1 ISSUED IN ERROR

NOTE - RIGHT SIGN-OFF COLUMN FOR JOB ISSUED.
LEFT SIGN-OFF COLUMN FOR JOB COMPLETED.

1. THE FOLLOWING JOBS ARE SIGNED OFF CORRECTLY OR ACCOUNTED FOR PROPERLY.
2. ALL ITEMS THAT ARE 'X'ED OUT ARE NOT REQD. THIS VISIT.

X460		
X460		V0103.5 DIAGNOSTIC RUN AND SERVICE BEFORE TEST.
X460	1977	V0104.0 SERVICE BEFORE TEST.
X460	1977	V0105.1 ENGINE - TEST / RUN SHEET.
X460	197	*V0105.2 PRESERVATION (ENGINE TEST) PART 1
X460	197	V0106.0 SERVICE AFTER TEST.
X460	197	*V0106.1 PRESERVATION (SAT) PART 2
X460	197	V0106.5 SERVICE AFTER TEST LEAD CHECK.
X460	1977	V0106.6 SERVICE AFTER TEST LEAD RECHECK.
X460	X460	V0106.7 TEST CELL REPAIRS.
		V0110.0 ENGINE SHIPPING.

3. THE FOLLOWING NON-ROUTINE CARDS ARE SIGNED OFF CORRECTLY AND ACCOUNTED FOR. BLANK SPACES INDICATE NO NON-ROUTINES WERE ISSUED.

N/R #	SIGN OFF	N/R #	SIGN OFF	N/R #	SIGN OFF
4616	X460				

(SFOPB)COORDINATOR X460 DATE Apr. 27, 2004

W/C 551 SRB

END JOB V-0103.0 REVISED 06/06/03

PAGE 1

X460 X460 V0105.1 ENGINE-TEST/RUN SHEET

UNITED

Job Instruction Card

GTCP 331 APU RELEASE FORM
REV. 08/01/03

V528 | 62697 | V1522.0
ORDER NO. | ENGINE NO. | JOB NO.

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

1. 1977 I *REVIEW "ENGWRK" DISPLAY IN UNIMATIC TO ENSURE ALL *ASSIGNED "ELR'S" ARE CLEARED AND ARE RECORDED IN *APU AMIS FILE.

2. 1977 I *ACCOMPLISH "ENGVST" TRANSACTION IN UNIMATIC TO RECORD *THE ENGINE VISIT WORK COMPLETION. RECORD IN "ENGWRK" *DISPLAY ANY OTHER OPEN ITEMS TO BE ACCOMPLISHED *DURING APU INSTALLATION.

3. 1977 I ACCOMPLISH COMPUTER ENGINE FINAL RECORD CHECK TRANSACTION "ENGFRC". INITIATE AND COMPLETE INSPECTION PORTION OF SERVICEABLE TAG.

4. 1977 L REPAIR AREA REVIEW DECISIONS HAVE BEEN ACCOMPLISHED. ENGINE IS READY FOR TEST.

5. X460 ALL JOB CARD AND NON-ROUTINE DOCUMENTATION IS CLEARED AND ACCOUNTED FOR. FORWARD LOG PACKAGE TO ENGINE RECORDS.

6. 1977 L VERIFY FORM D-199 IS PRESENT AND COMPLETE SERVICEABLE TAG.

7. 1977 L AFTER TEST RUN INFORMATION: FINAL RUN IS GOOD, YES X NO____ IF 'NO', LIST CAUSE OF REJECT. _____

8. 1977 L MAKE A COPY OF THE COMPLETED ENGINE SERVICEABLE TAG (BOTH FRONT AND BACK SIDES) AND INCLUDE IT WITH THE COMPLETED LOG PACKAGE.

1977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

UNITED

GTCP 331 APU RELEASE FORM
REV. 08/01/03

DETAILS OF ITEMS STARTED BUT NOT SIGNED OFF

V528 (MODEL) 62697 (ENGINE NO) V1522.0 (JOB NO)

9. FOREMAN OR DESIGNEE SIGNATURE VERIFIES THAT ENGINE IS SERVICEABLE, THERE ARE NO RESTRICTIONS AND ALL DEVIATIONS ARE CLOSED.

FOREMAN OR DESIGNEE John Stoker DATE 4-27-04

551 LAH

END JOB V-1522.0 REVISED 08/01/03

1977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

GTCP331-200 DIAGNOSTIC RUN AND SERV. BEFORE TEST
REV. 03/12/02

V528 62697 V0103.5
ORDER NO. ENGINE NO. JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

NOTE - NO PARTS REPLACEMENT ALLOWED WITHOUT SFOEP CONCURRENCE.

NOTE - SET TORQUE WRENCH TO THE TORQUE VALUE SPECIFIED. IF NO TORQUE VALUE IS SPECIFIED, USE STANDARD TORQUE PER GN-8-0-2-14.

CAUTION - SCRAP ANY SELF LOCKING NUT WHICH CAN BE TURNED PAST ITS LOCKING FEATURE BY HAND.

M 6526 1. REMOVE THE FOLLOWING AND CHECK FOR METAL.
A. GEARBOX MAGNETIC CHIP DETECTOR.
B. GENERATOR MAGNETIC CHIP DETECTOR.
C. REINSTALL CHIP DETECTORS.

M 6526 2. REMOVE THE FOLLOWING AND CHECK FOR METAL.
A. TURBINE MAGNETIC CHIP DETECTOR.
B. COMPRESSOR MAGNETIC CHIP DETECTOR.
C. RE-INSTALL CHIP DETECTORS.

M 6526 3. REMOVE MONOPOLE AND CHECK FOR METAL. INSTALL MONOPOLE.

M 6526 4. REMOVE OIL FILTER ELEMENT AND CHECK FOR METAL. INSTALL NEW FILTER ELEMENT.

M 6526 5. REMOVE GENERATOR OIL SCAVENGE FILTER AND CHECK FOR METAL. INSTALL NEW SCAVENGE FILTER.

X I 6. ENGINE TO BE COMPLETELY DISASSEMBLED, AND ALL MODULES TO BE ROUTED FOR DISASSEMBLY. NO FURTHER INSPECTION SIGN-OFFS REQUIRED.

I 7. VISUALLY INSPECT ALL DRIVEN COMPRESSOR IMPELLER BLADES FOR DAMAGE AND/OR IRREGULARITIES, INCLUDING LEADING AND TRAILING EDGE WITH BOROSCOPE. ALSO VISUALLY INSPECT POWER SECTION C1 IMPELLER BLADES FOR DAMAGE AND IRREGULARITIES.

M 6526 8. INSTALL FUEL INLET QUICK DISCONNECT FITTING.

L977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

UNITED

M 6526 9. INSTALL FUEL PRESSURE TEST TEE FITTING & ADAPTER TUBE.
M 6526 10. INSTALL REDUCER AND OIL TEMPERATURE BULB IN GEARBOX.
M 6526 11. INSTALL UNION IN OIL PUMP PRESSURE TEST PORT.
M 6526 12. INSTALL MAIN ELECTRICAL HARNESS ADAPTER.
M 6526 13. INSTALL GENERATOR HARNESS.
M 6526 14. CONNECT STARTER HARNESS LEADS TO STARTER TERMINALS.
HOLD BOTTOM NUT WITH WRENCH, TORQUE POSITIVE TOP NUT 80 LB. IN.
HOLD BOTTOM NUT WITH WRENCH, TORQUE NEGATIVE TOP NUT 50 LB. IN.
M 6526 15. INSTALL TEST CELL EXHAUST PIPE, TORQUE CLAMP.
M 6526 16. INSTALL INLET PLENUM SCREEN.
L977 L 17. LEAD CHECK - GENERAL SECURITY CHECK - PRIOR TO TEST. WRENCH CHECK.

551 JAS

END JOB V-0103.5 REVISED 03/12/02

L977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

GTCP331-200 SERVICE BEFORE TEST
REV. 08/04/03

V528	62697	V0104.0
ENGINE NO		JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

NOTE - SET TORQUE WRENCH TO THE TORQUE VALUE SPECIFIED. IF NO TORQUE VALUE IS SPECIFIED, USE STANDARD TORQUE PER GN-8-0-2-14.

CAUTION - SCRAP ANY SELF LOCKING NUT WHICH CAN BE TURNED PAST ITS LOCKING FEATURE BY HAND.

-----PREPARE FOR TEST-----

M 6956 1. INSTALL REAR ENGINE MOUNTS. TORQUE TO 80-100 IN. LBS. AND SAFETY WIRE (.032 WIRE).

M 6956 2. INSTALL FUEL INLET QUICK DISCONNECT FITTING.

M 6956 3. INSTALL FUEL PRESSURE TEST TEE FITTING & ADAPTER TUBE.

M 6956 4. INSTALL REDUCER AND OIL TEMPERATURE BULB IN GEARBOX.

M 6956 5. INSTALL INLET TEMPERATURE FRAME.

M 6956 6. INSTALL MAIN ELECTRICAL HARNESS ADAPTER.

M 6956 7. INSTALL PS3 TEST TUBE. HANG PCD2 TUBE IN CONVIENT LOCATION TO BE INSTALLED DURING SERVICE AFTER TEST.

M 6956 8. CONNECT STARTER HARNESS LEADS TO STARTER TERMINALS.
HOLD BOTTOM NUT WITH WRENCH, TORQUE POSITIVE TOP NUT 80 LB. IN.
HOLD BOTTOM NUT WITH WRENCH, TORQUE NEGATIVE TOP NUT 50 LB. IN.

M 6956 9. INSTALL TEST CELL EXAHUST PIPE, TORQUE CLAMP.

1977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ONLY IF ITEMS BEARD BUT NOT SIGNED OFF

M 6956 10. REMOVE ALL SURPLUS PARTS FROM STALL SHELVES AND ROUTE TO PROPER DESTINATION.

M 6956 11. CLEAN ALL STALL SHELVES.

L 12.*VERIFY AND CLEAR ALL "ELR'S" BY REVIEWING "ENGWRK" *DISPLAY IN UNIMATIC APU AMIS FILE.

1977 L 13. LEAD CHECK - GENERAL SECURITY CHECK - PRIOR TO TEST, WRENCH CHECK.

551 JAS

END JOB V-0104.0 REVISED 08/04/03

1977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

GTCP331-200 ENGINE - TEST / RUN SHEET
REV. 11/12/03

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

MODEL NO.	ENGINE NO.	JOB NO.
V528	62697	V0105.1

DATE OF TEST RUN 4-13-04 TEST CELL # 1

M 6949 1. INDICATE TYPE OF RUN. STAMP A, B, C, D OR E BELOW:

A) _____ DIAGNOSTIC RUN
B) 6949 REPAIR RUN POWER SECTION REFURBISHMENT
C) _____ REPAIR RUN NO POWER SECTION REFURBISHMENT
D) _____ IDLE LEAK CHECK
E) _____ OIL CONSUMPTION

M 6949 2. CHECK AND SERVICE OIL QUANTITY PRIOR TO ENGINE TEST. DUPLICATE SIGN-OFF ON JOB V0101.2

M 6949 3. INSTALL AND/OR CONFIRM ENGINE IS SECURED IN A RUN STAND.

M 6949 4. INSTALL VIBRATION EQUIPMENT.

M 6949 5. SECURE ENGINE IN TEST CELL PER ENGINE MANUAL TESTING SECTION 49-20-00.

M 6949 6. CHECK ENGINE AND CELL FOR CLEANLINESS AND SECURITY BEFORE ATTEMPTING ENGINE START. CHECK INLET AND EXHAUST FOR FOREIGN MATERIAL.

NOTE - TEST CELL OPERATOR HAS THE OPTION OF RUNNING THE APU IN MANUAL OR AUTO MODE.

M 6949 7. ACCOMPLISH ALTITUDE SIMULATION BLANKING PLATE PERFORMANCE TEST.

M 6949 8. PERFORM TEST OPERATIONS PER ENGINE MANUAL TESTING

L977
L ALL ITEMS ARE PROPERLY SIGNED OFF.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

#9 Air Starter Ass. 330 DE Turned R.S. End Over 1 Turn Same Result 83 DCF. Add'l Air Hd Accept 30 Cartridge Gen Surge/Anti Test Passed. 6949

SECTION 49-20-00.

DID COOLING FAN VIBRATION EXCEED 1.0 IPS?
____ A. IF YES, REMOVE GENERATOR, INSTALL COVER PLATE AND REPEAT TEST. IF VIBRATION FALLS BELOW .6 IPS, REPLACE THE GENERATOR. IF VIBRATION IS HIGHER THAN .6 IPS, REPLACE THE COOLING FAN AND REPEAT TEST.

6949 B. IF NO, CONTINUE WITH TEST

M 6949 9. IF UNABLE TO PASS THE SURGE SYSTEM TEST AFTER TROUBLESHOOTING STEPS HAVE BEEN TAKEN, PROCEED TO ACCOMPLISH A COMPRESSOR STALL CHECK PER ENGINE MANUAL TESTING SECTION 49-20-00, TO DETERMINE PUEUMATIC STABILITY OF THE LOAD COMPRESSOR. RECORD DCF RECORD DCF ACCOMPLISHED.

DCF 83 6949

L977 LM 6949 10. ----- CONTINUOUS AIRWORTHINESS ITEM -----
CHECK FUEL MANIFOLD HOSE TO ATOMIZER FOR EVIDENCE OF LEAKING.

(6949)OK
( )NOT OK

NO EVIDENCE OF LEAKING ALLOWED.
LIST ALL REPAIRS ON JIC V0106.7.

M 6949 11. SMOKE CHECK - WITH ENGINE OPERATING AT NO-LOAD, CHECK EXHAUST STACK FOR SMOKE. IF EXCESSIVE BLACK SMOKE OR ANY WHITE SMOKE IS OBSERVED, CONTACT SFOEP PERFORMANCE.

M 6949 12. REMOVE FUEL TEST "T" FITTING AND RECONNECT FUEL LINE AND LEAK CHECK IT.

977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruct on Card

GTCP331-200 ENGINE - TEST / RUN SHEET
REV. 11/12/03

V528 | 62697 | V0105.1
ENGINE NO | JOB NO

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

M 6949 13. NON ROUTINE CELL WORK NOT'd IL'Y RIA ENG, NOT'd PLATFORM 6949

M 6949 14. CHECK OIL LEVEL AND SERVICE AS REQUIRED.

M 6949 15. PARTS CHANGED IN TEST CELL.
NOMENCLATURE S/N OFF S/N ON REASON FOR REPLACEMENT

L977 6949 NONE

L977 LM 6949 16. CHECK MAIN OIL SCREEN FOR FOREIGN MATERIAL.
"NO METAL ALLOWED"
SCREEN CONDITION OKAY. YES 6949 NO ____
IF YES, REPLACE FILTER.
IF NO, CONTACT FOREMAN FOR RE-REVIEW OF APU.

NOTE - TAG AND ROUTE ALL PARTS CHANGED TO HOME SHOP.

M 6949 17. REMOVE VIBRATION EQUIPMENT.

L977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

GTCP331-200 ENGINE - TEST / RUN SHEET
REV. 11/12/03

V528	62697	V0105.1
MODEL NO.	ENGINE NO.	JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

= IS NOT RC'D 6949
UAL APU 6949

M 6949 18. IF ENGINE IS TO BE PRESERVED, REQUEST JIC V0105.2 FROM SCHEDULE CENTER.

APU IS TO BE PRESERVED YES ____ NO 6949

6949
X .M 19.*CUSTOMER ENGINES ONLY: VIDEO BORESCOPE SERVICE AFTER TEST INSPECTION REQUIRED. REQUEST FROM SCHEDULE CENTER JIC V0108.0

L977 L 20.*VERIFY JIC V0108.0 IS COMPLETE.

M 6949 21. MAKE TWO COPIES OF TEST SUMMARY SHEET. ATTACH ONE COPY TO TEST J.I.C. AND PROVIDE THE OTHER COPY ALONG WITH TEST LOG PACKAGE TO ENGINEERING.

L977 LM 6949 22. TESTED OK 6949 NOT OK ____

TCR FOR _____ EVA REQUESTED _____

IF TCR, THE FOLLOWING MUST BE SIGNED OFF AND DATED.
SHOP FORMAN _____ DATE _____
ENGINEER _____ DATE _____

551 JAS

END JOB V-0105.1 REVISED 11/12/03

L977
_____L ALL ITEMS ARE PROPERLY SIGNED OFF.

UNITED

Job Instruction Card

GTCP331-200 SERVICE AFTER TEST
REV. 12/30/03

V528 62697 V0106.0
ORDER NO. ENGINE NO. JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

NOTE - SET TORQUE WRENCH TO THE TORQUE VALUE SPECIFIED. IF NO TORQUE VALUE IS SPECIFIED, USE STANDARD TORQUE PER GN-8-0-2-14.

CAUTION - SCRAP ANY SELF LOCKING NUT WHICH CAN BE TURNED PAST ITS LOCKING FEATURE BY HAND.

M 6949 1. REMOVE TESTCELL EXHAUST PIPE AND CLAMP.

M 6949 2. REMOVE TESTCELL STARTER HARNESS. TIGHTEN STARTER TERMINAL NUTS FINGER TIGHT.

M 6949 3. REMOVE GENERATOR HARNESS.

M 6949 4. REMOVE MAIN ELECTRICAL HARNESS ADAPTER.

M 6949 5. REMOVE VIBRATION PICK-UPS.

M 6949 6. REMOVE PS3 TEST TUBE AND REINSTALL PCD2 TUBE.

M 6949 7. INSTALL GENERATOR TERMINAL COVER.

M 6949 8. REMOVE OIL TEMPERATURE BULB AND REDUCER FROM GEARBOX. INSTALL PLUG AND O-RING. TORQUE PLUG.

M 6949 9. REMOVE FUEL INLET QUICK DISCONNECT FITTING. INSTALL UNION AND O-RING. TORQUE UNION AND THEN CAP.

#10 NO. 7500
UAL APU. 6949

L977 LM 6949 10. CUSTOMER ONLY: VIDEO BORESCOPE REQUIRED, REQUEST JIC V0108.0 FROM SCHEDULE CENTER. PREPARE ENGINE FOR BORESCOPE ACCESS.

L977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

UNITED

Job Instruction Card

GTCP331-200 SERVICE AFTER TEST
REV. 12/30/03

V528 62697 V0106.0
ENGINE NO. JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

	I	11. CUSTOMER ONLY: VIDEO BORESCOPE LOAD COMPRESSOR IMPELLER LEADING EDGE AND TRAILING EDGE BLADES. C1 IMPELLER LEADING EDGE AND TRAILING EDGE BLADES. C1 VOLUTE AND LOAD COMPRESSOR VOLUTE. INSPECT PER EID 49-10-01 CRITERIA LIMITS. REQUEST JIC V0108.0 FROM SCHEDULE CENTER.
11 12 NOT AFO'D UAL A.A.L. 6949	M 6949	12. REINSTALL PARTS REMOVED FOR BORESCOPE ACCESS.
	M 6949	13. PROVIDE ENGINE MOUNT NUTS AND WASHERS IN CLOTH BAG ATTACHED TO LEFT REAR ENGINE MOUNT.
	M 6949	14. RE-TORQUE AFT SCAVENGE PUMP ASSEMBLY NUTS TO 90 LB. IN. INSTALL TAIL CONE, SPACER AND SCREWS AND TORQUE TO 50 LB. IN.
	M 6949	15. CHECK GEARBOX VENT LINE AT TURBINE EXHAUST FOR OIL WETNESS. MAXIMUM OIL DRIPPINGS IS 150 DROPS OR 10CC TOTAL.
	M 6949	16. CHECK OIL LEVEL AND SERVICE AS REQUIRED.
	M 6949	17. DRAIN FUEL FROM FILTER BOWL AND REINSTALL FILTER BOWL.
	M 6949	18. VERIFY DRAIN MAST FITTINGS ARE IN UPPER HOLES OF DRAIN MAST PER IPC. (REF. IPC 50/60/65-49-16-00-011). 50-49-16-00-011 60-49-16-00-011 65-49-16-00-011
L977	L	--------CONTINUOUS AIRWORTHINESS ITEMS ---------- CHECK SAFETY.

L977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

V528 62697 V0106.0
SERIES ENGINE NO. JOB NO.

STATUS OF ITEMS STARED BUT NOT SIGNED OFF

L977 L 19. ROTATE ENGINE AND CHECK FOR UNUSUAL NOISES AND FOR FREEDOM OF ROTATION.

CAUTION - ROTATE ENGINE AFTER ENGINE HAS COOLED.

L977 L 20. CHECK SAFETY OF MAIN OIL SCREEN

#21 PREVIOUSLY ACP'D ON GEAR BOX BUILD 6949

M 6949 21. INSTALL EXXON 2389 PLACARD (265-2389) ON FORWARD SIDE OF OIL FILLER HOUSING. REMOVE OTHER OIL PLACARDS.

M 6949 22. INSTALL COVERS, CAPS OR PLUGS ON ALL APU OPENINGS.

M 6949 23. PERFORM SECURITY AND SAFETY CHECK OF ENGINE.
CHECK ALL TUBE AND HOSE NUTS FOR SECURITY.
ASSURE THAT FUEL NOZZLES ARE SECURE AND SAFETIED.
CHECK ELECTRICAL CONNECTORS FOR SECURITY. SAFETY AS REQUIRED.

#24 NOT ACP'D 6949

M 6949 24. IF ENGINE IS TO BE PRESERVED, REQUEST JIC V0106.1 FROM SCHEDULE CENTER.

L977 L 25. LEAD - FINAL CHECK OF ENGINE.
CHECK THAT SERVICEABLE TAG IS PRESENT IN PLASTIC ENVELOPE.
CHECK THAT V0108.0 IS COMPLETE.

551 JAS

END JOB V-0106.0 REVISED 12/30/03

L977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

331 SERVICE AFTER TEST LEAD CHECK

REV. 06/05/03

V528	62697	V0106.5
SHIPPING NO.	ENGINE NO.	JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

NOTE - RECORD ALL DISCREPANCIES ON SERVICE AFTER
* TEST LEAD RECHECK JOB CARD V0106.6

L977 L	1. VERIFY ALL REPAIRS TO BE ACCOMPLISHED DURING OR AFTER TEST HAVE BEEN PROPERLY COMPLETED.
L977 L	2. CHECK FOR FREEDOM OF ROTATION AFTER ENGINE HAS COOLED. CHECK FOR UNUSUAL NOISES.
L977 L	3. CHECK INLET AND EXHAUST FOR DEBRIS, F.O.D. OR OBVIOUS DAMAGE.
L977 L	4. CHECK GENERATOR, STARTER AND MAIN ELECTRICAL CONNECTORS FOR BENT, BURNED OR PUSHED BACK PINS OR SOCKETS.
L977 L	5. CHECK THAT ALL CAPS AND PLUGS ARE INSTALLED, TIGHT AND, IF NECESSARY, SAFTIED.
L977 L	6. CHECK THAT PROPER MANUFACTURER ENGINE IDENTIFICATION DATA PLATE IS INSTALLED ON LOWER INLET PLENUM AND INSPECTION PLATE INSTALLED AND SECURE.
L977 L	7. CHECK THAT UA S/N I.D. PLATE IS INSTALLED BELOW GEARBOX. CHECK ALL MOUNTED ACCESSORIES FOR PROPER INSTALLATION.
L977 L	8. CHECK THAT ENGINE MOUNT AND SHIPPING MOUNT BOLTS ARE INSTALLED AND TIGHTENED AFTER APU IS INSTALLED IN SHIPPING STAND.
L977 L	9. CHECK THAT NEW ENGINE MOUNT NUTS AND WASHERS ARE PROVIDED IN CLOTH BAG ATTACHED TO LEFT AFT MOUNT.
L977 L	10. CHECK THAT ALL PROTECTIVE COVERS ARE INSTALLED ON INLET AND EXHAUST.

SRB

END JOB V-0106.5 REVISED 06/05/03

UNITED

Job Instruction Card

331 TEST CELL REPAIRS

REV. 04/10/00

V528 (ENGINE NO.) 62697 (JOB NO.) V0106.7

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

NOTE - USE THIS JIC TO RECORD ANY WORK ACCOMPLISHED IN THE TEST CELL OTHER THAN THE TEST ITSELF.

NOTE - LEAD, SIGN-OFF IN LEFT HAND COLUMN. MECHANIC, SIGN-OFF IN RIGHT HAND COLUMN.

NOTE - IF NO DISCREPANCIES FOUND, WRITE NONE.

			DISCREPANCY OR ACTION
X	LM	X 6949	REINSTALL ICU ROD COVER AFTER TEST RUN
L977	LM	6949 6949	INSTALLED COVER
X	LM	X	SAFETY FLOW SENSE PLATFORM LOCK BOLT 6949
L977	LM	6949	SAFETY LOCK BOLT
X	LM	X 6949	REINSTALL INLET SCREENS AND BUSHING 6949
L977	LM	6949	INSTALLED SCREENS
	LM		
	LM		
	LM		

6949 6949 L977 551 LAH

END JOB V-0106.7 REVISED 04/10/00

PAGE 1

L977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

GTCP331 APU ENGINE SHIPPING
REV. 11/22/85

V528 | 62697 | V0110.0
ENGINE NO. | JOB NO.

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

M 6949 1. ATTACH LIFTING SLING TO ENGINE AND REMOVE ENGINE FROM RUN OR BUILD STAND.

L977 L 2. CHECK ENGINE MOUNTS FOR SECURITY OF INSTALLATION ON ENGINE.

M 6949 3. POSITION ENGINE IN SHIPPING STAND AND SECURE WITH SAFETY PINS ON ENGINE MOUNTS.

L977 L 4. CHECK ENGINE FOR SECURITY AND PROPER INSTALLATION IN SHIPPING STAND.

*551 LAH

END JOB V-0110.0 REVISED 11/22/85

L977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

GTCP331-200 OEM COMPONENT MAINTENANCE MANUAL DATE
REV. 02/24/04

V528 62697 V0001.0
PROFILE NO. ENGINE NO. JOB NO.

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

DISASSEMBLY AND BUILD PROCEDURES OF THE ENGINE ARE ACCOMPLISHED USING THE OEM MANUAL AS A BASELINE. MINOR ADJUSTMENTS MAY HAVE BEEN MADE TO THE DISASSEMBLY AND BUILD PROCEDURES UTILIZING INDUSTRY ACCEPTED PRACTICES. THE FINAL PRODUCT MEETS THE OEM INTENT THROUGH FORM, FIT, AND FUNCTION.

REFERENCE HONEYWELL COMPONENT MAINTENANCE MANUAL GTCP 331-200, REV 15, DATED SEPTEMBER 29, 2000.

551 JAS

END JOB V-0001.0 REVISED 02/24/04

1977
L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE RECORDS

LOG CERTIFICATION FORM D-199

REF: PAOP 45-55-30-04

CONTROLLED DOCUMENT - DO NOT DUPLICATE

ALL PORTIONS OF BUILD LOGS ARE COMPLETE AND ACCURATE FOR ENGINE/STAND-ALONE MODULES:

Serial Number 62697

Repair Order Number V528

Power Rating 331-200E

IN ADDITION, THE A.D. VERIFICATION CHECKLIST (AS SUPPLIED BY SFOEP) IS ON FILE IN SFOMR/PA AS PART OF THE ENGINE LOG.

THE FOLLOWING ITEMS MUST BE CLEARED BEFORE THE ENGINE/STAND-ALONE MODULE IS RELEASED: (IF NONE, SO STATE)

NONE

SFOMR/PA: _____ **Date** 04/14/2004

IRMA BOZZI

FOR SFOMR / PA USE ONLY

WHEN ENGINE MAINTENANCE RETURNS THIS D-199 TO SFOMR/PA AS A RESULT OF A TEST CELL INTERRUPT (TCI) OR A TEST CELL REJECT (TCR), FILL OUT THE FOLLOWING INFORMATION:

REASON: **TCI or TCR?** _____

SFOMR/PA: _____ **Date** _____

(SIGNATURE HERE RENDERS THIS D-199 NULL AND VOID)

SFR4568

REVISED 01/09/2004
(ALL PRIOR DATES OBSOLETE)

ORIGINAL

V528

* DEFINITIONS

REMOVAL CODES

REPAIR SHOP DATA -

* SHIP & STORE IN CONTAINER
HCS CONTROLLED PART

* DANGEROUS GOODS

UNITED I & R TAG

SHIP, STORE IN CNTNR

I & R TAG
UAL 2349/UAL 2349
REV 12/86

OFF DIST | P/N | PART NO | NAME | CASH NO OFF | SER NO IF NO DASH

ON UNIT 265 9101 MR49112 APU | DASH NO ON | MFG SERIAL 6207 | UTILS

SHOP ROUTING	MAINT SHOP	FS	551	F74	551						551	EWR	N
											FLAME SHOT	COMPLYING	RE-INSTALLED
	X	L977			L977						DATE ZERO TIMED		QUANTITY

THE TERM "SERVICEABLE" WHEN USED HEREIN MEANS A PART WHICH HAS BEEN INSPECTED AND PERFORMED & COMPLETED IN ACCORDANCE WITH EACH SPECIFIC & CONFORMS TO CURRENT FAR'S WHEN SIGNED IN THE [illegible] WITH RESPECT TO THE WORK PERFORMED PERTINENT INSPECTION FILE AT UAL AIR CARRIER CALIFORNIA & [illegible] AT UAL AIRPORT SERVICE INTERNATIONAL AIRPORT, CA 94128

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED		COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
		TAIL NO OR A/C DASH NO		TACH TIME		DATE	

REMOVAL & INSTALLATION DATA

REASON FOR REMOVAL OR REPORTED TROUBLE

1 ☐ TIME
2 ☐ TROUBLE
3 ☐ OTHER

-767 FR*/FIM--------

SIGNATURE (OR STAMP) & FILE NO

REPORTABLE UNIT-MRDATA TRANSACTION REQUIRED

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

PROCEDURES MM 7041 ACP 331

P/N 265 9101
SER 93
265 | EWR
DATE | STATION

8444
John Stokes

REMARKS
INSPECTED
A/C DATA
STATION
SIGNATURE

UNITED

FSEM443A
03/17/04

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
LIMIT PLANNING REPORTS FOR UNIT

REASON: AT REMOVAL
SERIAL NUMBER 62697 ENGINE TYPE V
ORDER NUMBER V528 MODULE TYPE

REQUESTOR: REMOVAL
ENGINE NAME APU331
MODULE NAME

PHONE:
CUST CODE UA
WORK CENTER 551

ORG:

WORK CENTER: 551 TSN: 07556 CSN: 08029 TSLM: 07556 CSLM: 08029 TSLV: 07556 CSLV: 08029

SERIAL NBR	ET	MT	NAME	POWER	CUST	LIMIT TYPE	LIMIT VALUE	UNIT ACCUMULATION	REMAINING VALUE	LIMIT IN NLA UNIT	HARD LIMIT NLA LOWEST REMAINING
62697		V	APU331	200E	UA					A X B	
											C 11971

ORDER NUMBER	REASON REMOVED OR MAINTENANCED	DATE MAINT
V528	LOW PNEUMATIC PRESS	03/17/04

MODULE LIMIT SUMMARY - HARD AND THRESHOLD

NAME	MT	SERIAL NBR	COMMENTS	LIMIT TYPE	LIMIT VALUE	MODULE ACCUMULATION	REMAINING VALUE	LIMIT IN NLA UNIT	HARD LIMIT NLA LOWEST REMAINING
DRIVEN COMP SE	F	P-2167		X	007000	07556 TSMDPI	******		
				X	007000	08029 CSMDPI	******		
POWER SECTION	N	P-2155		X	005000	07556 TSMDPI	******	A X B	
				X	005000	08029 CSMDPI	******		C 11971
GEARBOX ASSMBLY	A	P-1615		X	008000	07556 TSMDPI	00444		

REASON: AT REMOVAL
SERIAL NUMBER 62697
ORDER NUMBER V528

ENGINE TYPE V
MODULE TYPE

REQUESTOR: REMOVAL
ENGINE NAME APU331
MODULE NAME

PHONE:
CUST CODE UA
WORK CENTER 551

ORG:

SERIAL NBR	ET	MT	NAME	POWER	CUST
62697		V	APU331	200E	UA

ORDER NUMBER V528

REASON REMOVED OR MAINTENANCED
LOW PNEUMATIC PRESS

DATE MAINT
03/17/04

FUNCTION LIMITS BY NHA - HARD AND THRESHOLD

NHA NAME MT SERIAL NBR

DRIVEN COMP SE F P-2167

FUNC POS NAME	SERIAL NBR PART NUMBER	COMMENTS	LIMIT TYPE	LIMIT VALUE	FUNCTION ACCUMULATION		REMAINING VALUE
00989 001 IMPELLER-DRCOMP	99-10-4566 3822080-3		X	010000	07556	TSDPI	02444

NHA NAME MT SERIAL NBR

POWER SECTION N P-2155

FUNC POS NAME	SERIAL NBR PART NUMBER	COMMENTS	LIMIT TYPE	LIMIT VALUE	FUNCTION ACCUMULATION		REMAINING VALUE
01009 001 T3 WHEEL ASSY	99-50-5751 3840022-3		H	025000	08029	CSN	16971
			B	012000	08029	CSN	03971
01007 001 DISK T2 TURBINE	99-10-2569 3840007-1		H	020000	08029	CSN	11971
			X	005000	07556	TSDPI	******
			X	005000	08029	CSDPI	******
01004 001 DISK T1 TURBINE	99-70-0757 3840019-1		H	020000	08029	CSN	11971
			X	005000	07556	TSDPI	******
			X	005000	08029	CSDPI	******
01014 001 NOZZLE SET FRIM	UA003I5688 33INOZFRI1		A	006000	07556	TSDPI	******
			B	003000	07556	TSDPI	******

REASON: AT REMOVAL
SERIAL NUMBER 82697
ORDER NUMBER V528

ENGINE TYPE V
MODULE TYPE

REQUESTOR: REMOVAL
ENGINE NAME APU331
MODULE NAME

PHONE:

ORG:
CUST CODE UA
WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST
82697	V		APU331	200E	UA

ORDER NUMBER	REASON REMOVED OR MAINTENANCED	DATE MAINT
V528	LOW PNEUMATIC PRESS	03/17/04

FUNCTION LIMITS BY NHA - HARD AND THRESHOLD

NHA NAME MT SERIAL NBR

POWER SECTION N P-2155

FUNC POS NAME	SERIAL NBR PART NUMBER	COMMENTS	LIMIT TYPE	LIMIT VALUE	FUNCTION ACCUMULATION	REMAINING VALUE
01015 001	UA00315689		A	006000	07556 TSDPI	******
NOZZLE SET SECD	331NDZSEC1		B	003000	07556 TSDPI	******

UNITED

PSEN443A
03/17/04

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
THRESHOLD LIMIT REPORTS FOR UNIT

REASON: AT REMOVAL
SERIAL NUMBER 62897
ORDER NUMBER V528

ENGINE TYPE V
MODULE TYPE

REQUESTOR: REMOVAL
ENGINE NAME APU331
MODULE NAME

PHONE:

ORG:

CUST CODE UA
WORK CENTER 551

WORK CENTER: 551 TSN: 07556 CSN: 08029 TSLM: 07556 CSLM: 08029 TSLV: 07556 CSLV: 08029

SERIAL NBR	ET	MT	NAME	POWER	CUST	LIMIT TYPE	UNIT ACCUMULATION	NLA LIMITS THIS EMD
62697	V		APU331	200E	UA			A X B

ORDER NUMBER V528

REASON REMOVED OR MAINTENANCED
LOW PNEUMATIC PRESS

DATE MAINT
03/17/04

MODULE THRESHOLD LIMIT SUMMARY

NAME	MT	SERIAL NBR	COMMENTS	LIMIT TYPE	MODULE ACCUMULATION	NLA LIMITS THIS EMD
DRIVEN COMP SE	F	P-2167		X	07556 TSMDPI	
				X	08029 CSMDPI	
POWER SECTION	N	P-2155		X	07556 TSMDPI	A X B
				X	08029 CSMDPI	

REASON: AT REMOVAL
SERIAL NUMBER 62697
ORDER NUMBER V528

ENGINE TYPE V
MODULE TYPE

REQUESTOR: REMOVAL
ENGINE NAME APU331
MODULE NAME

PHONE:

ORG:

CUST CODE UA
WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST
62697	V		APU331	200E	UA

ORDER NUMBER	REASON REMOVED OR MAINTENANCED	DATE MAINT
V528	LOW PNEUMATIC PRESS	03/17/04

FUNCTION THRESHOLD LIMITS BY NHA

NHA NAME MT SERIAL NBR

POWER SECTION N P-2155

FUNC FOS NAME	SERIAL NBR PART NUMBER	COMMENTS	LIMIT TYPE	LIMIT VALUE	FUNCTION ACCUMULATION
01007 001	99-10-2589		X	005000	07556 TSDPI
DISK T2 TURBINE	3840007-1		X	005000	08029 CSDPI
01004 001	99-70-0757		X	005000	07556 TSDPI
DISK T1 TURBINE	3840019-1		X	005000	08029 CSDPI
01014 001	UA00315688		A	006000	07556 TSDPI
NOZZLE SET PRIM	331NOZPRI1		B	003000	07556 TSDPI
01015 001	UA00315689		A	006000	07556 TSDPI
NOZZLE SET SECD	331NOZSEC1		B	003000	07556 TSDPI

UNITED

PSEN443A
03/17/04

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
DISC SHEET AND HARD LIMIT REPORT

REASON: AT REMOVAL
SERIAL NUMBER 62697
ORDER NUMBER V528

ENGINE TYPE V
MODULE TYPE

REQUESTOR: REMOVAL
ENGINE NAME APU331
MODULE NAME

PHONE:

ORG:

CUST CODE UA
WORK CENTER 551

WORK CENTER: 551 TSN: 07556 CSN: 08029 TSLM: 07556 CSLM: 08029 TSLV: 07556 CSLV: 08029

SERIAL NBR	ET	MT	NAME	POWER	CUST	LIMIT VALUE	HARD LIMIT UNIT ACCUMULATION	REMAINING VALUE	NLA LOWEST REMAINING VALUE
62697		V	APU331	200E	UA				C 11971

ORDER NUMBER	REASON REMOVED OR MAINTENANCED	DATE MAINT
V528	LOW PNEUMATIC PRESS	03/17/04

MODULE HARD LIMIT SUMMARY

NAME	MT	SERIAL NBR	COMMENTS	LIMIT VALUE	HARD LIMIT MODULE ACCUMULATION	REMAINING VALUE	NLA LOWEST REMAINING VALUE
POWER SECTION	N	P-2155					C 11971

UNITED

PSEN443A
03/17/04

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
ENGINE BUILD GOAL REPORT

REASON: AT REMOVAL
SERIAL NUMBER 62697
ORDER NUMBER V528
EFFECTIVE MODEL: V-UA-ESV

ENGINE TYPE V
MODULE TYPE

REQUESTOR: REMOVAL
ENGINE NAME APU331
MODULE NAME

PHONE:

ORG:
CUST CODE UA
WORK CENTER 551

ALL LIFE LIMITED PARTS MEET BUILD LIMITS

ALL LIFE LIMITED PARTS MEET TEARDOWN GOALS

*** END OF REPORT FOR ENG - V MT - SN - 62697

*** END OF REPORT ***

UNITED

PSEN441A-1
03/17/04

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
COMPOSITION LIST FOR UNIT

REASON: REMOVAL
SERIAL NUMBER 62697
ORDER NUMBER V528

ENGINE TYPE V
MODULE TYPE

REQUESTOR: PSEN440A
ENGINE NAME APU331
MODULE NAME

PHONE:
CUST CODE UA
WORK CENTER 551

ORG:

WORK CENTER: 551

TSLV: 07556 CSLV: 08029 TSLM: 07556 CSLM: 08029

SERIAL NBR	ET MT	NAME	POWER	CUST	
62697	V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V528	N674UA	APU	LAX	LOW PNEUMATIC PRESS	03/17/04

UNIT ACCUMULATIONS

	LIMITS THIS EMO	WTY
07556 TSN 08029 CSN		

UNIT'S COMPOSITION

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	WTY
DRIVEN COMP SE	F	P-2167	07556 TSN 07556 TSMDPI	08029 CSN 08029 CSMDPI	07556 TSMI	08029 CSMI	X	
POWER SECTION	N	P-2155	07556 TSN 07556 TSMDPI	08029 CSN 08029 CSMDPI	07556 TSMI	08029 CSMI	X	
GEARBOX ASSMBLY	A	P-1615	07556 TSN 07556 TSMDPI	08029 CSN 08029 CSMDPI	07556 TSMI	08029 CSMI		

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	WTY	UNATH PRT
05650 001 FAN -SHROUDED R	P-846 3516959-6	07556 TSN 08029 CSDPI	08029 CSN	07556 TSDPI			

REASON: REMOVAL
SERIAL NUMBER 62697
ORDER NUMBER V528

ENGINE TYPE V
MODULE TYPE

REQUESTOR: PSEN440A
ENGINE NAME APU331
MODULE NAME

PHONE:

CUST CODE UA
WORK CENTER 551

ORG:

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V528	N674UA	APU	LAX	LOW PNEUMATIC PRESS	03/17/04

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMD	WTY
DRIVEN COMP SE	P	P-2167	07556 TSN 07556 TSMDPI	08029 CSN 08029 CSMDPI	07556 TSMI	08029 CSMI	X	

FUNC POS NAME	SERIAL NBR PART NUMBER	*FUNCTION ACCUMULATIONS*			LIMITS THIS EMD	WTY	UNATH PRT
00988 001 IGV ASSY VARIBL	UA00315683 3810231-21	07556 TSN 08029 CSDPI	08029 CSN 07556 TSS-9089	07556 TSDPI			
00389 001 IMPELLER-DRCOMP	99-10-4566 3822080-3	07556 TSN 08029 CSDPI	08029 CSN	07556 TSDPI		YES	
05760 001 BRNG-D/C THRUST	99-10-9276 3813827-1	07556 TSN 08029 CSDPI	08029 CSN	07556 TSDPI			
05746 001 BRNG-D/C ROLLER	99-43-4672 3822039-1	07556 TSN 08029 CSDPI	08029 CSN	07556 TSDPI			

REASON: REMOVAL
SERIAL NUMBER 62697
ORDER NUMBER V528

ENGINE TYPE V
MODULE TYPE

REQUESTOR: PSEN440A
ENGINE NAME APU331
MODULE NAME

PHONE:

ORG:

CUST CODE UA
WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V528	N674UA	APU	LAX	LOW PNEUMATIC PRESS	03/17/04

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	WTY
POWER SECTION	N	P-2155	07556 TSN	08029 CSN	07556 TSMI	08029 CSMI	X	
			07556 TSMOPI	08029 CSMOPI				

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	WTY	UNATH PRT
05719 001	UA00315684	07556 TSN	08029 CSN	07556 TSOPI			
BRNG,P/S-THRUST	3613827-1	08029 CSOPI					
05720 001	UA00315685	07556 TSN	08029 CSN	07556 TSOPI			
BRNG,P/S-ROLLR	3822099-1	08029 CSOPI					
00993 001	99-10-3545	07556 TSN	08029 CSN	07556 TSOPI		YES	
C1 COMP IMPELLR	3822067-2	08029 CSOPI					
00995 001	99-90-2048	07556 TSN	08029 CSN	07556 TSOPI			
C2 COMP IMPELLR	3822068-1	08029 CSOPI					
01002 001	UA00315686	07556 TSN	08029 CSN	07556 TSOPI			
COMB CHMBANNULR	3830051-5	08029 CSOPI					
01005 001	UA00315687	07556 TSN	08029 CSN	07556 TSOPI			
T1 STATOR VANE	3614744-3	08029 CSOPI					
01009 001	99-50-5751	07556 TSN	08029 CSN	07556 TSOPI			
T3 WHEEL ASSY	3840022-3	08029 CSOPI					
01007 001	99-10-2569	07556 TSN	08029 CSN	07556 TSOPI	X	YES	
DISK T2 TURBINE	3840007-1	08029 CSOPI					
01004 001	99-70-0757	07556 TSN	08029 CSN	07556 TSOPI	X	YES	
DISK T1 TURBINE	3840019-1	08029 CSOPI					
01014 001	UA00315688	07556 TSN	08029 CSN	07556 TSOPI	A B		
NOZZLE SET PRIM	331NOZPRI1	08029 CSOPI					

REASON: REMOVAL
SERIAL NUMBER 62697
ORDER NUMBER V528

ENGINE TYPE V
MODULE TYPE

REQUESTOR: PSEN440A
ENGINE NAME APU331
MODULE NAME

PHONE:

ORG:
CUST CODE UA
WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V528	N674UA	APU	LAX	LOW PNEUMATIC PRESS	03/17/04

FUNC NAME	POS	SERIAL NBR / PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	WTY	UNATH PRT
01015 NOZZLE SET SECD	001	UA00315689 331N025EC1	07556 TSN 08029 CSOPI	08029 CSN	07556 TSOPI	A B		

UNITED

PSEN441A-1 UNITED AIRLINES ENGINE MAINTENANCE SYSTEM PAGE: 5
03/17/04 COMPOSITION LIST FOR LOWER ASSEMBLY TIME: 08:03

REASON: REMOVAL REQUESTOR: PSEN44OA PHONE: DRG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V528 MODULE TYPE MODULE NAME WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V528	N674UA	APU	LAX	LOW PNEUMATIC PRESS	03/17/04

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	WTY
GEARBOX ASSMBLY	A	P-1615	07556 TSN	08029 CSN	07556 TSMI	08029 CSMI		
			07556 TSMOPI	08029 CSMOPI				

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS FMO	WTY	UNATH PRT
00987 001	MS99P21842	07556 TSN	08029 CSN	07556 TSOPI		YES	
GEARBOX HOUSING	3862699-3	08029 CSOPI					

* * * END OF REPORT FOR ENG - V MT - SN - 62697 * * *

UNITED

FSEN442A-1
04/18/04

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
COMPOSITION LIST FOR UNIT

REASON: INSTALLATION
SERIAL NUMBER 62697
ORDER NUMBER V528

ENGINE TYPE V
MODULE TYPE

REQUESTOR: MOCOMP
ENGINE NAME APU331
MODULE NAME

PHONE:

ORG:

CUST CODE UA
WORK CENTER 551

WORK CENTER: 551

TSLV: 07556 CSLV: 08029 TSLM: 07556 CSLM: 08029

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V528	N674UA	APU	LAX	LOW PNEUMATIC PRESS	03/17/04

UNIT ACCUMULATIONS

LIMITS THIS EMO WTY

07556 TSN 08029 CSN

UNIT'S COMPOSITION

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	WTY
DRIVEN COMP SE	F	P1372	18368 TSN 00000 TSMOPI	18476 CSN 00000 CSMOPI	00000 TSMI	00000 CSMI		
POWER SECTION	N	P1375	18728 TSN 00000 TSMOPI	19832 CSN 00000 CSMOPI	00000 TSMI	00000 CSMI		
GEARBOX ASSMBLY	A	P898	17845 TSN 00000 TSMOPI	18833 CSN 00000 CSMOPI	00000 TSMI	00000 CSMI		

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS				LIMITS THIS EMO	WTY	UNATH PRT
05650 001 FAN -SHROUDED R	090396 3616050-6	UNK TSN 00000 OSOPI	UNK CSN	00000 TSOPI				

REASON: INSTALLATION
SERIAL NUMBER 62697
ORDER NUMBER V528

ENGINE TYPE V
MODULE TYPE

REQUESTOR: MOCOMP
ENGINE NAME APU331
MODULE NAME

PHONE:

ORG:
CUST CODE UA
WORK CENTER 551

SERIAL NBR	ET MT	NAME	POWER	CUST
62697	V	APU331	200E	UA UNITED AIRLINES

ORDER NUMBER	PLANE NBR	FOS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V528	N674UA	APU	LAX	LOW PNEUMATIC PRESS	03/17/04

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	WT%
DRIVEN COMP SE	F	P1372	18388 TSN 00000 TSMOPI	18476 CSN 00000 CSMOPI	00000 TSMI	00000 CSMI		

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS				LIMITS THIS EMO	WT%	UNATH FRI
00988 001 IGV ASSY VARIBL	UA00171830 3810231-21	UNK TSN 00000 CSOPI	UNK CSN 14741 TSS-9089	00000 TSOPI				
00989 001 IMPELLER-DRCOMP	1-501-1732 3822080-3	17892 TSN 00000 CSOPI	17949 CSN	00000 TSOPI				
05760 001 BRNG-D/C THRUST	UA1998-441 3613827-1	UNK TSN 00000 CSOPI	UNK CSN	00000 TSOPI				
05746 001 BRNG-D/C ROLLER	GR3100-677 3822099-1	UNK TSN 00000 CSOPI	UNK CSN	00000 TSOPI				

REASON: INSTALLATION
SERIAL NUMBER 62697
ORDER NUMBER V528

ENGINE TYPE V
MODULE TYPE

REQUESTOR: MOCOMP
ENGINE NAME APU331
MODULE NAME

PHONE:

ORG:
CUST CODE UA
WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V528	N674UA	APU	LAX	LOW PNEUMATIC PRESS	03/17/04

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	WTY
POWER SECTION	N	P1375	18728 TSN 00000 TSMDPI	19832 CSN 00000 CSMDPI	00000 TSMI	00000 CSMI		

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS					LIMITS THIS EMO	WTY	UNATH PRI
05719 001 BRNG,P/S-THRUST	S1998-184 3613827-1	UNK TSN 00000 CSDPI	UNK CSN	00000 TSDPI					
05720 001 BRNG,P/S-ROLLR	039100-530 3822099-1	UNK TSN 00000 CSDPI	UNK CSN	00000 TSDPI					
00993 001 C1 COMP IMPELLR	8-501-3345 3822067-2	19026 TSN 00000 CSDPI	25132 CSN	00000 TSDPI					
00995 001 C2 COMP IMPELLR	0-501-3267 3822068-1	UNK TSN 00000 CSDPI	UNK CSN	00000 TSDPI					
01002 001 COMB CHMBANNULR	101041 3830051-5	UNK TSN 00000 CSDPI	UNK CSN	00000 TSDPI					
01005 001 T1 STATOR VANE	MGT-50088 E3844038-4	00000 TSN 00000 CSDPI	00000 CSN	00000 TSDPI				YES	
01009 001 T3 WHEEL ASSY	1-345-7043 3840022-3	17483 TSN 00000 CSDPI	17342 CSN	00000 TSDPI					
01007 001 DISK T2 TURBINE	005D102416 3840007-1	04477 TSN 00000 CSDPI	05700 CSN	00000 TSDPI				YES	
01004 001 DISK T1 TURBINE	0235703173 3840019-1	00000 TSN 00000 CSDPI	00000 CSN	00000 TSDPI				YES	
01014 001 NOZZLE SET PRIM	UA00381053 331NOZPRI1	UNK TSN 00000 CSDPI	UNK CSN	00000 TSDPI					

UNITED

REASON: INSTALLATION REQUESTOR: MOCOMP PHONE: ORG:
SERIAL NUMBER 62897 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V528 MODULE TYPE MODULE NAME WORK CENTER 551

SERIAL NBR	ET MT	NAME	POWER	CUST	
62897	V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V528	N674UA	APU	LAX	LOW PNEUMATIC PRESS	03/17/04

FUNC NAME	POS	SERIAL NBR / PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMD	WTV	UNATH PRT
01015 001		UA00381056	00000 TSN	00000 CSN	00000 TSOPI		YES	
NOZZLE SET SECD		331N025EC1	00000 CSOPI					

UNITED

PSEN442A-1
04/18/04

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
COMPOSITION LIST FOR LOWER ASSEMBLY

REASON: INSTALLATION
SERIAL NUMBER 62697
ORDER NUMBER V528

ENGINE TYPE V
MODULE TYPE

REQUESTOR: MOCOMP
ENGINE NAME APU331
MODULE NAME

PHONE:
CUST CODE UA
WORK CENTER 551

ORG:

SERIAL NBR	ET MT	NAME	POWER	CUST	
62697	V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	PDS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V528	N674UA	APU	LAX	LOW PNEUMATIC PRESS	03/17/04

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS ENG	WTY
GEARBOX ASSMBLY	A	P698	17845 TSN 00000 TSMOPI	18633 CSN 00000 CSMOPI	00000 TSMI	00000 CSMI		

FUNC PDS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS ENG	WTY	UNATH PRT
00987 001 GEARBOX HOUSING	1L-2034 3862699-3	20210 TSN 00000 CSOPI	18143 CSN	00000 TSOPI			

* * * END OF REPORT FOR ENG - V MT - SN - 62697 * * *

SFOMR1 SFUSPM SFUPD6 SFULMEMC SFUSFT57 SFOSP
SFO1Q
.HDUCTION 131905/STE:

SPARE ENGINE CHECK ACCOMPLISHMENT RECORDED
****
ENG SN: 62607 331-200E ETT: 7556:42 ETC: 6063
A CK CHECK HAS BEEN ACCOMPLISHED AND SERVICEABLE TAG INSTALLED AT SFO ON
13APR2004 AT 1206 BY: 084444 STOKES JOHN
LOC ON FIELD:
REMARKS: ENG RECEIVED A SHOP VISIT C CHECK ACCOMPLISHED

.
;04131906 101809 0022

END OF PACKAGE CARD

UNITED AIRLINES
BACK TO BIRTH HISTORY

PART NAME: T3 WHEEL ASSY
PART NUMBER: 3840022-4
SERIAL NUMBER: 0734502190

CURRENT TIME REMAINING: N/A
CURRENT CYCLES REMAINING: 10818 FROM CSN
CURRENT DAYS REMAINING: N/A

	<-----INSTALL----->						<-----REMOVAL----->							
CUST ID	ENGINE SERIAL#	INSTALL DATE	EON	ENGINE TSN	ENGINE CSN	PART TSN	PART CSN	REMOVAL DATE	EON	ENGINE TSN	ENGINE CSN	PART TSN	PART CSN	USAGE HOURS	USAGE CYCLES
UA	62697	09/12/2013	V539	18025	23603	6780	11789	CURRENT		19723	25996	8478	14182	1698	2393
UA	61832	08/31/2009	V571	21727	23994	1961	3661	02/15/2013	V440	26546	32122	6780	11789	4819	8128
UA	61914	07/23/2007	V360	21198	24128	0	0	05/11/2009	V569	23159	27789	1961	3661	1961	3661

TO THE BEST OF MY KNOWLEDGE THE INFORMATION CONTAINED HEREIN WAS OBTAINED FROM DATA MAINTAINED IN ACCORDANCE WITH UAL FAA APPROVED OPERATIONS SPECIFICATIONS.

Linda Gross

Linda Gross - Analyst SFOMR - Maintenance Records 7/15/2015

UNITED AIRLINES
BACK TO BIRTH HISTORY – PRORATE ACCUMULATIONS

IIN:	0310
FUNCTION NUMBER:	01009
PART NAME:	T3 WHEEL ASSY
PART NUMBER:	3840022-4
SERIAL NUMBER:	0734502190
TOTAL HOURS:	8478
TOTAL CYCLES:	14182

POWER RATING	TOTAL HOURS AT POWER RATING	TOTAL CYCLES AT POWER RATING
200E	8478	14182

TO THE BEST OF MY KNOWLEDGE THE INFORMATION CONTAINED HEREIN WAS OBTAINED FROM DATA MAINTAINED IN ACCORDANCE WITH UAL FAA APPROVED OPERATIONS SPECIFICATIONS.

Linda Gross

Linda Gross Analyst SFOMR - Maintenance Records 7/15/2015

1 Pc# BW0114

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	07N4701500

4. Organization Name and Address:		5. Work Order/Contract/Invoice Number:
Honeywell International, Inc. 1944 E. Sky Harbor Circle Phoenix, AZ 85034	PRODUCTION APPROVAL PT1222NM	AL01498667 BW0114 PAGE 1/ 1

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial / Batch No:	12. Status / Work:
001	WHEEL	3840022-4	N/A	1	070134502190	NEW

13. Remarks:

THIS FORM IS ISSUED AT 1944 E. SKY HARBOR CIRCLE PHOENIX, AZ 85034 AS AUTHORIZED BY THE PRODUCTION APPROVAL HOLDER AIRWORTHINESS APPROVAL
THIS PART IS A SUBCOMPONENT OF A PMA/TSO AUTHORIZATION.

14. Certifies the items identified above were manufactured in conformity to:

- [X] Approved design data and are in a condition for safe operation.
- [ ] Non-approved design data specified in Block 13.

19. [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No:	20. Authorized Signature:	21. Approval/Certificate No:
	ODARF602216NM		
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
MARK FIELDS	APR/23/2007		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

*Installer must cross-check eligibility with applicable technical data.

NSN:0052-00-012-9005

LIFE LIMITED PART LOG

ASSEMBLY NAME | PART NUMBER

LIFE LIMITED PART NAME: *WHEEL ASSY TURB* | PART NUMBER: *3840022-4* | SERIAL NUMBER: *070134502190*

MANUFACTURED PER FAR PART 21 UNDER PRODUCTION CERTIFICATE PC413 | SIGNATURE OR ACCEPTANCE STAMP: ***INSP STAMP # A-166***

DATE INSTALLED	DATE REMOVED	ENGINE SERIAL NUMBER	TIME ON PART THIS INSTALLATION		TOTAL TIME ON PART		SIGNATURE, FAA NUMBER
			CYCLES*	HOURS	CYCLES*	HOURS	
			0:0	0:0	0:0	0.0	

* SEE SERVICE LIFE LIMITS OF CRITICAL LIFE LIMITED COMPONENTS. ENTRIES SHALL COMPY TO FAR 43.

PX-3107-760

LIFE LIMITED PART MAINTENANCE RECORD

DATE	MAINTENANCE PERFORMED	AUTHORIZED SIGNATURE

PX-3107-76 BACK

NEW TT=0 TC=0 I209A

UNITED I & R TAG

PCN	PART NO.	NAME	DASHED NO. OFF	SER. NO. IF NO DASH
265-0223	3840022-4	wheel T-3	DASH NO. ON 0734502190	MFG. SER. NO. / UTSO ø

MAINT. SHOPS	PS	E74	HOME SHOP	SHIP CONT.	BATCHABLE	R
I209A	X	I209A	DATE SERVICEABLE 05-22-07		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FAR'S. WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED. PERTINENT INFO. IS ON FILE AT UAL (AIR CARRIER UALA011A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO.	PLANE TSO	NHA PCN AND DASH NO.	NHA CODE*	POSITION	DATE	STA
		NV354 / 61758	P	APU	6 2 07	SFOPB

REMOVAL CODE - SEE BACK OF YELLOW STUB.

1 ☐ TIME
2 ☐ TROUBLE
3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE:

SIGNATURE (OR STAMP) & FILE NO.

78906

NON-REPORTABLE UNIT MRDATA TRANSACTION NOT REQUIRED

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY 1209A
ON NV354

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS: DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

SHOP FINDINGS:

WORK ACCOMPLISHED:

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO. _____

REASON: INSTALLATION REQUESTOR: MOCOMP PHONE: ORG:
SERIAL NUMBER 61914 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V360 MODULE TYPE MODULE NAME WORK CENTER 551

WORK CENTER: 551 TSLV: 01416 CSLV: 01301 TSLM: 01416 CSLM: 01301

SERIAL NBR	ET	MT	NAME	POWER	CUST	
61914		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V360	N573UA	APU	DEN	APU BLEED VALVE INOP	05/22/07

UNIT ACCUMULATIONS

	LIMITS THIS EMO	WTY
21198 TSN 24128 CSN		

UNIT'S COMPOSITION

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	WTY
DRIVEN COMP SE	F	P-1181	21714 TSN	29894 CSN	00000 TSMI	00000 CSMI		
			00000 TSMDPI	00000 CSMDPI				
POWER SECTION	N	P1083	22646 TSN	30056 CSN	00000 TSMI	00000 CSMI		
			00000 TSMDPI	00000 CSMDPI				
GEARBOX ASSMBLY	A	P225	28467 TSN	29264 CSN	01416 TSMI	01301 CSMI		
			01416 TSMDPI	01301 CSMDPI				

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	WTY	UNATH PRT
05650 001	P-1417	UNK TSN	UNK CSN	01416 TSDPI			
FAN -SHROUDED R	3616958-6	01301 CSDPI					

REASON: INSTALLATION REQUESTOR: MGCOMP PHONE: ORG:
SERIAL NUMBER 61914 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V360 MODULE TYPE MODULE NAME WORK CENTER 551

SERIAL NBR	FI	MT	NAME	POWER	CUST	
61914		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V360	N573UA	APU	DEN	APU BLEED VALVE INOP	05/22/07

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	LIMITS WTY
DRIVEN COMP SE	F	P-1181	21714 TSN	29894 CSN	00000 TSMI	00000 CSMI		
			00000 TSMDPI	00000 CSMDPI				

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	LIMITS WTY	UNATH PRT
00988 001	1909	UNK TSN	UNK CSN	00000 TSDPI			
IGV ASSY VARIBL	3810231-21	00000 CSDPI	10320 TSS-9089				
00989 001	0650105588	00000 TSN	00000 CSN	00000 TSDPI		YES	
IMPELLER-DRCOMP	3822080-3	00000 CSDPI					
05760 001	051998-128	UNK TSN	UNK CSN	00000 TSDPI			
BRNG-D/C THRUST	3613827-1	00000 CSDPI					
05746 001	10064	00000 TSN	00000 CSN	00000 TSDPI		YES	
BRNG-D/C ROLLER	3822099-1WD	00000 CSDPI					

REASON: INSTALLATION REQUESTOR: MOCOMP PHONE: ORG:
SERIAL NUMBER 61914 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V360 MODULE TYPE MODULE NAME WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
61914	V		APU331	206E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V360	N573UA	APU	DEN	APU BLEED VALVE INOP	05/22/07

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	LIMITS WTY
POWER SECTION	N	P1083	22646 TSN	30056 CSN	00000 TSMI	00000 CSMI		
			00000 TSMDPI	00000 CSMDPI				

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	LIMITS WTY	UNATH PRT
05719 001 BRNG,P/S-THRUST	0633003914 3613827-1	00000 TSN 00000 CSDPI	00000 CSN	00000 TSDPI		YES	
05720 001 BRNG,P/S-ROLLR	10099 3822099-1WD	00000 TSN 00000 CSDPI	00000 CSN	00000 TSDPI		YES	
00993 001 C1 COMP IMPELLR	99-10-1622 3822067-2	08030 TSN 00000 CSDPI	14028 CSN	00000 TSDPI		YES	
00995 001 C2 COMP IMPELLR	8-229-3074 3822068-1	UNK TSN 00000 CSDPI	UNK CSN	00000 TSDPI			
01002 001 COMB CHMBANNULR	113820 3830051-5	UNK TSN 00000 CSDPI	UNK CSN	00000 TSDPI			
01005 001 T1 STATOR VANE	TC14-215 E3844038-4	00000 TSN 00000 CSDPI	00000 CSN	00000 TSDPI		YES	
01009 001 T3 WHEEL ASSY	0734502190 3840022-4	00000 TSN 00000 CSDPI	00000 CSN	00000 TSDPI		YES	
01007 001 DISK T2 TURBINE	0650110389 3840007-1	00000 TSN 00000 CSDPI	00000 CSN	00000 TSDPI		YES	
01004 001 DISK T1 TURBINE	0235701713 3840019-1	03136 TSN 00000 CSDPI	07744 CSN	00000 TSDPI		YES	
01014 001 NOZZLE SET PRIM	UA00456112 331NOZPRI1	UNK TSN 00000 CSDPI	UNK CSN	00000 TSDPI			

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
COMPOSITION LIST FOR LOWER ASSEMBLY

REASON: INSTALLATION — REQUESTOR: MOCOMP — PHONE: — ORG:
SERIAL NUMBER 61914 — ENGINE TYPE V — ENGINE NAME APU331 — CUST CODE UA
ORDER NUMBER V360 — MODULE TYPE — MODULE NAME — WORK CENTER 551

SERIAL NBR	RT	MT	NAME	POWER	CUST	
61914		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V360	N573UA	APU	DEN	APU BLEED VALVE INOP	05/22/07

FUNC PDS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS	LIMITS THIS EMO	WTY	UNAUTH PRT
01015 001	UA00456113	UNK TSN UNK CSN 00000 TSDPI			
NOZZLE SET SECD	331NOZSEC1	00000 CSDPI			

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
COMPOSITION LIST FOR LOWER ASSEMBLY

REASON: INSTALLATION
SERIAL NUMBER 61914 ENGINE TYPE V REQUESTOR: MOCOMP PHONE: ORG:
ORDER NUMBER V360 MODULE TYPE ENGINE NAME APU331 CUST CODE UA
MODULE NAME WORK CENTER 551

SERIAL NBR	FT	MT	NAME	POWER	CUST	
61914		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V360	N573UA	APU	DEN	APU BLEED VALVE INOP	05/22/07

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	LIMITS WTY
GEARBOX ASSMBLY	A	P225	26467 TSN	29264 CSN	01416 TSMI	01301 CSMI		
			01416 TSMDPI	01301 CSMDPI				

FUNC NAME	POS	SERIAL NBR / PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	LIMITS WTY	UNATH PRT
00987 001		GL-6066	23476 TSN	27547 CSN	01416 TSDPI			
GEARBOX HOUSING		3862699-3	01301 CSDPI					

* * * END OF REPORT FOR ENG - V MT - SN - 61914 * * *

UNITED AIRLINES
BACK TO BIRTH HISTORY

PART NAME: DISK T2 TURBINE
PART NUMBER: 3840007-1
SERIAL NUMBER: 0350101589

CURRENT TIME REMAINING: N/A
CURRENT CYCLES REMAINING: 2271 FROM CSN
CURRENT DAYS REMAINING: N/A

	<-----INSTALL----->						<-----REMOVAL----->							
CUST ID	ENGINE SERIAL#	INSTALL DATE	EON	ENGINE TSN	ENGINE CSN	PART TSN	PART CSN	REMOVAL DATE	EON	ENGINE TSN	ENGINE CSN	PART TSN	PART CSN	USAGE HOURS	USAGE CYCLES
UA	62697	09/12/2013	V539	18025	23603	9152	15336	CURRENT		19723	25996	10850	17729	1698	2393
UA	61607	11/29/2010	V666	26100	35750	6469	11653	05/27/2013	V533	28783	39433	9152	15336	2683	3683
UA	60165	08/01/2007	V364	33935	44414	3674	6060	08/26/2010	V661	36730	50007	6469	11653	2795	5593
UA	61607	12/05/2003	V488	18305	22748	0	0	05/15/2007	V358	21979	28808	3674	6060	3674	6060

TO THE BEST OF MY KNOWLEDGE THE INFORMATION CONTAINED HEREIN WAS OBTAINED FROM DATA MAINTAINED IN ACCORDANCE WITH UAL FAA APPROVED OPERATIONS SPECIFICATIONS.

Linda Gross

Linda Gross - Analyst SFOMR - Maintenance Records 7/15/2015

UNITED AIRLINES
BACK TO BIRTH HISTORY – PRORATE ACCUMULATIONS

IIN:	0308
FUNCTION NUMBER:	01007
PART NAME:	DISK T2 TURBINE
PART NUMBER:	3840007-1
SERIAL NUMBER:	0350101589
TOTAL HOURS:	10850
TOTAL CYCLES:	17729

POWER RATING	TOTAL HOURS AT POWER RATING	TOTAL CYCLES AT POWER RATING
200E	10850	17729

TO THE BEST OF MY KNOWLEDGE THE INFORMATION CONTAINED HEREIN WAS OBTAINED FROM DATA MAINTAINED IN ACCORDANCE WITH UAL FAA APPROVED OPERATIONS SPECIFICATIONS.

Linda Gross

Linda Gross Analyst SFOMR - Maintenance Records 7/15/2015

AUTHORIZED RELEASE CERTIFICATE

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States		07N3277100

4. Organization Name and Address		5. Work Order/Contract/Invoice Number:
Honeywell International, Inc. 1944 E. Sky Harbor Circle Phoenix, AZ 85034	PRODUCTION APPROVAL TSOA	AL01048296 565440

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial / Batch No.	12. Status / Work:
001	DISK	3040007-1	N/A TSO	000005	030350101616 030350101623 030350101630 030350103080 030350101589	NEW

13. Remarks:

THIS FORM IS ISSUED AT 1944 E. SKY HARBOR CIRCLE PHOENIX, AZ 85034 AS AUTHORIZED BY THE PRODUCTION APPROVAL HOLDER AIRWORTHINESS APPROVAL - PARTS.

14. Certifies the items identified above were manufactured in conformity to:

- [X] Approved design data and are in a condition for safe operation
- [ ] Non-approved design data specified in Block 13

19. [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature	16. Approval/Authorization No:	20. Authorized Signature:	21. Approval/Certificate No:
Susan Blake	ODARF602216NM		
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
SUSAN BLAKE	09/26/03		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

*Installer must cross-check eligibility with applicable technical data.

NSN 0052-00-012-9005

PART OR MATERIAL CERTIFICATION FORM

1 Part or Material Certification Form — ATA Specification 106

2 **AAR AIRCRAFT & TURBINE CENTER**
DIVISION OF AAR PARTS TRADING, INC.

3 Reference #: 44750

4 Organization

Address

AAR AIRCRAFT & TURBINE CENTER
1100 North Wood Dale Road
Wood Dale, IL 60191.

Phone #: (630)227-2000
FAX #: (630)227-2520
SITA/Wire Code: CHIKKXD
Status: AS7104 ACCREDITED DISTRIBUTOR
CERTIFICATION #103278-E(AC 20-AIR-DU)

5A Seller's Contract #: 1286271

5B Buyer's Contract #: B41049
CHROMALLOY ARIZONA

6 Item	7. Description	8 Manufacturer & Part No	9 Eligibility	10 Qty	11. Serial/Batch #	12 Status
1	DISK	3840007-1 HONEYWELL AEROSPACE SERVICES	TBV/INSTLR	1	030350101589	New

13A Remarks
REF AAR PO# 565440

TAG NUMBER: K21802
NOTE: THESE PARTS WERE NOT OBTAINED FROM ANY U.S. GOVERMENT OR MILITARY SOURCE AND HAVE NOT BEEN SUBJECTED TO SEVERE STRESS OR HEAT [AS IN A MAJOR ENGINE FAILURE,ACCIDENT, OR FIRE].

13B Obtained From: HONEYWELL, AAS

13C Last Certified Agency: N/A

14 *New Parts Material Verification:*
The following signature attests that the part(s) or Material(s) identified above was (were) manufactured by a FAA Production Approval Holder (PAH), or to an industry or commercial standard.

15 SIGNATURE
A&P #

16 NAME (Type or Printed)

17 DATE

18 *Used, Repaired, Overhauled or Surplus Verification:*
The following signature attests that the documentation specified above or attached is accurate with regard to the item(s) described.

19 SIGNATURE
A&P # 356883239

20. NAME (Type or Printed): DAVID MALETZ

21. DATE: 16-OCT-2003

NADCAP
PERFORMANCE REVIEW INSTITUTE®
- Accredited -

FOR RETURN MATERIAL AUTHORIZATION, CONTACT AAR'S CUSTOMER SERVICE (800) 422-2213

LIFE LIMITED PART LOG

ASSEMBLY NAME | PART NUMBER

LIFE LIMITED PART NAME *DISK TURB* | PART NUMBER *3840007-1* | SERIAL NUMBER *030350101589*

MANUFACTURED PER FAR PART 21 UNDER PRODUCTION CERTIFICATE PC413 | SIGNATURE OR ACCEPTANCE STAMP: *INSP STAMP # A-408*

DATE INSTALLED	DATE REMOVED	ENGINE SERIAL NUMBER	TIME ON PART THIS INSTALLATION		TOTAL TIME ON PART		SIGNATURE/FAA NUMBER
			CYCLES*	HOURS	CYCLES*	HOURS	
			0.0	0.0	0.0	0.0	

* SEE SERVICE LIFE LIMITS OF CRITICAL LIFE LIMITED COMPONENTS. ENTRIES SHALL COMPLY TO FAR 43.

PX-3107-76C

LIFE LIMITED PART MAINTENANCE RECORD

DATE	MAINTENANCE PERFORMED	AUTHORIZED SIGNATURE

PX-3107-76 BACK

UNITED
I & R TAG

PCN	PART NO	NAME	DASH NO OR	DASH NO ON	SER NO IF NOT	
265-0222	3840007-1	DISK-T2		—		

MAINT STATION	PS											MFG SER NO		GRND NEW	
	X	E74	RAL 542									0350101589		NEW	
			7247									551 HOURS/CYCLES	CHRONO CONT	RATCHABLE	R
												DATE SCRAPPABLE 11-3-03		QUANTITY 1	

THE REPAIRS SPECIFIED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC 3 & CONFORM TO CURRENT PARTS WHEN SHOWN IN THE SERVICEABLE BLOCK. THIS UNIT IS CERTIFIED AUTHORITY WITH RESPECT TO THE WORK PERFORMED. PERTINENT REC IS ON FILE AT UAL AIRCARE FUJAIRAH & REPAIR STATION UAL FUJ, UAL FURNISHED COMPONENT UNAUTHORIZED DEVIATIONS

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETION ON ALL TAGS	
FLIGHT NO	PLANE NO	WORK ORDER NO (OPTIONAL)	INSPECTOR	POSITION	DATE	STA
		NV473/P146	P	APU	01.04.03	SFOLD

NEW UNIT CODE - SEE BACK OF YELLOW STUB

1 ☐ NEW

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR DISPOSITION OF REMOVED UNIT

Installed 40ct T² Blades & Balance f/w E3840006-2

SIGNATURE (OR STAMP) & FILE NO.

7247 99251

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

ON LOGGED BY

ON NV473

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS: DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO.

UNITED

PSEN442A-1
12/05/03

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
COMPOSITION LIST FOR UNIT

REASON: INSTALLATION
SERIAL NUMBER 61607
ORDER NUMBER V488

ENGINE TYPE V
MODULE TYPE

REQUESTOR: MOCOMP
ENGINE NAME APU331
MODULE NAME

PHONE:
CUST CODE UA
WORK CENTER 551

ORG:

WORK CENTER: 551

TSLV: 01958 CSLV: 03048 TSLM: 01958 CSLM: 03048

SERIAL NBR	ET	MT	NAME	POWER	CUST	
61607		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V488	N577UA	APU	SFO	HIGH OIL CONSUMPTION	10/30/03

UNIT ACCUMULATIONS

LIMITS THIS EMO | WTY

18305 TSN 22748 CSN

UNIT'S COMPOSITION

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	WTY
DRIVEN COMP SE	F	P1360	16602 TSN 00000 TSMOPI	18704 CSN 00000 CSMOPI	00000 TSMI	00000 CSMI		
POWER SECTION	N	P146	32724 TSN 00000 TSMOPI	41812 CSN 00000 CSMOPI	00000 TSMI	00000 CSMI		
GEARBOX ASSMBLY	A	P-254	16963 TSN 02422 TSMOPI	19013 CSN 03266 CSMOPI	00000 TSMI	00000 CSMI		

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS				LIMITS THIS EMO	WTY	UNATH PRT
05650 001 FAN -SHROUDED R	P-1368 3616959-6-6000	14760 TSN 03266 CSOPI	UNK	CSN	02422 TSOPI			

REASON: INSTALLATION REQUESTOR: MOCOMP PHONE: ORG:
SERIAL NUMBER 61607 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V488 MODULE TYPE MODULE NAME WORK CENTER 551

SERIAL NBR	ET MT	NAME	POWER	CUST	
61607	V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	PDS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V488	N577UA	APU	SFO	HIGH OIL CONSUMPTION	10/30/03

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	LIMITS WTY
DRIVEN COMP SE	F	P1360	16602 TSN	18704 CSN	00000 TSMI	00000 CSMI		
			00000 TSMDPI	00000 CSMDPI				

FUNC PDS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	LIMITS WTY	UNATH PRT
00988 001	UA00203991	15809 TSN	17639 CSN	00000 TSDPI			
IGV ASSY VARIBL	3810231-21	00000 CSDPI	08515 TSS-9089				
00989 001	0065104892	04752 TSN	05834 CSN	00000 TSDPI		YES	
IMPELLER-DRCOMP	3822080-3	00000 CSDPI					
05760 001	031998-378	UNK TSN	UNK CSN	00000 TSDPI			
BRNG-D/C THRUST	3613827-1	00000 CSDPI					
05746 001	031998-362	UNK TSN	UNK CSN	00000 TSDPI			
BRNG-D/C ROLLER	3822099-1	00000 CSDPI					

REASON: INSTALLATION
SERIAL NUMBER 61607
ORDER NUMBER V488

ENGINE TYPE V
MODULE TYPE

REQUESTOR: MOCOMP
ENGINE NAME APU331
MODULE NAME

PHONE:

ORG:
CUST CODE UA
WORK CENTER 551

SERIAL NBR	ET MT	NAME	POWER	CUST
61607	V	APU331	200E	UA UNITED AIRLINES

ORDER NUMBER	PLANE NBR	PDS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V488	N577UA	APU	SFO	HIGH OIL CONSUMPTION	10/30/03

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS			LIMITS THIS EMD	WTY
POWER SECTION	N	P146	32724 TSN 00000 TSMDPI	41812 CSN 00000 CSMDPI	00000 TSMI	00000 CSMI	

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMD	WTY	UNATH PRT
05719 001 BRNG,P/S-THRUST	S1998-272 3613827-1	UNK TSN 00000 CSDPI	UNK CSN	00000 TSDPI			
05720 001 BRNG,P/S-ROLLR	031998-361 3822099-1	UNK TSN 00000 CSDPI	UNK CSN	00000 TSDPI			
00993 001 C1 COMP IMPELLR	9-160-1901 3822067-2	17292 TSN 00000 CSDPI	19953 CSN	00000 TSDPI			
00995 001 C2 COMP IMPELLR	0-501-7349 3822068-1	UNK TSN 00000 CSDPI	UNK CSN	00000 TSDPI			
01002 001 COMB CHMBANNULR	96376 3830051-5	UNK TSN 00000 CSDPI	UNK CSN	00000 TSDPI			
01005 001 T1 STATOR VANE	MG9-S055 E3844038-4	00000 TSN 00000 CSDPI	00000 CSN	00000 TSDPI		YES	
01009 001 T3 WHEEL ASSY	0-345-6010 3840022-3	16109 TSN 00000 CSDPI	18897 CSN	00000 TSDPI			
01007 001 DISK T2 TURBINE	0350101589 3840007-1	00000 TSN 00000 CSDPI	00000 CSN	00000 TSDPI		YES	
01004 001 DISK T1 TURBINE	0235702427 3840019-1	00000 TSN 00000 CSDPI	00000 CSN	00000 TSDPI		YES	
01014 001 NOZZLE SET PRIM	UA00377431 331NOZPRI1	00000 TSN 00000 CSDPI	00000 CSN	00000 TSDPI		YES	

REASON: INSTALLATION
SERIAL NUMBER 61607
ORDER NUMBER V488

ENGINE TYPE V
MODULE TYPE

REQUESTOR: MOCOMP
ENGINE NAME APU331
MODULE NAME

PHONE:

ORG:

CUST CODE UA
WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
61607	V		APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V488	N577UA	APU	SFO	HIGH OIL CONSUMPTION	10/30/03

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMD	WTY	UNATH PRT
01015 001	UA00377430	00000 TSN	00000 CSN	00000 TSOPI		YES	
NOZZLE SET SECD	331NOZSEC1	00000 CSOPI					

UNITED

PSEN442A-1
12/05/03

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
COMPOSITION LIST FOR LOWER ASSEMBLY

REASON: INSTALLATION
SERIAL NUMBER 61607
ORDER NUMBER V488

ENGINE TYPE V
MODULE TYPE

REQUESTOR: MOCOMP
ENGINE NAME APU331
MODULE NAME

PHONE:
ORG:
CUST CODE UA
WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
61607	V		APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V488	N577UA	APU	SFD	HIGH OIL CONSUMPTION	10/30/03

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS			LIMITS THIS EMO	WTY
GEARBOX ASSMBLY	A	P-254	16963 TSN 02422 TSNOPI	19013 CSN 03266 CSNOPI	00000 TSMI	00000 CSMI	

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	WTY	UNATH PRT
00987 001 GEARBOX HOUSING	2L-2404 3862699-1	16026 TSN 03266 CSOPI	16164 CSN	02422 TSOPI			

* * * END OF REPORT FOR ENG - V MT - SN - 61607 * * *

UNITED AIRLINES
BACK TO BIRTH HISTORY

PART NAME: DISK T1 TURBINE
PART NUMBER: 3840019-1
SERIAL NUMBER: 0135703907

CURRENT TIME REMAINING: N/A
CURRENT CYCLES REMAINING: 4784 FROM CSN
CURRENT DAYS REMAINING: N/A

	<-----INSTALL----->						<-----REMOVAL----->							
CUST ID	ENGINE SERIAL#	INSTALL DATE	EON	ENGINE TSN	ENGINE CSN	PART TSN	PART CSN	REMOVAL DATE	EON	ENGINE TSN	ENGINE CSN	PART TSN	PART CSN	USAGE HOURS	USAGE CYCLES
UA	62697	09/12/2013	V539	18025	23603	12035	12823	CURRENT		19723	25996	13733	15216	1698	2393
UA	61646	01/30/2006	V671	21316	26271	4050	4288	05/27/2013	V532	29301	34806	12035	12823	7985	8535
UA	61929	05/20/2002	V691	13734	16448	0	0	12/07/2005	V670	17784	20736	4050	4288	4050	4288

TO THE BEST OF MY KNOWLEDGE THE INFORMATION CONTAINED HEREIN WAS OBTAINED FROM DATA MAINTAINED IN ACCORDANCE WITH UAL FAA APPROVED OPERATIONS SPECIFICATIONS.

Linda Gross

Linda Gross - Analyst SFOMR - Maintenance Records 7/15/2015

UNITED AIRLINES
BACK TO BIRTH HISTORY – PRORATE ACCUMULATIONS

IIN:	0305
FUNCTION NUMBER:	01004
PART NAME:	DISK T1 TURBINE
PART NUMBER:	3840019-1
SERIAL NUMBER:	0135703907
TOTAL HOURS:	13733
TOTAL CYCLES:	15216

POWER RATING	TOTAL HOURS AT POWER RATING	TOTAL CYCLES AT POWER RATING
200E	13733	15216

TO THE BEST OF MY KNOWLEDGE THE INFORMATION CONTAINED HEREIN WAS OBTAINED FROM DATA MAINTAINED IN ACCORDANCE WITH UAL FAA APPROVED OPERATIONS SPECIFICATIONS.

Linda Gross

Linda Gross Analyst SFOMR - Maintenance Records 7/15/2015

UNITED
I & R TAG

PCN	PART NO	NAME	CASHED NO OFF	SER NO IF NO DASH
265-0224	3840019-1	Disc-TI	—	0-357-3907

DASH NO ON	MFG SER NO	
	0-357-3907	0

MAINT SHOPS	PS		SHOP	SHOP CONT	BATCHABLE	R
135A	X	135				

DATE SERVICEABLE	QUANTITY
4-13-02	164

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH THE CURRENT FAA APPROVED [illegible] AND ARE RETURNED SERVICEABLE. THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED HEREIN. SIGNED IN THE SERVICEABLE BLOCK. THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED HEREIN. SIGNED IN THE SERVICEABLE BLOCK. UAL/AIR CARRIER (ALAMEDA) REPAIR STATION (ALBUQUERQUE, SAN FRANCISCO, INTERNATIONAL AIRPORT)

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AC REQ'D	COMPLETION ALL TAGS
PLANE NO	STA	SHOP ORDER NO		
		NV683/P035	P	4116/02 SFOPB

REMOVAL CODE (SEE BACK OF YELLOW STUB)

REASON FOR REMOVAL OR REMARKS (READ)

Installed Only with 36 ea TI Blades 3840004-53

SIGNATURE (OR STAMP) & FILE NO

MC Mears 58607

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

w/o # AL00586763 135#

ON LOCAL I 366

NV683

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 5 YES 6 NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP ORIGINATED ON (OTHER SIDE OF TAG)

DISPOSITION: 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAPPED

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

UNITED

PSEN441A-1
05/20/02

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
COMPOSITION LIST FOR UNIT

REASON: INSTALLATION
SERIAL NUMBER 61929
ORDER NUMBER V691

ENGINE TYPE V
MODULE TYPE

REQUESTOR: MOCOMP
ENGINE NAME APU331
MOOULE NAME

PHONE:
CUST CODE UA
WORK CENTER 551

ORG:

WORK CENTER: 551

TSLV: 01828 CSLV: 02084 TSLM: 01828 CSLM: 02084

SERIAL NBR	ET	MT	NAME	POWER	CUST	
61929		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V691	N598UA	APU	SFO	APU SCAVENGE PUMP OUT LINE SUPP CRACKED	04/28/02

UNIT ACCUMULATIONS

	LIMITS THIS EMO	WTY
13734 TSN 16448 CSN		

UNIT'S COMPOSITION

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	WTY
DRIVEN COMP SE	F	P887	18266 TSN 00000 TSMDPI	20801 CSN 00000 CSMDPI	00000 TSMI	00000 CSMI		
POWER SECTION	N	P1035	17839 TSN 00000 TSMDPI	18978 CSN 00000 CSMDPI	00000 TSMI	00000 CSMI		
GEARBOX ASSMBLY	A	P865	14067 TSN 00000 TSMDPI	14732 CSN 00000 CSMDPI	00000 TSMI	00000 CSMI		

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS				LIMITS THIS EMO	WTY	UNATH PRT
05650 001 FAN -SHROUDED R	P-429 3616959-6-600U	UNK TSN 00000 CSDPI	UNK CSN	00000 TSDPI				

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
COMPOSITION LIST FOR LOWER ASSEMBLY

REASON: INSTALLATION
SERIAL NUMBER 61929
ORDER NUMBER V691

ENGINE TYPE V
MODULE TYPE

REQUESTOR: MOCOMP
ENGINE NAME APU331
MODULE NAME

PHONE:

ORG:

CUST CODE UA
WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
61929		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V691	N598UA	APU	SFO	APU SCAVENGE PUMP OUT LINE SUPP CRACKED	04/28/02

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS			LIMITS THIS EMO	LIMITS WTY
POWER SECTION	N	P1035	17839 TSN 00000 TSMDPI	18978 CSN 00000 CSMDPI	00000 TSMI	00000 CSMI	

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	LIMITS WTY	UNATH PRT
05719 001 BRNG,P/S-THRUST	805 3613827-1	UNK TSN 00000 CSDPI	UNK CSN	00000 TSDPI			
05720 001 BRNG,P/S-ROLLR	1998-253 3822099-1	UNK TSN 00000 CSDPI	UNK CSN	00000 TSDPI			
00993 001 C1 COMP IMPELLR	8-520 3822067-2	20203 TSN 00000 CSDPI	23617 CSN	00000 TSDPI			
00995 001 C2 COMP IMPELLR	0-501-3160 3822068-1	16553 TSN 00000 CSDPI	16749 CSN	00000 TSDPI			
01002 001 COMB CHMBANNULR	OL-6949 3830051-5	19831 TSN 00000 CSDPI	15151 CSN	00000 TSDPI			
01005 001 T1 STATOR VANE	02004035 3844038-4	UNK TSN 00000 CSDPI	UNK CSN	00000 TSDPI			
01009 001 T3 WHEEL ASSY	9-345-5993 3840022-3	16548 TSN 00000 CSDPI	18595 CSN	00000 TSDPI			
01007 001 DISK T2 TURBINE	3-501-2508 3840007-1	10854 TSN 03804 CSDPI	12641 CSN	03615 TSDPI			
01004 001 DISK T1 TURBINE	0-357-3907 3840019-1	00000 TSN 00000 CSDPI	00000 CSN	00000 TSDPI		YES	
01014 001	UA00232047	UNK TSN	UNK CSN	00000 TSDPI			

SHOP VISIT
United
Airlines
2013

9100 S. Dadeland Blvd., Suite 1500, Miami, FL 33156 +1-305-271-6650
info@longreach.com www.longreach.com

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	016-A00529721

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
UNITED United Air Lines, Inc San Francisco International Airport, San Francisco, CA 94128 (UALR011A)	V539

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Qty	11 Serial/Batch #	12. Status/Work
(1)	APU-GTCP331-200ER CO A-6-9	MFG P/N 3800298-1	N/A	1	MFG S/N 62697	REPAIRED

13 Remarks

APU WAS MADE SERVICEABLE PER SFOPB SHOP VISIT MAINTENANCE PROGRAM 49-00-00 ETT 18025 ETC 23603 APU TEST RUN REQUIREMENTS ARE RECORDED IN AMIS ENGWRK DISPLAY
END

SPEC 2000 ID SPL 81979- UCN 331-200ER-62697

[redacted]

19 ☑ 14 CFR 43 9 Return to Service ☑ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13 the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14 Code of Federal Regulations part 43 and in respect to that work the items are approved for return to service

20 Authorized Signature	21 Approval/Certificate No
[signature]	UALR011A
22. Name (Typed or Printed)	**23 Date (m/d/y)**
JACK HUNTINGTON U018617	AUG/22/2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulation of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross-check eligibility with applicable technical data

[FAA form 8130-3 (6-01)-NSN 0052-00-012-9005]

HAZMAT HAZMAT HAZMAT HAZMAT

24 Stock Control Information		
	RCS CONTROLLED ? YES	PCN 265-9101
	HOME SHOP WRONG - 551	FINAL ROUTING 265
	SHELF LIFE(IN MONTHS) 99	BATCHABLE? NO
	SHIP & STORE IN CONTAINER EW*	

25 **UNITED**

26 **Part Removed Tag**	27 ROUTED BY (PRINT LAST NAME & P/N)	28. STATION	29. DATE:

	30 ON UNIT	31 OFF UNIT
PCN	265-9101	
PART NUMBER	3800298-1	
DESCRIPTION	APU-GTCP331-200ER COA-6-9	
DASH NO ON	1	
DASH NO OFF		
MFG S/N	62697	
UTSO		

32 **REMOVAL & INSTALLATION DATA**

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED		COMPLETE AS REQUIRED	
PLANE NO	PLANE TT	NHA PCN	NHA DASH #	NHA** CODE	POSITION

REASON FOR REMOVAL OR REPORTED TROUBLE(INCLUDE LINE CENTERWIU):

☐ TIME (SCHEDULED MAINT.) ☐ TROUBLE (SUSPECTED FAILURE OR TROUBLE SHOOTING) ☐ OTHER (COA, DAMAGE, WEAR OR CONVENIENCE)

[redacted]

** NHA (NEXT HIGHER ASSEMBLY) CODES A OR BLANK = AIRPLANE, G = LANDING GEAR, P = APU, 1, 2, 3 OR 4 = ENGINE

GMM 07-65-40

HAZMAT HAZMAT HAZMAT HAZMAT

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	016-A00525975

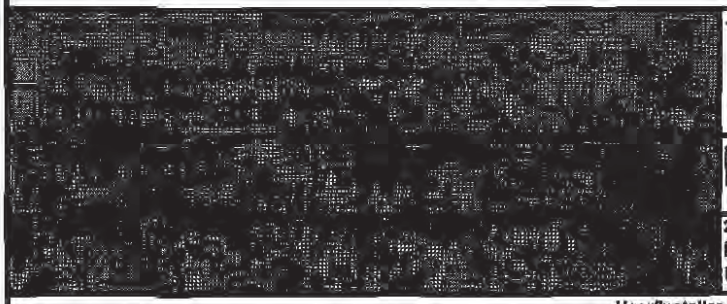
4. Organization Name and Address	5 Work Order/Contract/Invoice Number
UNITED United Air Lines, Inc 233 South Wacker Drive, Chicago IL 60606 (CALA014A)	WC153

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Qty	11 Serial/Batch #	12 Status/Work
(1)	SWITCH-GEN OIL FLTR DELTA P	UA P/N MR49902	N/A	1	UA MR DASH 465	REPAIRED

13 Remarks

ITEM 1 REPAIRED I A W UAL SPECIFICATION-RC-60-49-90-09-JD REVISION DATE 03/28/2000
END

SPEC 2000 ID SPL 81979- UCN L1X6156



19 ☑ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13 the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

20 Authorized Signature	21 Approval/Certificate No
	CALA014A
22 Name (Typed or Printed)	**23 Date (m/d/y)**
BENNY GUZMAN U059383	JUL/26/2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulation of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross-check eligibility with applicable technical data

[FAA form 8130-3 (6-01)-NSN 0052-00-012-9005]

24. Stock Control Information		
	RCS CONTROLLED ? YES	PCN 481-1503
	HOME SHOP SFOEC - 153	FINAL ROUTING 481
	SHELF LIFE(IN MONTHS) 99	BATCHABLE? NO
	SHIP & STORE IN CONTAINER A	

25 UNITED RUC

26 Part Removed Tag

27. ROUTED BY (PRINT LAST NAME & F/N):	28. STATION:	29. DATE:

30	PCN	PART NUMBER	DESCRIPTION	DASH NO ON	MFG S/N	UTSO
ON UNIT	481-1503	MR49902	SWITCH-GEN OIL FLTR DEL TA P	465	40687U	

31	PCN	PART NUMBER	DESCRIPTION	DASH NO OFF	MFG. S/N
OFF UNIT					

32 REMOVAL & INSTALLATION DATA	COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED		COMPLETE AS REQUIRED	
	PLANE NO.	PLANE TT	NHA PCN	NHA DASH #	NHA** CODE	POSITION

REASON FOR REMOVAL OR REPORTED TROUBLE(INCLUDE LINE CENTER/WU).

☐ TIME (SCHEDULED MAINT.) ☐ TROUBLE (SUSPECTED FAILURE OR TROUBLE SHOOTING) ☐ OTHER (COA, DAMAGE, WEAR OR CONVENIENCE)

NO FURTHER MAINTENANCE REQUIRED

** NHA (NEXT HIGHER ASSEMBLY) CODES A OR BLANK = AIRPLANE, G = LANDING GEAR, P = APU, 1, 2, 3 OR 4 = ENGINE

GMM 07-65-40

1 Approving National Aviation Authority/Country	2	3. Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	016-A00528435

4. Organization Name and Address*	5.Work Order/Contract/Invoice Number*
UNITED United Air Lines, Inc 233 South Wacker Drive, Chicago IL 60606 (CALA014A)	WC124

6 Item	7 Description	8. Part Number	9. Eligibility *	10 Qty	11 Serial/Batch #*	12. Status/Work:
(1)	STARTER-APU	UA P/N MR49408	N/A	1	UA MR DASH 93	OVERHAULED

13 Remarks

ITEM 1 OVERHAULED I A W UAL SPECIFICATION AC-60-49-40-01-JD REVISION DATE MAY/17/2012
END

SPEC 2000 ID SPL 81979- UCN L1X79767

19. ☑ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

20 Authorized Signature	21 Approval/Certificate No
	CALA014A
22. Name (Typed or Printed) FERNANDO GONZALEZ U104750	**23. Date (m/d/y)** AUG/13/2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulation of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross-check eligibility with applicable technical data.

[FAA form 8130-3 (6-01)-NSN 0052-00-012-9005]

24 Stock Control Information		
	RCS CONTROLLED ? YES	PCN 651-1150
	HOME SHOP* SFOEC - 124	FINAL ROUTING 651
	SHELF LIFE(IN MONTHS) 99	BATCHABLE? NO
	SHIP & STORE IN CONTAINER 06*	

25 **UNITED** D03

26 **Part Removed Tag**	27. ROUTED BY (PRINT LAST NAME & F/N).	28. STATION:	29. DATE.

	PCN	PART NUMBER	DESCRIPTION	DASH NO ON	MFG. S/N.	UTSO
30. ON UNIT	651-1150	MR49408	STARTER-APU	93	11-2379	
31 OFF UNIT	PCN	PART NUMBER	DESCRIPTION	DASH NO. OFF	MFG. S/N.	

32. REMOVAL & INSTALLATION DATA	COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED		COMPLETE AS REQUIRED	
	PLANE NO.	PLANE TT	NHA PCN	NHA DASH #	NHA** CODE	POSITION

REASON FOR REMOVAL OR REPORTED TROUBLE(INCLUDE LINE CENTER/WU):

☐ TIME (SCHEDULED MAINT.) ☐ TROUBLE (SUSPECTED FAILURE OR TROUBLE SHOOTING) ☐ OTHER (COA, DAMAGE, WEAR OR CONVENIENCE)

NO INSTALLABLE UNIT WITHIN THIS TRANSACTION REQUIRED

** NHA (NEXT HIGHER ASSEMBLY) CODES A OR BLANK = AIRPLANE, G = LANDING GEAR, P = APU, 1, 2, 3 OR 4 = ENGINE

GMM 07 65-40

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	016-A00526840

4. Organization Name and Address	5.Work Order/Contract/Invoice Number
UNITED United Air Lines, Inc 233 South Wacker Drive, Chicago, IL 60606 (CALA014A)	WC153

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Qty	11 Serial/Batch #	12. Status/Work
(1)	SWITCH-APU OIL LEVEL	UA P/N MR49937	N/A	1	UA MR DASH 242	INSPECTED/TESTED

13 Remarks

THE UNIT WAS INSPECTED ACCORDING TO SPECIFICATION RC-60-49-93-02-JD REV DATE MAY/13/1999
END

SPEC 2000 ID SPL 81979- UCN 128580

19 ☑ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13 the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

20 Authorized Signature	21 Approval/Certificate No
104442	CALA014A
22. Name (Typed or Printed) WILLIAM GREEN U104442	**23 Date (m/d/y)** AUG/01/2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulation of an airworthiness authority different than the airworthiness authority of the country specified in Block 1 it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross-check eligibility with applicable technical data

[FAA form 8130-3 (6-01)-NSN 0052-00-012-9005]

24 Stock Control Information		
	RCS CONTROLLED ? YES	PCN 481-0284
	HOME SHOP SFOEC - 153	FINAL ROUTING 481
	SHELF LIFE(IN MONTHS) 99	BATCHABLE? NO
	SHIP & STORE IN CONTAINER JW*	

25 UNITED

26 Part Removed Tag	27. ROUTED BY (PRINT LAST NAME & F/N)	28. STATION	29 DATE

	30 ON UNIT	31 OFF UNIT
PCN	481-0284	
PART NUMBER	MR49937	
DESCRIPTION	SWITCH-APU OIL LEVEL	
DASH NO ON	242	
MFG S/N	242	
UTSO		
DASH NO OFF		
MFG S/N		

32 REMOVAL & INSTALLATION DATA

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED		COMPLETE AS REQUIRED	
PLANE NO	PLANE TT	NHA PCN	NHA DASH #	NHA** CODE	POSITION

REASON FOR REMOVAL OR REPORTED TROUBLE(INCLUDE LINE CENTER/WU):

☐ TIME (SCHEDULED MAINT.) ☐ TROUBLE (SUSPECTED FAILURE OR TROUBLE SHOOTING) ☐ OTHER (CDA, DAMAGE, WEAR OR CONVENIENCE)

REPORTABLE UNSCHEDULED TROUBLE? YES/NO REQUIRED

** NHA (NEXT HIGHER ASSEMBLY) CODES A OR BLANK = AIRPLANE, G = LANDING GEAR, P = APU, 1, 2, 3 OR 4 = ENGINE

GMM 07-65-40

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	016-A00521582

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
UNITED United Air Lines, Inc 233 South Wacker Drive, Chicago, IL 60606 (CALA014A)	WC152

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Qty	11 Serial/Batch #	12 Status/Work
(1)	SWITCH-TEMPERATURE DE OIL ING C	MFG P/N 1173T0337-01	N/A	1	MFG S/N 080922707372	INSPECTED/TESTED

13 Remarks

ITEM 1 INSPECTED/TESTED I.A W UAL SPECIFICATION EL-60-49-26-01-JD REVISION DATE AUG/01/2003
END

SPEC 2000 ID SPL 81979- UCN 577674

[redacted]

19 ☑ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13 the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

20 Authorized Signature	21 Approval/Certificate No
	CALA014A
22 Name (Typed or Printed)	**23 Date (m/d/y)**
MICHAEL RIIS U039291	JUN/25/2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly
Where the user/installer performs work in accordance with the national regulation of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross-check eligibility with applicable technical data

[FAA form 8130-3 (6-01)-NSN 0052-00-012-9005]

24. Stock Control Information		
	RCS CONTROLLED ? YES	PCN 563-3130
	HOME SHOP SFOEC - 152	FINAL ROUTING 563
	SHELF LIFE(IN MONTHS) 99	BATCHABLE? NO
	SHIP & STORE IN CONTAINER JW	

25 **UNITED**

26 **Part Removed Tag**	27. ROUTED BY (PRINT LAST NAME & F/N)	28. STATION	29. DATE

	PCN	PART NUMBER	DESCRIPTION	DASH NO ON	MFG S/N	UTSO
30 ON UNIT	563-3130	1173T0337-01	SWITCH-TEMPERATURE DE O ILING C		080922707372	
31 OFF UNIT	PCN	PART NUMBER	DESCRIPTION	DASH NO OFF	MFG S/N	

32 REMOVAL & INSTALLATION DATA

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED		COMPLETE AS REQUIRED	
PLANE NO	PLANE TT	NHA PCN	NHA DASH #	NHA** CODE	POSITION

REASON FOR REMOVAL OR REPORTED TROUBLE(INCLUDE LINE CENTER/WU)

☐ TIME (SCHEDULED MAINT) ☐ TROUBLE (SUSPECTED FAILURE OR TROUBLE SHOOTING) ☐ OTHER (COA, DAMAGE, WEAR OR CONVENIENCE)

** NHA (NEXT HIGHER ASSEMBLY) CODES A OR BLANK = AIRPLANE, G = LANDING GEAR, P = APU, 1, 2, 3 OR 4 = ENGINE

GMM 07-65-40

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	016-A00521984

4. Organization Name and Address	5.Work Order/Contract/Invoice Number
UNITED United Air Lines Inc 233 South Wacker Drive, Chicago, IL 60606 (CALA014A)	WC153

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Qty	11 Serial/Batch #	12. Status/Work
(1)	OIL PRESSURE SWITCH P/N ASP	UA P/N MR49272	N/A	1	UA MR DASH 109	INSPECTED/TESTED

13 Remarks

ITEM 1 INSPECTED AND TESTED I A W UAL SPECIFICATION PER RC-60-49-94-02-JD REV DATE OCT/24/2003
END

SPEC 2000 ID SPL 81979- UCN 264028

[redacted]

19. ☑ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14 Code of Federal Regulations, part 43 and in respect to that work the items are approved for return to service

20 Authorized Signature	21 Approval/Certificate No
	CALA014A
22. Name (Typed or Printed)	**23 Date (m/d/y)**
JAMES APILADO U102005	JUN/27/2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulation of an airworthiness authority different than the airworthiness authority of the country specified in Block 1 it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/assemblies from the airworthiness authority of the country specified in Block 1

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* Installer must cross-check eligibility with applicable technical data

[FAA form 8130-3 (8-01)-NSN 0052-00-012-9005]

24 Stock Control Information		
	RCS CONTROLLED ? YES	PCN 265-3641
	HOME SHOP SFOEC - 153	FINAL ROUTING 265
	SHELF LIFE(IN MONTHS) 99	BATCHABLE? NO
	SHIP & STORE IN CONTAINER	

25 UNITED

26 Part Removed Tag	27 ROUTED BY (PRINT LAST NAME & F/N):	28. STATION:	29. DATE:

30 ON UNIT	PCN	PART NUMBER	DESCRIPTION	DASH NO ON	MFG S/N	UTSO
	265-3641	MR49272	OIL PRESSURE SWITCH P/N ASP	109	C010090	

31 OFF UNIT	PCN	PART NUMBER	DESCRIPTION	DASH NO. OFF	MFG. S/N.

32 REMOVAL & INSTALLATION DATA	COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED		COMPLETE AS REQUIRED	
	PLANE NO	PLANE TT	NHA PCN	NHA DASH #	NHA** CODE	POSITION

REASON FOR REMOVAL OR REPORTED TROUBLE(INCLUDE LINE CENTER/WU):

☐ TIME (SCHEDULED MAINT.) ☐ TROUBLE (SUSPECTED FAILURE OR TROUBLE SHOOTING) ☐ OTHER (COA, DAMAGE, WEAR OR CONVENIENCE)

RECOMMENDED REPAIR/OVERHAUL PROCEDURE REQUIRED

** NHA (NEXT HIGHER ASSEMBLY) CODES A OR BLANK = AIRPLANE, G = LANDING GEAR, P = APU, 1, 2, 3 OR 4 = ENGINE

GMM 07-65-40

E4/23/15
3:06 47 PM

Index Form

Doc. Type:	CD
Tracking Number:	NP0982306
Activity Date:	08/22/13
Doc Number:	EON: V539
Ref Doc:	
Aircraft Number:	
MFG P/N:	
M&E :	
S/N:	2697
OP Step:	
Station:	
ATA Code:	
Fleet:	
Vendor Code:	
Package Type:	ESV
Package Date:	08/22/13
Comments:	APU-200
PREPPED BY :	RITA PAZ — YOUR NAME HERE
PREPPED DATE:	4/3/2015 — TODAY'S DATE

UAL ENGINE / APU ROM Index
Vendor Imaging Systems Control Sheet Version

Section	Item		Description
1	01	☑	Certification form for Scan
2	01	☐	Serviceable Engine & Module Tag
	02	☐	Engine I & R Tags
	03	☐	Module I & R Tags
	04	☐	Non Routine's
	05	☐	Engine Customer Maintenance Tags
	06	☐	Module Customer Maintenance Tags
3	01	☑	Engine Job Instruction Cards
4	01	☑	Module Job Instruction Cards

A	B	C	D	E	F	G
H	I	J	K	L	M	N
P	Q	R	S	T	U	V
W	X	Y				

5	01	☐	COA'S
6	01	☑	Engine Inspection & Condition Sheet, Miscellaneous Documents
	02	☐	Fulfillment Center ICS
7	01	☑	Module Inspection & Condition Sheet

A	B	C	D	E	F	G
H	I	J	K	L	M	N
P	Q	R	S	T	U	V
W	X	Y				

8	01	☑	AD Verification - Checklist
	02	☑	Unit Hard Limit Report
9	01	☑	Final Accountability and Test Cell JIC's
10	01	☑	D-199 (Records Certification)
	02	☑	8130 or ENGVST meter (Engine Certification)
11	01	☐	Customer Documents
12	01	☑	Removal Composition Report
	02	☑	Limit Planning Report
	03	☑	Installation Composition Report

UNITED

RECORDS OF MAINTENANCE

CERTIFICATION FORM

SFOMR/PA Certifies that the *Records of Maintenance* for:

Engine S/N 62697 Order NBR V539

Fleet APU Customer UA Vendor _____

Visit Type ESV Complete or Found As Is (*)and ready for storage and/or scanning (circle which one applies).

Signed Rita Paz
(SFOMR - Maintenance Records Specialist)

*Signed _____
(SFOMR - Maintenance Records Supervisor)

*Dual countersignature by supervisor is needed on this form when "found as is" is circled above.

Date 04-03-15

BOX #

MAYRA FLAHERTY

AUG 2 3 2013

Checklist for 331-200 (V)

EON V539 **S/N** 62697 **DATE** 8/16/13

JOB NUMBERS		COVER PAGE	CHECK
V0100 0	V539	BASE CHECK	
V0103 0	V539	*** ENGINE TEST ***	FINAL
V1000 0	V539	ENGINE DISASSY/ASSY	
V2000 0	NV532	POWER SECTION	
V2005 0	SV	TURBINE SCAVENGE PUMP ASSY JIC or 8130	
V3000 0	AV534	ACCY GEARBOX	
V5000 0	PV	OIL PUMP JIC or 8130	
V6000 0	FV535	LOAD COMPRESSOR	
V6005 0	IV535	IGV ASSY	
V8000 0	NV532	ENGINE BALANCE (Optional)	
V7000 0	LV	STARTER CLUTCH ASSY (Use if different from AV)	

COA	V539	☒ Scheduling Report / ☐ Job Card
COA	NV532	☒ Scheduling Report / ☐ Job Card
COA	AV534	☒ Scheduling Report / ☐ Job Card
COA	FV535	☒ Scheduling Report / ☐ Job Card

BAL ☐ 8130 / ☒ I&R / ☐ LIFE CARD	T1	3840019-1/265-0224 WHEEL ONLY 0135703907
BAL ☐ 8130 / ☒ I&R / ☐ LIFE CARD	T2	3840007-1/265-0222 WHEEL ONLY 0350101589
☒ 8130 / ☒ I&R / ☒ LIFE CARD	T3	3840022-4/265-0223 WHEEL ONLY 0734502190
BAL ☐ 8130 / ☒ I&R / ☐ LIFE CARD	IMPLR-C1	3822067-2/265-0457 0365101491
☒ 8130 / ☒ I&R / ☒ LIFE CARD	IMPLR-C2	3822068-1/265-0210 0322900940
☐ 8130 / ☒ I&R / ☐ LIFE CARD	IMPLR	3822080-3/265-0059 0650109938

V1522 0 Give to Inspection to make serviceable (S)
To show in ENGMOD/ENGRVW

NOTE TO MR AT 9 30AM

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, BASE CHECK

REV. 4/26/07

V539	62697	V0100.0
ORDER NO.	ENGINE NO.	JOB NO

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

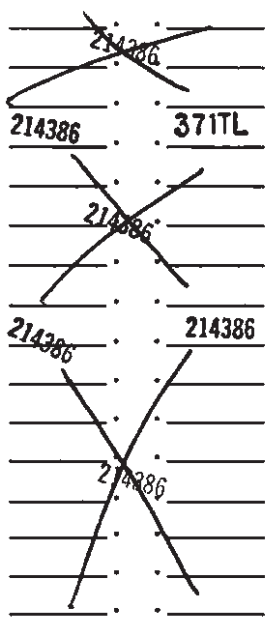
NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT



V0002.0	- NON-ROUTINE ACCOUNTABILITY
V0005.0	PARTS AS-RECVD INVENTORY- CUST/LEASE
V0010.0	MR UNIT/TAG ACCOUNTABILITY LIST
V0101.0	BASE CHECK - PRELIMINARY SERVICE
V0101.1	BASE CHECK - FINAL SERVICE
V0101.2	CSV - C CHECK
V0101.5	BASE CHECK - PRELIM. SERVICE-CUSTOMER
V0101.6	BASE CHECK - FINAL SERVICE-CUSTOMER
V0102.0	BASE CHECK INSPECTION
V0102.1	M.I.S. CLEAN UP

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, BASE CHECK

REV. 4/26/07

V539	62697	V0100.0
ORDER NO	ENGINE NO	JOB NO

214386

214386

2 NO COA'S 214386

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

SIGNATURE: 214386 DATE: 2/15/13

END JOB V0100.0 REVISED 4/26/07

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK - PRELIMINARY SERVICE

REV. 3/5/13

V539	62697	V0101.0
ORDER NO.	ENGINE NO	JOB NO

NOTE - SET TORQUE WRENCH TO THE TORQUE VALUE SPECIFIED. IF NO TORQUE VALUE IS SPECIFIED, USE STANDARD TORQUE PER GN-8-0-2-14.

CAUTION - SCRAP ANY SELF LOCKING NUT WHICH CAN BE TURNED PAST ITS LOCKING FEATURE BY HAND.

WARNING - REMOVAL OF CHIP DETECTOR HOUSING WILL CAUSE OIL TO DRAIN FROM APU. HOT OIL CAN CAUSE BURNS. TAKE NECESSARY PRECAUTIONS.

M 5474 1. -----C CHECK REQUIRED ITEM----- REMOVE THE FOLLOWING AND CHECK FOR METAL. IF METAL FOUND NOTIFY INSPECTION AND REQUEST JIC V0102.1 FROM SCHEDULE CENTER. REMOVE INLET SCREEN, T-DUCT AND SURGE VALVE ELBOW FOR BOROSCOPE ACCESS. IF METAL NOT FOUND, PROCEED TO NEXT SIGNOFF.

A. GEARBOX MAGNETIC CHIP DETECTOR AND CHIP DETECTOR HOUSING.
METAL FOUND YES _____ NO 5474

B. GENERATOR MAGNETIC CHIP DETECTOR AND CHIP DETECTOR HOUSING.
METAL FOUND YES _____ NO 5474

EMAC 60 4927 004AA 1AC
EMAC 50 4927 004JA 1A
MRB 49-016 - 757
MRB 49-014 - 767

M 5474 2. -----C CHECK REQUIRED ITEM----- REMOVE THE FOLLOWING IF INSTALLED, AND CHECK FOR METAL. IF METAL FOUND, NOTIFY INSPECTION AND REQUEST JIC V0102.1 FROM SCHEDULE CENTER. IF METAL NOT FOUND, PROCEED TO NEXT SIGNOFF.

371TL
_____L

ALL ITEMS ARE PROPERLY SIGNED OFF.

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK - PRELIMINARY SERVICE

REV. 3/5/13

V539	62697	V0101.0
ORDER NO	ENGINE NO	JOB NO

A. TURBINE MAGNETIC CHIP DETECTOR AND CHIP DETECTOR HOUSING.
METAL FOUND YES _____ NO 5474

B. COMPRESSOR MAGNETIC CHIP DETECTOR AND CHIP DETECTOR HOUSING.
METAL FOUND YES _____ NO 5474

EMAC 60 4927 004AE 1A
EMAC 50 4927 004JB 1A
MRB 49-063 - 757

MRB 49-059 - 767

M 5474 3. -----ENGINE SHOP VISIT REQUIRED ITEM-----
REMOVE MONOPOLE AND CHECK FOR METAL AND STRIKE. IF METAL OR STRIKE FOUND, NOTIFY INSPECTION AND REQUEST JIC V0102.1 FROM SCHEDULE CENTER.
IF NEITHER FOUND, PROCEED TO NEXT SIGN-OFF.

METAL FOUND YES _____ NO 5474
STRIKE YES _____ NO 5474

M 5474 4. -----C CHECK REQUIRED ITEM----- VISUALLY CHECK MAIN OIL FILTER DIFFERENTIAL PRESSURE INDICATOR AND RECORD FINDINGS. EXTENDED - YES_____ NO 5474

EMAC 60 4927 007AB 1AC
EMAC 50 4927 007JA 1A
MRB 49-023 - 757
MRB 49-022 - 767

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK - PRELIMINARY SERVICE

REV. 3/5/13

V539	62697	V0101.0
ORDER NO	ENGINE NO	JOB NO

M 5474 5. -----C CHECK REQUIRED ITEM----- REMOVE OIL FILTER ELEMENT AND CHECK FOR CONTAMINATION OR DAMAGE. IF EITHER CONTAMINATION OR DAMAGE FOUND, NOTIFY INSPECTION. IF OIL FILTER ELEMENT OK, REINSTALL.

NOTE - O-RING MUST BE REPLACED REGARDLESS OF OIL FILTER ELEMENT CONDITION.

METAL FOUND YES _____ NO 5474

EMAC 60 4927 003AC 4A
EMAC 50 4927 003GA 3A
MRB 49-024 - 757
MRB 49-023 - 767
MRB 49-025 - 767

M 5474 6. -----C CHECK REQUIRED ITEM----- VISUALLY CHECK GENERATOR FILTER DIFFERENTIAL PRESSURE INDICATOR AND RECORD FINDINGS. EXTENDED - YES_____ NO 5474

EMAC 60 4927 015JF 1AC
EMAC 50 4927 003JB 1A
MRB 49-025 - 757
MRB 49-024 - 767

M 5474 7. -----ALL SHOP VISIT REQUIRED ITEM-----REMOVE GENERATOR OIL SCAVENGE FILTER AND CHECK FOR METAL. IF METAL FOUND NOTIFY INSPECTION AND REQUEST JIC V0102.1 FROM SCHEDULE CENTER. IF METAL NOT FOUND, REINSTALL OLD FILTER AND PROCEED TO NEXT SIGN-OFF.

OCT2013

METAL FOUND YES _____ NO 5474

EMAC 60 4927 003AI 4A
EMAC 50 4927 003GA 3A
MRB 49-024 - 757
MRB 49-0F 26 767

37177L

ALL ITEMS ARE PROPERLY SIGNED OFF.

214386

8. BEFORE CONTINUING WITH BASE CHECK SERVICE, CONTACT PLANNING CONTROL CENTER FOR SCHEDULING OF BASE CHECK INSPECTION JIC V0102.0.

I

9. IF ENGINE TO BE COMPLETELY DISASSEMBLED, AND ALL MODULES TO BE ROUTED FOR DISASSEMBLY, NO FURTHER INSPECTION SIGN-OFFS REQUIRED, THEN PROCEED TO STEP 11.

I

10. VISUALLY INSPECT ALL DRIVEN COMPRESSOR IMPELLER BLADES FOR DAMAGE AND/OR IRREGULARITIES, INCLUDING LEADING AND TRAILING EDGE WITH BOROSCOPE. ALSO VISUALLY INSPECT POWER SECTION C1 IMPELLER BLADES FOR DAMAGE AND IRREGULARITIES.

NOTE - NOTIFY SFOEP APU ENGINEERING IF DAMAGE FOUND.

DAMAGE FOUND YES_____ NO_____

M 5474

11. -----C CHECK REQUIRED ITEM----- VISUALLY CHECK FUEL FILTER DIFFERENTIAL PRESSURE INDICATOR AND RECORD FINDINGS.

EXTENDED - YES _____ NO 5474

IF INDICATOR EXTENDED, CHANGE FILTER AND RESET INDICATOR.

EMAC 60 4931 010AB 1AC
EMAC 50 4931 004JA 1A
MRB 49-033 - 757
MRB 49-032 - 767

M 5474

12. DISCONNECT PNEUMATIC LINES FROM ALL COMPONENTS THEN BLOW OUT LINES USING SHOP AIR.

371TL L

ALL ITEMS ARE PROPERLY SIGNED OFF.

M 6474 13. -----ALL SHOP VISIT REQUIRED ITEM-----
REMOVE PNEUMATIC LINE AND ELBOW FITTING FROM COMPRESSOR INLET PRESSURE SENSOR. BLOW OUT LINE AND FITTING WITH SHOP AIR OR ULTRASONIC CLEAN. MAKE SURE PORT IN INLET PLENUM IS CLEAN WITHOUT DESTRUCTION.

TUBE CLEARED: YES 6474 NO_____

371TL LM 6474 14. -----ALL SHOP VISIT REQUIRED ITEM-----CHECK INLET GUIDE VANE LINKAGE WEAR AS FOLLOWS.

A. REMOVE IGVA COVER. VISUALLY CHECK FOR WEAR ON TRUNNION BUSHING. VISABLE WEAR IS CAUSE FOR TRUNNION BUSHING REPLACEMENT.

TRUNNION BUSHING REPLACED YES_____ NO 6474

B. REMOVE BOLT ATTACHING BELLCRANK TO LINKAGE ROD END. CHECK FOR WEAR IN BELLCRANK AND FOR DAMAGE OR WEAR TO FORKS. SIDE PLAY AT BELLCRANK PIVOT POINT IS CAUSE FOR BELLCRANK REPLACEMENT. IF BELLCRANK IS REPLACED, REPLACE TRUNNION BUSHING REGARDLESS OF CONDITION.

BELLCRANK REPLACED YES_____ NO 6474

NOTE - BELLCRANK PIVOT POINT WEAR HAS BEEN NOTED. ANY PLAY IN BELLCRANK INDICATES PIVOT POINT BEARING WEAR.

C. CHECK TRUNNION BLOCK FOR LOOSENESS WHERE TRUNNION ATTACHES TO BELLCRANK. AXIAL FREEPLAY OF BELLCRANK TO TRUNNION IN EXCESS OF 0.020 INCH IS CAUSE FOR TRUNNION BUSHING REPLACEMENT. IF BELLCRANK IS REPLACED, REPLACE BUSHING REGARDLESS OF CONDITION.
CHECK TRUNNION BLOCK FOR DAMAGE AND REPLACE IF DAMAGED.

TRUNNION BLOCK REPLACED YES_____ NO 5474

D. CHECK FOR FREEPLAY IN IGV LINKAGE AND FOR AXIAL PLAY IN ROD ENDS BY MOVING ROD IN AND OUT. AXIAL PLAY UP TO 0.080 INCH WITH NO VISUAL MOVEMENT IN VANES IS ACCEPTABLE.

NOTE - EXCESS FORCE SHOULD NOT BE APPLIED TO OPEN AND CLOSE INLET GUIDE VANES. SIDE PLAY CAUSED BY ROD END BEARING IS NORMAL.

E. REPLACE WORN EXTERNAL PARTS AND REINSTALL IN ACCORDANCE WITH SHOP PROCEDURE 49-25-01/SP AND/OR 49-10-01/SP.

EMAC 60 4952 099AA 2A1C

M 5474 15. CHECK LRU CLUTCH FOR FREE ROTATION IN CLOCKWISE DIRECTION AND FOR SLIPPAGE OR BINDING IN COUNTER CLOCKWISE DIRECTION. REPLACE IF ANY SLIPPAGE OR BINDING FOUND.

REPLACED: YES_____ NO 5474

M 5474 16. REMOVE THE IGNITION LEAD AND PLACE ON CART FOR INSPECTION (EID/REPAIR).

M 6474 17. -----ALL SHOP VISIT REQUIRED ITEM----- REMOVE IGNITOR PLUG AND ADAPTER AND DISCARD PLUG AND GASKETS REGARDLESS OF CONDITION. NOTE CONDITION OF REMOVED PLUG BY STAMPING A OR BELOW BELOW:

6474 A THE DISTANCE BETWEEN EDGE OF ELECTRODE AND INSIDE OF UNERODED EDGE OF GROUND SHELL TIP IS LESS THAN 0.090 INCH. UNIFORM EROSIION OF ELECTRODE AND OUTER SHELL IS ACCEPTABLE. NO CRACKS OR CHIPPED AREA ON CERAMIC INSULATOR.

B. DISTANCE BETWEEN EDGE OF ELECTRODE AND INSIDE OF UNERODED EDGE OF GROUND SHELL TIP IS GREATER THAN 0.090 INCH. ANY CRACK OR CHIPS ON INSULATION AREA.
ELECTRICAL CONNECTOR PIN BURNED OR BENT.
ANY BROKEN OR MISSING PARTS.
SCRAP PLUG LOCALLY.

EMAC 60 4941 002AA 3A1C

M 6474 18. -----ESV REQUIRED ITEM----- PERFORM HEAT CHECK OF THERMOCOUPLE HARNESS AND RECORD FINDINGS.

LEFT SIDE OPERATIVE - YES 6474 NO_____
RIGHT SIDE OPERATIVE - YES 6474 NO_____

CONNECT EGT GAGE TO THERMOCOUPLE HARNESS, P2 PLUG, PINS 10 AND 24 FOR #1 PAIR AND PINS 11 AND 25 FOR #2 PAIR. USING PORTABLE BOTTLE GAS APPLY LOCALIZED HEAT, 1200 F (650 C) MAXIMUM TO EACH PROBE ONE AT A TIME. EGT GAGE SHOULD RESPOND FOR EACH PROBE. IF ANY PROBE DOES NOT RESPOND TO HEAT CHECK, REPLACE PROBE.

M 6474 19. -----ESV C CHECK REQUIRED ITEM------
CIRCLE AND ACCOMPLISH A OR B BELOW:

A. IF TIME SINCE HARNESS INSTALLATION IS GREATER THAN 4 YEARS OR NO DATE TAG, ROUTE HARNESS TO HOME SHOP.

EMAC 60 4914 000AA

6474 B. IF TIME SINCE HARNESS INSTALLATION IS LESS THAN 4 YEARS, CHECK WIRING INSULATION FOR BREAKS OR ABRASIONS AND REPAIR AS NEEDED. VISUALLY CHECK ALL MAIN HARNESS CONNECTOR SOCKETS FOR EVIDENCE OF ARCING. REPLACE SOCKETS AS NEEDED. (THIS CHECK IS NOT REQUIRED FOR EGT HARNESSES). IF SBV OR LCV CONNECTORS ARE OLD STYLE WITH CERAMIC INSULATOR, CUT OFF AND DISCARD. IF ELECTRICAL SYSTEM FAILS FUNCTIONAL CHECK, ROUTE HARNESS TO HOME SHOP.

EMAC 60 4910 002FC ESV
EMAC 50 4914 000AB ESV

M 6474 20. IF COOLING AIR SHUTOFF VALVE IS PRESENT, NOTIFY SFOEP APU ENGINEERING. REMOVE COOLING AIR SHUTOFF VALVE AND ROUTE TO HOME SHOP. INDICATE BELOW IF VALVE IS INSTALLED:

_____ A. COOLING AIR SHUTOFF VALVE INSTALLED.

6474 B. COOLING AIR SHUTOFF VALVE NOT INSTALLED.

NOTE - IF COA Y91710 OR M94260 HAS BEEN ACCOMPLISHED, COOLING FAN SHUT-OFF VALVE HAS BEEN DELETED AND NO ACTION IS REQUIRED.

371TL LM 6474 21. -----ALL SHOP VISIT REQUIRED ITEM-----
ACCOMPLISH THE FOLLOWING AND CIRCLE A OR B BELOW:

6474 A. COOLING FAN IS NOT LEAKING OIL. DO NOT ROUTE.

371TL L ALL ITEMS ARE PROPERLY SIGNED OFF.

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

ITem 21B: Stamped in error 5474

5474

~~5474~~ B. COOLING FAN IS LEAKING OIL.
ROUTE COOLING FAN FOR REPAIR.

FAN ROUTED: YES____ NO 5474

M 5474 22. APUSAM1: IF APUSAM1 EVENT IS UNKNOWN, EQUAL OR GREATER THAN 1000 HOURS, ACCOMPLISH THE FOLLOWING FOR ESV ONLY:

A. CHECK PRESSURE RELIEF VALVE COMBUSTOR DRAIN.

REMOVE DRAIN TUBE AND PRESSURE VALVE. CHECK TO SEE IF VALVE CLOSES BETWEEN 10 - 15 PSIG. REPLACE VALVE IF OUT OF LIMIT ON CLOSING PRESSURE.

CAP VALVE IF NOT RE-INSTALLED

ACTUAL PSI: 11

VALVE REPLACED: YES____ NO 5474

B. GEARBOX PRESSURE REGULATING VALVE AND ROUTE.

REMOVE GEARBOX REGULATING VALVE ADAPTER AND ROUTE ON ENGINE CART FOR INSPECTION OR CLEANING PER GN 4-0-3-20.

C. ROUTE OIL COOLER TO HOME SHOP.

M 5474 23. APUSAM2: IF APUSAM2 EVENT IS UNKNOWN, EQUAL TO OR GREATER THAN 2000 HOURS, ACCOMPLISH THE FOLLOWING FOR ESV ONLY:

A. REMOVE STARTER MOTOR AND ROUTE TO HOME SHOP.

NOTE - IF STARTER MOTOR IS P/N 519858-6. ROUTE TO HOME SHOP REGARDLESS OF TIME.

B. REMOVE SURGE CONTROL VALVE AND ROUTE TO HOME SHOP.

C. REMOVE STARTER CLUTCH AND ROUTE TO HOME SHOP.

M 5474 24. APUSAM3: IF APUSAM3 EVENT IS UNKNOWN, EQUAL OR GREATER THAN 3000 HOURS, ACCOMPLISH THE FOLLOWING FOR ESV ONLY:

A. REMOVE GENERATOR DIFFERENTIAL PRESSURE SWITCH AND ROUTE TO HOME SHOP.

B. REMOVE FLOW SENSING MODULE AND ROUTE TO HOME SHOP.

C. REMOVE EXCITER UNIT AND ROUTE TO HOME SHOP.

D. REMOVE THE LOW OIL TEMPERATURE SWITCH AND ROUTE TO HOME SHOP.

E. ROUTE GEARBOX SHUTOFF VALVE TO HOME SHOP.

F. REMOVE SHUTTLE VALVE. DISASSEMBLY VALVE, CLEAN, REPLACE SEALS, AND REASSEMBLE.

G. REMOVE FLOW DIVIDER VALVE ASSEMBLY AND ROUTE FOR BENCH TEST OR REPAIR.

H. REMOVE LOW OIL PRESSURE SWITCH AND ROUTE TO HOME SHOP.

I. REMOVE THE FUEL CONTROL FOR BENCH TEST.

J. REMOVE THE COMPRESSOR INLET PRESSURE SENSOR (P2) AND ROUTE TO HOME SHOP.

K. REMOVE DE-OILER SOLENOID AND ROUTE TO HOME SHOP.

L. REMOVE COOLING FAN AND ROUTE TO HOME SHOP.

M. REMOVE LUBE PUMP ASSY AND ROUTE TO HOME SHOP.

N. REMOVE INLET GUIDE VANE ACTUATOR AND ROUTE TO HOME SHOP.

O. REMOVE AND TAG TURBINE SCAVENGE PUMP FOR ROUTING ON NV MODULE.

M 5474 25. CONTACT INSPECTION TO PERFORM EMOEVT TRANSACTION.

I 037564 26. PERFORM EMOEVT TRANSACTION FOR APU EVENTS ACCOMPLISHED.

_____L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK - PRELIMINARY SERVICE

REV. 3/5/13

V539	62697	V0101.0
ORDER NO	ENGINE NO	JOB NO

END JOB V0101.0 REVISED 3/5/13

551

_____L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK INSPECTION

REV. 1/7/09

V539	62697	V0102.0
ORDER NO	ENGINE NO	JOB NO

THE FOLLOWING ARE INSPECTED TO SATISFY "C" CHECKS AND BASE ENGINE CHECK REQUIREMENTS PER GTCP331 EID 49-10-01/I00 AND INTRODUCTION/POLICY SECTION IN BOOK "0". INITIATE NON-ROUTINE (SFR4129) AS REQUIRED AND/OR RE-REVIEW ENGINE TO ACCOMPLISH CORRECTIVE ACTION.

QC75564 I 1. REVIEW OPEN ELR ITEMS USING "ENGWRK" IN AMIS. STAMP A, B, OR C.

_____ I A. CUSTOMER ENGINE. NOT APPLICABLE. PROCEED TO NEXT ITEM.

QC75564 I B. ELR ITEMS NOT PRESENT. PROCEED TO NEXT ITEM.

_____ I C. TRANSFER "ELR" ITEMS TO NON ROUTINES AND LIST BELOW. ACCOMPLISH "ENDATA" TRANSACTION TO CLEAR ELR ITEMS.

ELR	NON ROUTINE	ELR	NON ROUTINE

QC75564 I 2. STAMP A OR B BELOW.

_____ I A. ENGINE TO REMAIN IN STALL. PROCEED TO NEXT ITEM.

QC75564 I B. POWER SECTION TO BE COMPLETELY DISASSEMBLED. ALL MODULES TO BE ROUTED FOR DISASSEMBLY OR ROUTED WITH ENGINE EXTERNALS FOR MODULE INSPECTION. NO FURTHER SIGN-OFFS REQUIRED.

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK INSPECTION

REV. 1/7/09

V539	62697	V0102.0
ORDER NO	ENGINE NO	JOB NO

_____I	3. VISUALLY INSPECT DRIVEN COMPRESSOR IMPELLER BLADES INCLUDING LEADING AND TRAILING EDGES FOR DAMAGE WITH BORESCOPE.
_____I	4. VISUALLY INSPECT POWER SECTION C1 IMPELLER BLADES FOR DAMAGE AND IRREGULARITIES.
_____I	5. VISUALLY CHECK INLET OF DRIVEN COMPRESSOR AND POWER SECTION FOR DAMAGE.
_____I	6. VISUALLY INSPECT EXPOSED AREAS OF GEARBOX.
_____I	7. VISUALLY INSPECT POWER SECTION INSULATION BLANKET AND HEAT SHIELD EXPOSED AREAS INCLUDING COMBUSTION CHAMBER CASE DUCT AREA.
_____I	8. VISUALLY INSPECT GEARBOX MOUNTS.
_____I	9. VISUALLY INSPECT FWD AND AFT MOUNT BRACKETS.
_____I	10. VISUALLY INSPECT COOLING FAN AND SURGE VALVE DUCTING.
_____I	11. VISUALLY INSPECT PLUMBING AND COMPONENTS. EMAC 60 4953 000AA 1C MRB 49-044 - 757 MRB 49-045 767
_____I	12. VISUALLY INSPECT DRAIN LINES, DRAIN MAST AND CONNECTIONS.
_____I	13. VISUALLY INSPECT FUEL SYSTEM PLUMBING AND COMPONENTS.
_____I	14. VISUALLY INSPECT EXHAUST CASE AND MUFFLER.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK INSPECTION

REV. 1/7/09

V539	62697	V0102.0
ORDER NO	ENGINE NO	JOB NO

_____I 15. VISUALLY INSPECT ALL VISIBLE CLAMPS AND BRACKETS.

****

NON-ROUTINES ISSUED:

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK INSPECTION

REV. 1/7/09

V539	62697	V0102.0
ORDER NO	ENGINE NO	JOB NO

END JOB V0102.0 REVISED 1/7/09

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, ENGINE DISASSY/ASSY

REV. 4/26/07

V539	62697	V1000.0
ORDER NO	ENGINE NO	JOB NO

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

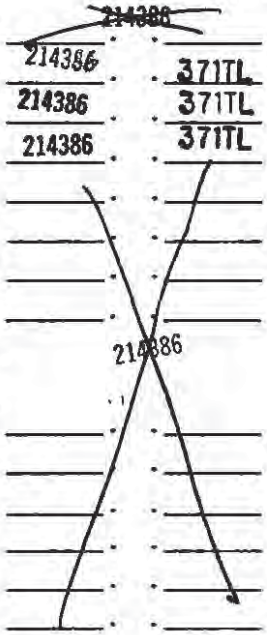
NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT



V0002.0	- NON-ROUTINE ACCOUNTABILITY
V1010.0	49-10-01ENGINE DISASSEMBLY
V1020.0	EXTERNAL PARTS - CLEANING
V1040.0	ENGINE ASSEMBLY - UAL
V1040.1	ENGINE ASSEMBLY- CUSTOMER
V1080.0	QEC REMOVAL
V1090.0	QEC INSTALLATION
V1090.1	QEC INSTALLATION - B757

NOTE - INCLUDE 60-49-10-01-02 ICS - V EXTERNALS WITH LOG PACKAGE.

7

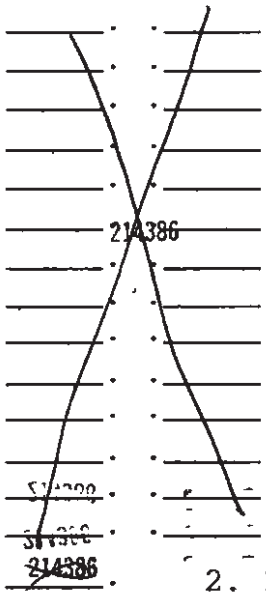
STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, ENGINE DISASSY/ASSY

REV. 4/26/07

V539	62697	V1000.0
ORDER NO	ENGINE NO	JOB NO



2 NO COA'S 214386

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

SIGNATURE: 214386 DATE: 8/20/13

END JOB V1000.0 REVISED 4/26/07

ENGINE MAINTENANCE DEPARTMENT

UNITED

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-10-01ENGINE DISASSEMBLY

REV. 6/15/00

V539	62697	V1010.0
ORDER NO	ENGINE NO	JOB NO

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-10-01.

M 5474 1. REMOVE GENERATOR.

M 5474 2. REMOVE SURGE VALVE AND DUCTS.

M 5474 3. REMOVE COOLING FAN DUCTS.

M 5474 4. REMOVE OIL COOLER.

M 5474 5. DISCONNECT AND REMOVE ELECTRICAL HARNESS.

M 5474 6. REMOVE ENGINE PLUMBING.

M 5474 7. REMOVE BLEED AIR DUCT.

M 5474 8. REMOVE COOLING FAN.

M 5474 9. REMOVE STARTER.

M 5474 10. REMOVE FUEL CONTROL.

M 5474 11. REMOVE LUBE PUMP.

M 5474 12. REMOVE GENERATOR SCAVENGE FILTER.

M 5474 13. REMOVE GEARBOX ADAPTER, SOLENOID VALVE AND REGULATOR VALVE.

M 5474 14. REMOVE MANUFACTURING ENGINE DATA PLATE.

M 5474 15. REMOVE INLET PLENUM.

M 5474 16. DISASSEMBLE UPPER INLET PLENUM.

M 5474 17. REMOVE INLET SCREENS.

M 5474 18. REMOVE GEARBOX.

M 5474 19. REMOVE DRIVEN COMPRESSOR.

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-10-01ENGINE DISASSEMBLY

REV. 6/15/00

V539	62697	V1010.0
ORDER NO	ENGINE NO.	JOB NO

END JOB V1010.0 REVISED 6/15/00

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551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 EXTERNAL PARTS - CLEANING

REV. 6/3/03

V539	62697	V1020.0
ORDER NO	ENGINE NO	JOB NO

1. U 7926 UTILITY MECHANIC (U) CLEAN EXTERNAL COMPONENT PARTS PER GN 4-0-3-20 PROCESS 01 (SOLVENT CLEAN), AND/OR GN 4-0-3-20 PROCESS 2C.

   A. OIL LINES, DUCT ASSEMBLIES, OIL FITTINGS AND TUBES. WASH EXTERIOR AND INJECT SOLVENT INTO INTERIOR PASSAGES. ASSURE ALL PASSAGES ARE NOT OBSTRUCTED AND FREE OF DEPOSITS

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

331-200 EXTERNAL PARTS - CLEANING

REV. 6/3/03

V539	62697	V1020.0
ORDER NO	ENGINE NO	JOB NO

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

END JOB V1020.0 REVISED 6/3/03

371TL
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551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ENGINE ASSEMBLY - UAL

REV. 6/26/13

V539	62697	V1040.0
ORDER NO.	ENGINE NO	JOB NO

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-10-01/SP01.

I 1. **NOTE** - *VERIFY AREA IS INTACT AND FREE OF DEFECTS AND ALL DEBRIS.*
REFERENCE PAOG 45-55-30-06

371TL LM 5810 A. INSTALL DRIVEN COMPRESSOR.

M 5810 2. INSTALL INLET SCREENS.

I 3. **NOTE** - *VERIFY AREA IS INTACT AND FREE OF DEFECTS AND ALL DEBRIS.*
REFERENCE PAOG 45-55-30-06

371TL LM 5810 A. INSTALL GEARBOX.

M 5810 4. PREASSEMBLE UPPER INLET PLENUM.

M 5810 5. INSTALL INLET PLENUM.

M 5810 6. INSTALL MANUFACTURING ENGINE DATA PLATE

M 5810 7. INSTALL MONOPOLES.

M 5810 8. INSTALL GENERATOR SCAVENGE FILTER AND GENERATOR DELTA P SWITCH.

M 5810 9. INSTALL GEARBOX ADAPTER, DE-OIL SOLENOID VALVE AND REGULATOR VALVE (ETOPS CONFIGURATION).

M 5810 10. INSTALL LUBE PUMP DE-OIL TUBE AND FUEL CONTROL. (ETOPS CONFIGURATION)

M 5810 11. DO NOT CLAMP FUEL LINE TO BRACKET BETWEEN FUEL CONTROL AND FLOW DIVIDER VALVE.

M 5810 12. INSTALL MAIN OIL FILTER ELEMENT.

551

371TL L ALL ITEMS ARE PROPERLY SIGNED OFF.

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

ITEM #13 NOT REQUIRED 5810

ITEM #19 NOT REQUIRED 5810

Job Instruction Card

331-200 ENGINE ASSEMBLY - UAL

REV. 6/26/13

V539	62697	V1040.0
ORDER NO	ENGINE NO	JOB NO

5810 M X 13. INSTALL LRU CLUTCH ASSEMBLY.

M 5810 14. INSTALL OIL COOLER.

M 5810 15. INSTALL STARTER. (ETOPS CONFIGURATION)

M 5810 16. INSTALL COOLING FAN.
DUPLICATE SIGNOFF V0101.1
DUPLICATE SIGNOFF V0101.2

M 5810 17. INSTALL FLOW DIVIDER VALVE.

M 5810 18. INSTALL BLEED AIR DUCT.

5810 M X 19. INSTALL IGV ACTUATOR.

M 5810 20. INSTALL SURGE CONTROL VALVE.

M 5810 21. INSTALL COMBUSTOR DRAIN PRESSURE RELIEF VALVE.

M 5810 22. INSTALL ENGINE PLUMBING.

M 5810 23. INSTALL FLOW SENSING MODULE.
CHECK FLOW SENSE MODULE AND INDICATE A OR B BELOW.

5810 A. ADJUSTABLE

_____ B. NON-ADJUSTABLE

OCT[illegible]

M 5810 24. INSTALL COMPRESSOR INLET PRESSURE SENSOR (P2)

M 5810 25. INSTALL GEARBOX SHUTOFF VALVE.

M 5810 26. INSTALL OIL LEVEL SWITCH.

M 5810 27. INSTALL LOW OIL TEMPERATURE SWITCH.

M 5810 28. INSTALL ELECTRICAL HARNESS.
(VERIFY DATE TAG IS INSTALLED)

OCT[illegible]

3/11L L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

ITEM #38 NOT REQUIRED 5810

Job Instruction Card

331-200 ENGINE ASSEMBLY - UAL

REV. 6/26/13

V539	62697	V1040.0
ORDER NO	ENGINE NO	JOB NO

M 5810 29. INSTALL OIL COOLER AND FLEX LINES COA 5-9104 (ETOPS CONFIGURATION).

M 5810 30. INSTALL COOLING FAN DUCTS.

M 5810 31. INSTALL SURGE VALVE DUCTS.

M 5810 32. INSTALL GENERATOR

NOTE - LUBRICATE APU INPUT SPLINE SHAFT AND O-RINGS WITH GRE4505-1 (CMP 49-01-01).

M 5810 33. INSTALL LOP SWITCH.(ETOPS CONFIGURATION)

M 5810 34. INSTALL HOT SWITCH.

M 5810 35. INSTALL IGNITION EXCITER (ETOPS CONFIGURATION)

M 5810 36. INSTALL GENERATOR AND CONFIRM INSTALLATION OF 1 GENERATOR MAGNETIC CHIP DETECTORS (ETOPS CONFIGURATION).

M 5810 37. INSTALL IGNITION PLUG AND LEAD.

M ~~5810~~ 38. INSTALL PRISMATIC OIL LEVEL SIGHT GAGE COA 6-9237.

M 5810 39. INSTALL 331-200ER APU DATA PLATE (ETOPS CONFIGURATION) COA 5-9004.

M 5810 40. INSTALL FRONT ENGINE MOUNTS.

-------CONTINUOUS AIRWORTHINESS ITEM----------

CHECK SAFETY

M 5810 41. INSTALL OIL CAP AND ADAPTER ASSEMBLY COA 5-9110.

LM 5810 42. FINAL ASSEMBLY VERIFICATION.

A.VISUALLY VERIFY ALL PLUMBING IS PROPERLY INSTALLED.

551

371TL L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

B. VISUALLY VERIFY ALL ELECTRICAL CONNECTORS ARE INSTALLED.

C. VERIFY PRESENCE AND CONDITION OF SAFETY WIRING.

D. VERIFY ENGINE ROTATES SMOOTHLY. LIMITED RUB OF SEALS IN POWER SECTION IS ACCEPTABLE.

I 43. VISUALLY VERIFY INLET IS FREE OF F.O.D.

NOTE - *VERIFY AREA IS INTACT AND FREE OF DEFECTS AND ALL DEBRIS.*
REFERENCE PAOG 45-55-30-06

END JOB V1040.0 REVISED 6/26/13

371TL
L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

UNITED AIRLINES

GTCP331-200ER APU Engine Manual - Inspection and Condition Sheet

ENGINE
60-49-10-01-02 ICS

DISTRIBUTION 551

ENGINE S/N 62697 ORDER NO V539

VADE NO _____ CUSTOMER UA ENGINE TYPE. V

REASON FOR REMOVAL Low Bleed pressure

COMMENTS _____

DISPOSITION CODES.	E =	MODULE MEETS EID REQUIREMENTS (ZERO TIME SINCE MODULE INSPECTION) PART MEETS DETAIL PART EID REQUIREMENTS (ZERO TIME SINCE DETAIL PART INSPECTION)
	A =	EXPOSED AREA OF PART MEETS VISUAL REQUIREMENTS OF APPROPRIATE EID (CONTINUED TIME SINCE DETAIL PARTS INSPECTION)
	C =	ROUTED OR CORRECTIVE ACTION TAKEN
	ATA# S/L-SEQ	EID NUMBER [49 precedes numbers shown (49) 31 -XX] SECTION / LIST - SEQUENCE NUMBER
	OFF LOG FUNC#	STAMP TO INDICATE PART/MODULE OFF-LOG FUNCTION NUMBER

NOTE Sign off appropriate disposition code More than one code may be signed

NOTE Indicate condition of unserviceable parts regardless of disposition.

NOTE : To clear parts not exposed, draw a line through the complete entry and stamp in the left margin

NOTE · If part is routed on an R&R Tag, it is mandatory to stamp the applicable "E" or "A" Block and write "R&R" in the "C" Block. Then complete the appropriate computer transaction.

NOTE Parts having no specific EID will be visually inspected per 60-49-00-00 Book "0", Introduction, Section 4, A4.

Engine Inspection Guide·

I _____ (1) Convenience Shop Visit (CSV), Project Engine Visit (PEV) or Other Shop Visit (OTH) No parts and/or modules removed or exposed No further sign-off required.

I QC18617 (2) Engine Shop Visit (ESV), Convenience Shop Visit (CSV), Project Engine Visit (PEV) or Other Shop Visit (OTH) Parts and/or modules were removed or exposed Sign-off or void out the following items as required

Control Date 20070429

ENGINE S/N 62697 ORDER NO V539

E	A	C	ITEM NOMENCLATURE	ATA # S/L SEQ	OFFLOG FUNC #	ROUTING / CONDITION
QC18617			CLAMP, V BAND 2 EA	10-00-02 50-070	XXX 5749	
QC18617			CLAMP, V BAND	10-00-02 50-570	XXX 5575	
QC18617			CLAMP, V BAND 2 EA	10-00-02 50-580	XXX 5776	
QC18617			CLAMP, V BAND	10-00-02 50-590	XXX 5777	
QC18617			PLENUM, LOWER	21-01-00 10-275	XXX 2280	
		QC18617	PLENUM, UPPER	21-02-00 10-270	XXX 2279	damage OSV
QC18617			SCREEN, INLET	21-03-00 10-255	XXX 5737	
QC18617			COVER, MONOPOLE	21-04-00 50-140	XXX 5753	
QC18617			COVER, MONOPOLE	21-04-00 50-260	XXX 5758	
QC18617			COVER, ACCESS PORT	21-06-00 50-300	XXX 5761	
QC18617			SHAFT, QUILL	26-22-00 18-105	XXX 5683	
QC18617			SHAFT, QUILL	26-22-00 11-200	XXX 2246	
QC18617			ADAPTER	27-03-00 50-010	XXX 2235	
QC18617			TUBE, OIL COOLER LONG	27-11-00 50-610	XXX 14501	
QC18617			TUBE, OIL COOLER SHORT	27-11-00 50-620	XXX 14502	
QC18617			BRACKET, OIL COOLER	52-15-00 01-310	XXX 2266	
		QC18617	DUCT, TEE	53-00-01 50-030	XXX 2238	crk. OSV
QC18617			DUCT, SURGE	53-00-01 50-060	XXX 5748	

ENGINE S/N 62697 ORDER NO V539

E	A	C	ITEM NOMENCLATURE	ATA # / S/L SEQ	OFFLOG / FUNC #	ROUTING / CONDITION
QC18617			DUCT, ELBOW	53-00-01	XXX	
				50040	2249	
QC18617			SENSOR, STATIC	53-18-00	XXX	
				50-600	11778	
QC18617			BRACKETS	10-01-00	XXX	
				331 IPC		
QC18617			TUBING	10-01-00	XXX	
				331-IPC		
QC18617			HOSES	10-01-00	XXX	
				331-IPC		
	QC18617		GENERATOR	10-01-00	XXX	
				331-IPC		
		QC18617	MODULE, POWER SECTION	20-00-00	QC18617	Routed
				XXX	N	
		QC18617	MODULE, DRIVEN COMPRESSOR	25-00-00	QC18617	
				18-000	F	
		QC18617	MODULE, GEARBOX	26-01-00	QC18617	
				01-000	A	
		QC18617	ASSEMBLY, COOLING FAN	52-01-00	QC18617	
				03-000	5650 C	
		QC18617	ASSEMBLY, TURBINE SCAVENGE PUMP	90-05-01	XXX	
				55-010	5578 S	
		QC18617	ASSEMBLY, LUBE OIL PUMP	90-01-01	XXX	
				41-000	5724 P	

I QC18617 (3) Check Inspection and Condition Sheet for completion

1 Approving National Aviation Authority/Country FAA/United States	2.	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 314961107
4 Organization Name and Address Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM			5. Work Order/Contract/Invoice Number S9710178620

6 Item	7 Description.	8 Part Number	9. Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	FAN ASSEMBLY	3616959-6	N/A	1	P-2098	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-52-37, Rev. 4, dated 11/30/2010

UAL 60-49-20-00-AR03

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14. Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) NONGNOOCH MERCER	23 Date (m/d/y) July 30, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2.	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003521904Y15 314961107

4 Organization Name and Address		5 Work Order/Contract/Invoice Number
Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	Repair Station ZN3R030M	N/A 314957075 Page 1 of 1

6. Item	7 Description	8. Part Number	9. Eligibility*	10 Quantity	11 Serial / Batch Number:	12. Status / Work.
001	FAN ASSEMBLY	3616959-6	N/A	1	P-2098	OVERHAULED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:

CMM 49-52-37 Rev 4, NOV/30/2010

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER EASA 145 4136

14. Certifies the items identified above were manufactured in conformity to		19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No **ZN3R030M**
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed) **Andrew Kaminski**	23 Date (m d y) **JUN 21 2013**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country: FAA/United States	2.	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 315160422-001
4 Organization Name and Address Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM			5. Work Order/Contract/Invoice Number S9708178620

6 Item	7 Description	8 Part Number	9. Eligibility *	10 Quantity	11. Serial/Batch No.:	12. Status/Work.
001	PUMP ASSEMBLY LUBE	3880190-10	N/A	1	A4133	Inspected

13. Remarks

Return to service. Items provided by the customer have been serviced in accordance with 49-23-49 , Rev 36, dated 03/31/2011.

UAL 60-49-20-00/AR03

INSPECTED IN OVERHAULED CONDITION. REF FORM 8130, TRACKING NUMBER 315160422

FOR EASA CUSTOMERS ONLY: THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136.

14. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature:	16 Approval/Authorization No .	20 Authorized Signature Terry E Coulter (164)	21 Approval/Certificate No . ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) TERRY E COULTER	23 Date (m/d/y) July 26, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2.	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003554157Y15 315160422

4 Organization Name and Address.	Repair Station	5 Work Order/Contract/Invoice Number
Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	ZN3R030M	N/A 315119124 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility*	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	PUMP ASSEMBLY LUBE	3880190-10	N/A	1	A4133	OVERHAULED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH.
CMM 49-91-41 Rev 11, NOV/01/2004

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER EASA 145 4136

14. Certifies the items identified above were manufactured in conformity to	19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of federal Regulations, part 43 and in respect to that work, the items are approved for return to service.	
15 Authorized Signature / 16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No **ZN3R030M**
17 Name (Typed or Printed) / 18 Date (m d y)	22 Name (Typed or Printed) **Andrew Kaminski**	23 Date (m d y) **JUL 06 2013**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1 Approving National Aviation Authority/Country: FAA/UNITED STATES	2 **AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number: 118862

4. Organization Name and Address: **Repair Station# OA9R240X** **AERO TECHNOLOGIES, LLC.** **2200 NW 84th Ave., Miami, Florida 33122, Fax 305/436-6064, 305/436-5464**	5. Work Order/Contract/Invoice Number **118862 / S9826317939**

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	SHUTOFF VALVE	3616848-2	N/A	1	0951	REPAIRED

13. Remarks: **Work order # 118862 describing actual work performed is attached.**
Work performed has been completed IAW FAA approved data.
The Repair performed was accomplished IAW UA CMM AC-60-49-63-01 and authorized supplemental documents therein.
JD REVISION DATE 02/15/2010
Aero Technologies has verified that there are no outstanding and/or existing AD's on this unit.

Certifies that the work specified in block 12/13 was carried out in accordance with EASA PART 145 and with respect to that work the aircraft component is considered ready for release to service under EASA Approval Certificate Number 145.4199 and FAR PART 145 Air Agency Certificate number OA9R240X

14. Certifies the items identified above were manufactured in conformity to: [X] Approved design data and are in condition for safe operation. [ ] Non-approved design data specified in Block 13.	19. [X] 14 CFR 43.9 Return to Service [X] Other regulation specified in Block 13. Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.	
15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:
17. Name (Typed or Printed)	18. Date (m/d/y):	22. Name: (Typed or Printed) **LUIS ORAMAS**
		21. Approval/Certificate No.: **OA9R240X**
		23. Date (m/d/y): **Apr/23/2013**

User/Installer Responsibilities

It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an Airworthiness Authority different than the Airworthiness Authority of the country specified in block 1, it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the Airworthiness Authority of the country specified in block 1.

Statements in block 14 and 19 do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with national regulations by the user/installer before the aircraft may be flown.

1 Approving National Aviation Authority/Country	2.	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003559303Y15 315129512

4 Organization Name and Address		5 Work Order/Contract/Invoice Number
Honeywell International Inc 1 Cliff Garrett Drive Anniston AL 36201	Repair Station ZX4R716M	S9887822051 315129511 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	VALVE, SURGE CONTROL	979806-12	N/A	1	P-297C	REPAIRED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH
CMM 49-53-67 Rev 12, AUG/30/2002
CI AC-60-49-53-05-JD, OCT/02/2008
CI UAL RAS 49-53-67A-001, JAN/25/2013

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER EASA 145 4127

14 Certifies the items identified above were manufactured in conformity to		19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No **ZX4R716M**
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed) **Byron Wheatley**	23 Date (m d y) **JUL 09 2013**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003627675Y14 5006548286-3121432-1

4 Organization Name and Address		5 Work Order/Contract/Invoice Number
Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	Production Approval PT1222NM	S9708168620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	DUCT FAN INL NM	3613961-1	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS DUCT FAN INL NM IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to	19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13
☒ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
S Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J. Robinson	**AUG 09 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	UAL24855

4. Organization Name and Address: DA2R761K Honeywell International Inc dba Honeywell LORI - 6930 North Lakewood Avenue - Tulsa, Oklahoma 74117-1804	5. Work Order/Contract/Invoice Number: S9698578620

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
001	OIL COOLER	160126 -2	N/A	1	UA-39	OVERHAULED

13 Remarks

Return to Service

Work order number UAL24855 prescribing the actual work performed is attached The prescribed work was performed in accordance with FAA approved data Pertinent details of the status/work are on file at this repair station under the Work Order Number

Honeywell LORI certifies that the work specified in Block 12 / 13 was carried out in accordance with EASA Part-145 and in respect to that work the component is considered ready for release to service under EASA Part-145 Approval Number 145 4644

CMM 49-94-02 REV 5 DATE 2/20/2006

14. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13.		19. ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.: DA2R761K
17. Name (Typed or Printed):	18. Date (m d y):	22. Name (Typed or Printed): BRYAN J MYERS	23. Date (m d y): Jun/18/2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1 Approving National Aviation Authority/Country FAA/United States	2.	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 306299974
4 Organization Name and Address. Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM			5 Work Order/Contract/Invoice Number S9701448620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	DUCT TEE	3884238-2	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev 36, dated 3/31/2011

UAL 60-49-20-00-AR03

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14. Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) NONGNOOCH MERCER	23 Date (m/d/y) July 23, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2.	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003373385Y15 306299974

4 Organization Name and Address		5 Work Order/Contract/Invoice Number
Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	Repair Station ZN3R030M	N/A 306299972 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	DUCT TEE	3884238-2	N/A	1	N/A	OVERHAULED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH
IRM 49-23-49 Rev 36, MAR/31/2011

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER EASA 145.4136

14 Certifies the items identified above were manufactured in conformity to:		19 ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No **ZN3R030M**
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed) **Curtis Bebee**	23 Date (m d y) **APR 12 2013**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1. Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1 Approving National Aviation Authority/Country	2.	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003526696Y15 315076006

4 Organization Name and Address		5 Work Order/Contract/Invoice Number
Honeywell International Inc 1 Cliff Garrett Drive Anniston AL 36201	Repair Station ZX4R716M	S9887821429 314485464 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	VALVE OUTL, REGULATING, GEARBOX	3289504-2	N/A	1	46458R	REPAIRED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH
CMM 49-27-13 Rev 6, JAN/31/2003
CI AC-60-49-26-10-JD, JUN/17/2008
CI RAS 49-27-13A-001, NOV/16/2007

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER EASA 145.4127

14 Certifies the items identified above were manufactured in conformity to		19 ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No **ZX4R716M**
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed) **Arland Doss**	23 Date (m d y) **JUN 25 2013**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1. Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2	3. Form Tracking Number
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA FORM 8130-3, AIRWORTHINESS APPROVAL TA**	**121306180**

4 Organization Name and Address

Aerotron Airpower, Inc.
456 Aerotron Parkway
LaGrange, GA 30240

FAA CERTIFICATION # XJ3R973L

Phone 706 812 1700
FAX 706 812 9666

5 Work Order, Contract, or Invoice Number

121306180

Cust Ref S9888312111

6. Item	7 Description	8. Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch Number	12 Status/Work
1	**MODULE, APU FLOW SENSING**	**3885081-1** 265-9157/MR49115-40	N/A	1	**SX6607A**	**REPAIRED**

13 Remarks **CMM: 49-51-93 Rev:5 1/15/2008**

A general description of the work performed is in the attached work order document, under the part description listed in block 6,7,8,10 and 11 as applicable. A complete description of work performed is on file at the above referenced organization under the work order and system tracking reference number indicated in block 3 and 5.
Notice: An Airworthiness Directive may apply to the article(s) described hereon. The installer is responsible for ensuring complete compliance with any applicable Airworthiness Directive
Aerotron AirPower, Inc. certifies that the work specified in block 12 was carried out in accordance with EASA 145 and with respect to that work the aircraft component is considered ready for release to *service under EASA acceptance certificate number EASA.145.4067.*

AC-60-49-54-01-JD, DTD 27 OCT 2011 COMPLIED WITH

14. Certifies the items identified above were manufactured in conformity to:

- ☐ Approved design data and are in condition for safe operation
- ☑ Non-approved design data specified in Block 13.

19 ☑ 14 CFR 43 9 Return to Service ☑ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15. Authorized Signature:	16. Approval/Authorization No.:	20 Authorized Signature	21 Approval/Certificate Number
		Timothy Michael Brooks	**XJ3R973L**
17. Name (Typed or Printed):	18. Date (m/d/y):	22 Name (Typed or Printed) **Timothy Brooks**	23 Date (m/d/y) Jun/17/2013

User/Installer Responsibilities

It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft maybe flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003602470Y14 8002739573-10

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	64311790034 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10. Quantity	11 Serial / Batch Number	12 Status / Work
001	VALVE DEOILING SOL	3876166-1	N/A	1	1215028100329	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS VALVE DEOILING SOL IS A SUBCOMPONENT OF A TSO AUTHORIZATION

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Monica Hughes	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Monica Hughes	**JUL 29 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1. Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

UNITED

PSEN446A-1 UNITED AIRLINES ENGINE MAINTENANCE SYSTEM PAGE 1
06/30/13 COA SCHEDULING REPORT TIME. 21 31
COAS FOR ENTIRE ASSEMBLY REASON: REMOVAL REQUESTOR NAME: REMOVAL
ORGANIZATION:

WORK CENTER: 551

SERIAL NBR	ET	MT	NAME	PWR RTG	CUST
62697	V		APU331	200E	UA

ORDER NUMBER
V539

COA NUMBER	COA CAT	MODULE/ FUNC NBR	UNIT SERIAL	UNIT COA STATUS	ISS	COMP	COA TITLE	COMPLETION DATE
A-0004-1	6	A	P209	OPEN	62697	214386	331-200 SPUR FAN GEAR - RPL	ACCOMPLISHED AT MODULE LEVEL 214386

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, POWER SECTION

REV. 4/26/07

NV532	61646	V2000.0
ORDER NO	ENGINE NO	JOB NO

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT

214386	V0002.0	- NON-ROUTINE ACCOUNTABILITY
214386 371TL	V2010.0	49-20-02TURBINE GROUP REMOVAL
214386 371TL	V2011.0	49-20-01COMPRESSOR/COMBUSTOR DISASSEMBLY
214386 371TL	V2020.0	POWER SECTION - CLEANING
214386 371TL	V2041.0	COMPRESSOR/COMBUSTOR ASSEMBLY
214386 371TL	V2042.0	49-24-00 tURBINE GROUP ASSEMBLY
214386 371TL	V2043.0	49-20-02TURBINE GROUP INSTALLATION
	V2043.5	49-20-02TURBINE BEARING REMOVAL & INSTALLATION
		NOTE - INCLUDE 60-49-20-00-00 ICS - POWER SECTION MODULE 'NV' WITH LOG PACKAGE.
214386		

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, POWER SECTION

REV. 4/26/07

NV532	61646	V2000.0
ORDER NO	ENGINE NO	JOB NO

214386

214386

214386

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

ASSEMBLY S/N: P1392 214386

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

SIGNATURE: 214386 DATE: 8/17/13

END JOB V2000.0 REVISED 4/26/07

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-20-02TURBINE GROUP REMOVAL

REV. 11/23/12

NV532	61646	V2010.0
ORDER NO	ENGINE NO	JOB NO

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-20-02.

M 5810 1. REMOVE FLOW DIVIDER/DRAIN VALVE.

M 5810 2. REMOVE EXCITER, IGNITOR PLUG AND THERMOCOUPLES. DISCARD GASKETS.

M 5810 3. REMOVE INSULATION BLANKETS.

M 5810 4. REMOVE EXHAUST HOUSING AND MUFFLER.

M 5810 5. REMOVE FUEL MANIFOLDS. REMOVE FUEL NOZZLES AND SHROUDS. DISCARD GASKETS.

M 5810 6. REMOVE HEATSHIELD AND SCAVENGE PUMP.

M 5810 7. STRETCH TIESHAFT.

M 5810 8. DISASSEMBLE TURBINE BEARING CAPSULE. DISCARD GASKET AND SPRING WASHER. BAG TURBINE BEARING INNER AND OUTER RACE TO PRECLUDE CLEANING.

M 5810 9. REMOVE AND DISASSEMBLE TURBINE GROUP
NOTE - DISCARD USED PISTON SEAL RINGS FROM T1 STATOR AND T1 STATOR SUPPORT.

M 5810 10. IF ENGINE TSLV IS EQUAL TO OR GREATER THAN 3000 HOURS, OR IT HAS EXPERIENCED M.I.S, ROUTE TURBINE SCAVENGE PUMP.

ALL ITEMS ARE PROPERLY SIGNED OFF.

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-20-02TURBINE GROUP REMOVAL

REV. 11/23/12

NV532	61646	V2010.0
ORDER NO	ENGINE NO	JOB NO

END JOB V2010.0 REVISED 11/23/12

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-20-01COMPRESSOR/COMBUSTOR DISASSEMBLY

REV. 11/22/85

NV532	61646	V2011.0
ORDER NO	ENGINE NO	JOB NO

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-20-01.

M 5810 1. REMOVE COMBUSTOR.

M 5810 2. REMOVE INLET HOUSING.

M 5810 3. DISASSEMBLE FIRST STAGE COMPRESSOR.

M 5810 4. DISASSEMBLE SECOND STAGE COMPRESSOR.

M 5810 5. DISASSEMBLE COMPRESSOR HOUSING.

M 5810 6. DISASSEMBLE INLET HOUSING.

M 5810 7. DISASSEMBLE BEARING INLET HOUSING.

371TL L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-20-01COMPRESSOR/COMBUSTOR DISASSEMBLY

REV. 11/22/85

NV532	61646	V2011.0
ORDER NO.	ENGINE NO	JOB NO

END JOB V2011.0 REVISED 11/22/85

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 POWER SECTION - CLEANING

REV. 7/2/12

NV532	61646	V2020.0
ORDER NO.	ENGINE NO	JOB NO

1. U 7925 UTILITY MECHANIC (U) CLEAN POWER SECTION PARTS PER GN 4-0-3-20 PROCESS 01 (SOLVENT CLEAN), AND/OR GN 4-0-3-20 PROCESS 2C.

2. U 7925 UTILITY MECHANIC (U) CLEAN PRIMARY FUEL NOZZLES (6 EA.) P/N 3830057-7 AND SECONDARY FUEL NOZZLES (6 EA.) P/N 3830057-6, CLEAN AND PURGE FUEL NOZZLES PER GN 4-0-3-20 PROCESS 01 (WATER CLEAN), AND/OR GN 4-0-3-20 PROCESS 2C.

3. U 7925 UTILITY MECHANIC(U) CLEAN PRIMARY AND SECONDARY FUEL MANIFOLD PER GN4-0-3-20 PROCESS 01 (WATER CLEAN) AND / OR GN4-0-3-20 PROCESS 2C.

4. U 7925 FUEL NOZZLES AND MANIFOLDS HAVE BEEN PURGED AND CLEANED AND IS SAFE FOR NON-HAZMAT SHIPPING. MAKE A COPY OF JOB CARD V2020.0, AND ATTACH TO NOZZLE SET AND MANIFOLDS FOR SHIPPING.

5. U 7925 UTILITY MECHANIC (U) PLASTIC PELLET BLAST THE THE FOLLOWING PARTS PER GN 4-0-0-6 PROCESS Q-09.

   A. COMBUSTION CHAMBER.

   B. COMBUSTION CHAMBER CASE.

   C. 1ST STAGE TURBINE STATOR SUPPORT.

   D. 1ST STAGE TURBINE STATOR ASSEMBLY.

   E. 1ST STAGE TURBINE SHROUD.

   F. 1ST STAGE TURBINE WHEEL ASSEMBLY.

   G. 2ND STAGE TURBINE STATOR ASSEMBLY.

   H. 2ND STAGE TURBINE STATOR SUPPORT.

   I. 2ND STAGE TURBINE WHEEL ASSEMBLY.

551

371TL L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 POWER SECTION - CLEANING

REV. 7/2/12

NV532	61646	V2020.0
ORDER NO.	ENGINE NO.	JOB NO

J. 3RD STAGE TURBINE STATOR ASSEMBLY.

K. 3RD STAGE TURBINE WHEEL ASSEMBLY.

L. ROTOR SEAL CURVIC COUPLING.

M. HEAT SHIELD.

N. TIE SHAFT (INSIDE, SPLINED INSERT).

O. TURBINE SCAVENGE PUMPQUILL SHAFT.

6. U A 7925 UTILITY MECHANIC (U) HEAVY DUTY CAUSTIC CLEAN - NO PHOSPHORIC ACID THE FOLLOWING PARTS PER GN 4-0-3-20 PROCESS 2A: 7925

A. COMPRESSOR COUPLING STUB-SHAFT.

B. SHIELD-OIL TUBES.

C. FUEL NOZZLE SHROUDS.

D. GEAR SHAFT - (TURBINE PUMP QUILLSHAFT).

E. TURBINE OIL TUBES.

F. OIL JETS AND SPACERS.

G. TURBINE BEARING SUPPORT.

H. CURVIC COUPLING SHAFT - (TURBINE END).

I. T-BOLTS AND BEARING RETAINER.

J. TAIL CONE-SPACERS PLUS BOLTS.

K. ALL METAL CLAMPS.

END JOB V2020.0 REVISED 7/2/12

H6 Not able to accomplish 7925
7925 2A Not on this floor 7925

*Not all 7925

371TL L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COMPRESSOR/COMBUSTOR ASSEMBLY

REV. 11/23/12

NV532	61646	V2041.0
ORDER NO	ENGINE NO	JOB NO

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-20-01.

M 5810 1. INSTALL LABYRINTH SEAL ON COUPLING SHAFT.

M 5810 2. ASSEMBLE BEARING INLET HOUSING.

M 5810 3. ASSEMBLE SHROUD AND INLET HOUSING ASSEMBLY.

M 5810 4. DETERMINE FIRST STAGE COMPRESSOR ZERO FACE CLEARANCE DIMENSION.

RECORD DIMENSION A 0.895

M 5810 5. INSTALL BEARING INLET HOUSING ASSEMBLY.

371TL

L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

331-200 COMPRESSOR/COMBUSTOR ASSEMBLY

REV. 11/23/12

NV532	61646	V2041.0
ORDER NO.	ENGINE NO	JOB NO

371TL LM 5810 6. DETERMINE SHIM REQUIREMENTS FOR SHROUD AND INLET HOUSING.

0.895 DIMENSION A (FROM ABOVE)

- 0 787 DIMENSION B

= 0.108 INCH

- 0.041 INCH

= 0067 + OR - .001 INCH, REQUIRED SHIMS

****

* 0.067 REQUIRED SHIMS *
* -.067 ACTUAL SHIMS USED *
* =.0 INCH *
* + .041 INCH *
* =.041 CALCULATED C1 IMPELLER CLEARANCE *

****

M 5810 7. ASSEMBLE COMPRESSOR HOUSING.

M 5810 8. DETERMINE SECOND STAGE COMPRESSOR ZERO FACE CLEARANCE DIMENSION.

RECORD DIMENSION C 1.860

_____L ALL ITEMS ARE PROPERLY SIGNED OFF.

331-200 COMPRESSOR/COMBUSTOR ASSEMBLY

REV. 11/23/12

NV532	61646	V2041.0
ORDER NO	ENGINE NO	JOB NO.

371TL

_____LM 5810 9. DETERMINE SHIM REQUIREMENTS FOR INLET HOUSING AND COMPRESSOR HOUSING P/N 3826138-3 BY USING FORMULA BELOW:

1.860 DIMENSION C (FROM ABOVE)

- 1.745 DIMENSION D

= 0.115 INCH

- 0.040 INCH

= 0.075 + OR - .001 INCH, REQUIRED SHIMS

****

* 0.075 REQUIRED SHIMS *

* -.075 ACTUAL SHIMS USED *

* = 0 INCH *

* + .040 INCH *

* = .040 CALCULATED C2 IMPELLER CLEARANCE *

****

M 5810 10. INSTALL COMPRESSOR HOUSING ON MAINTENANCE STAND.

M 5810 11. ASSEMBLE COMPRESSOR AND DIFFUSER ASSEMBLY.

M 5810 12. INSTALL INLET HOUSING ASSEMBLY.

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COMPRESSOR/COMBUSTOR ASSEMBLY

REV. 11/23/12

NV532	61646	V2041.0
ORDER NO	ENGINE NO	JOB NO

M 5810 13. INSTALL COMBUSTION CHAMBER AND COMBUSTION CHAMBER CASE.

-----CONTINUOUS AIRWORTHINESS ITEM -----
CHECK COMBUSTOR INSTALLATION.

END JOB V2041.0 REVISED 11/23/12

371TL
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551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-24-00 tURBINE GROUP ASSEMBLY

REV. 7/11/12

NV532	61646	V2042.0
ORDER NO.	ENGINE NO	JOB NO

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-24-00.

371TL LM 5810 1. MARK FIRST, SECOND, AND THIRD STAGE TURBINE STATORS FOR ALIGNMENT DURING INSTALLATION. REFERENCE SHOP PROOCEDURE 49□24□00, PAGE 703, ITEM D, NOTE 1. INSTALL NEW REPLACEMENT SEAL RINGS.

M 5810 2. MEASURE FOR T1 SHROUD SHIMS, DIMENSIONS D.

0. .011 "GAP" DIMENSION E
(AVERAGE OF BOLT HOLE LOCATIONS)

+ 0.025

= .0036 DIMENSION D
(+/□ 0.001 REQ'D T1 SHROUD SHIMS)

OR

_____ DIMENSION A

□ _____ DIMENSION B

= _____ DIMENSION C

0.025

□ _____ DIMENSION C

= _____ DIMENSION D
(+/□ 0.001 REQ'D T1 SHROUD SHIMS)

M 5810 3. MEASURE FOR T2 STATOR SUPPORT SHIMS.

RECORD DIMENSION F .027

CAUTION □ MEASURE FROM AREA AROUND BOLT HOLE FLANGE SURFACE.

551

371TL L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-24-00 tURBINE GROUP ASSEMBLY

REV. 7/11/12

NV532	61646	V2042.0
ORDER NO	ENGINE NO	JOB NO

M 5810 4. ASSEMBLE TURBINE GROUP.

.036 DIMENSION D (ABOVE + OR □ 0.001 INCH)
(ACTUAL T1 SHROUD SHIMS USED)

.027 DIMENSION F (ABOVE + OR □ 0.001 INCH)
(ACTUAL T2 STATOR SUPPORT SHIMS USED)

L 371TL A. ENSURE T1 TURBINE WHEEL IS INSTALLED WITH THE THICK EDGE OF BLADES (LEADING EDGE) ARE FACING FORWARD.

END JOB V2042.0 REVISED 7/11/12

371TL
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551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-20-02TURBINE GROUP INSTALLATION

REV. 2/8/13

NV532	61646	V2043.0
ORDER NO	ENGINE NO	JOB NO

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-20-02.

ASSIGNED ENGINER ORDER NUMBER V539 214386

M 5810 1. MEASURE FOR TURBINE GROUP SHIMS.

.102 DIMENSION H

.021 DIMENSION G

M 5810 2. ASSEMBLE TURBINE GROUP AND COMPONENTS TO DETERMINE SHIM REQUIREMENTS.

371TL

LM 5810 3. ----- CONTINUOUS AIRWORTHINESS ITEM -----TURBINE TIESHAFT INSTALLATION - CHECK AND VERIFY STRETCH MEASUREMENT.

.763 DIMENSION C (BEFORE STRETCH)

2.471 DIMENSION A

2.424 DIMENSION B

=.047 STRETCH DIMENSION (LIMIT = 0.047 TO 0.050 INCH)

.828 DIMENSION C (AFTER STRETCH)

551

371TL L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-20-02TURBINE GROUP INSTALLATION

REV. 2/8/13

NV532	61646	V2043.0
ORDER NO.	ENGINE NO	JOB NO

M 5810 4. VERIFY TURBINE GROUP SHIM THICKNESS.

3.717 DIMENSION J

- .102 DIMENSION H (PREVIOUSLY RECORDED)

=3.615

-2.772 TOOLING DIMENSION

= .843 BUILD DIMENSION (0.840 TO 0.843 INCH)

M 5810 5. INSTALL TURBINE BEARING SUPPORT.

.021 DIMENSION G (PREVIOUSLY RECORDED)

REQ'D. SHIMS (+ OR - 0.002 INCH)

.828 DIMENSION C (AFTER STRETCH)

514302

37171
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ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

M 5810 6. DETERMINE SHIM REQUIRED FOR TURBINE BEARING SUPPORT.

4.759 DIMENSION K

- 3.603 DIMENSION L

= 1.156 DIMENSION M

****

2.297 INCH

- 1.156 DIMENSION M (ABOVE)

= 1.141

- 1.027 DIMENSION N

= 0.114 THICKNESS OF REQ'D SHIMS (+ OR - 0.001 INCH)

M 5810 7. ASSEMBLE COMPONENTS ONTO COUPLING.

NOTE - USE NEW T-BOLTS FOR ASSEMBLY OF BEARING CAPSULE.

M 5810 8. INSTALL TURBINE BEARING SUPPORT.

.828 DIMENSION C (AFTER STRETCH)

VERIFY SHAFT STRETCH IS WITHIN LIMITS.

M 5810 9. INSTALL QUILLSHAFT AND TURBINE SCAVENGE PUMP.

M 5810 10. RECORD SCAVENGE PUMP # SV 07590-3L5159588

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-20-02TURBINE GROUP INSTALLATION

REV. 2/8/13

NV532	61646	V2043.0
ORDER NO	ENGINE NO.	JOB NO

M 5810 11. INSTALL HEATSHIELD.

M 5810 12. INSTALL PRIMARY AND SECONDARY NOZZLE AND MANIFOLD ASSEMBLIES.

----- CONTINUOUS AIRWORTHINESS ITEM ----->CHECK BOLT AND "B" NUT TORQUE OF PRIMARY AND SECONDARY NOZZLE AND MANIFOLD ASSEMBLIES.

SAFETY PRIMARY AND SECONDARY NOZZLE ASSEMBLIES.

----- CONTINUOUS AIRWORTHINESS ITEM -----CHECK SAFETY OF PRIMARY AND SECONDARY NOZZLE ASSEMBLIES.

M 5810 13. INSTALL EXHAUST MUFFLER AND HOUSING.

M 5810 14. INSTALL INSULATION BLANKETS.

M 5810 15. INSTALL TADPOLE SEAL.

M 5810 16. INSTALL EXCITER, IGNITOR PLUG AND THERMOCOUPLES.

M 5810 17. INSTALL FLOW DIVIDER AND DRAIN VALVE.

END JOB V2043.0 REVISED 2/8/13

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ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

UNITED AIRLINES

GTCP331-200ER APU Engine Manual - Inspection and Condition Sheet

POWER SECTION MODULE
60-49-20-00-00 ICS

DISTRIBUTION 551

ENGINE S/N 616646 VADE NO. _____ CUSTOMER. UA

MODULE ORDER NO NV532 MODULE S/N P1392 MODULE N

REASON FOR REMOVAL Auto shutdown

COMMENTS: _____

DISPOSITION CODES:		
	E =	PART MEETS DETAIL PART EID REQUIREMENTS (ZERO TIME SINCE DETAIL PART INSPECTION)
	A =	EXPOSED AREA OF PART MEETS VISUAL REQUIREMENTS OF APPROPRIATE EID (CONTINUED TIME SINCE DETAIL PARTS INSPECTION)
	C =	PART ROUTED OR CORRECTIVE ACTION TAKEN
	ATA# S/L-SEQ	EID NUMBER [49 precedes numbers shown (49) 31 -XX] SECTION / LIST - SEQUENCE NUMBER
	OFF LOG FUNC#	STAMP TO INDICATE PART OFF-LOG FROM MODULE FUNCTION NUMBER

NOTE Sign off appropriate disposition code More than one code may be signed.

NOTE Indicate condition of unserviceable parts regardless of disposition

NOTE To clear parts not exposed, draw a line through the complete entry and stamp in the left margin

NOTE If part is routed on an R&R Tag, it is mandatory to stamp the applicable "E" or "A" Block and write "R&R" in the "C" Block Then complete the appropriate computer transaction

NOTE Parts having no specific EID will be visually inspected per 60-49-00-00 Book "0", Introduction, Section 4, A4

Module Inspection Guide

I _____ (1) Module inspected and found serviceable per EID 60-49-20-00-00 [ZERO Time Since Module Inspection (TSMI)] No parts removed from module No additional sign-off required

I QC18617 (2) Module partially or completely disassembled Removed parts and / or exposed areas inspected per appropriate EID (ZERO Time Since Detail Parts Inspection - TSDPI)

Control Date 20070329

ENGINE S/N: G6646 ORDER NO NV532

E	A	C	ITEM NOMENCLATURE	ATA # / S/L SEQ	OFFLOG / FUNC #	ROUTING / CONDITION
		QC18617	BEARING, THRUST	20-01-01	QC18617	scrap
				35-020	5719	
		QC18617	BEARING, ROLLER	20-01-01	QC18617	↓
				35-040	5720	
		QC18617	CARBON SEAL	20-02-00	XXX	
				35-010	5718	
		QC75564	HOUSING, INLET	22-01-00	XXX	
				20-100	2240	PRELIM 271598
QC18617			RETAINER, BRG	22-02-00	XXX	
				12-150	5672	
QC18617			INSERT, SOUND ATTENUATOR	22-03-00	XXX	
				16-010	5676	
		QC18617	HOUSING ASSY, BEARING	22-04-00	XXX	
				16-015	0999	worn OSV
		QC75564	SEAL, COUPLING SHAFT	22-05-00	XXX	
				11-110	2242	W/SHAFT
		QC75564	SHAFT, ENGINE COMPRESSOR	22-06-00	XXX	
				11-100	0998	PRELIM 312063
		QC75564	TIE SHAFT	22-07-00	XXX	
				11-090	1012	PRELIM 230783
QC18617		~~QC18617~~	INLET BELL	22-08-00	XXX	
				16-130	2278	ok
		QC18617	SHROUD, COMPRESSOR	22-09-00	XXX	
				16-140	2277	worn OSV
		QC75564	IMPELLER, C1	22-10-00	QC75564	
				11-030	0993	PRELIM 278304
		QC18617	DIFFUSER ASSY, C1	22-11-00	XXX	
				16-120	0994	worn OSV
		QC18617	HOUSING ASSY, COMPRESSOR	22-12-00	XXX	
				16-080	2252	worn OSV
		QC75564	IMPELLER, C2	22-13-00	QC75564	
				11-045	0995	PRELIM 312271
		QC18617	DIFFUSER, C2	22-14-00	XXX	
				16-100	0996	worn OSV
		QC18617	DESWIRL ASSY	22-15-00	XXX	
				16-020	0997	worn OSV

ENGINE S/N 616446 ORDER NO. NV532

E	A	C	ITEM NOMENCLATURE	ATA # S/L SEQ	OFFLOG FUNC #	ROUTING / CONDITION
		QC18617	LINER ASSY, COMB TRANSITION	22-16-00 16-030	XXX 1000	crk OSV
		QC18617	LABYRINTH SEAL	22-17-00 16-040	XXX 2261	worn OSV
QC18617			MOUNT, AFT 2EA	22-20-00 16-420	XXX 2257	
QC18617			SUPPORT, INLET HOUSING	22-20-00 16-400	XXX 5679	
		QC18617	ROTOR, SEAL	22-22-00 35-060	XXX 2256	OSV
QC18617			BRACKET, IGNITION UNIT	22-99-00 16-440	XXX 13350	
QC18617			BRACKET, FLOW DIVIDER	22-99-00 16-450	XXX 13351	
QC18617			HEATSHIELD, MOUNT	22-99-00 16-430	XXX 13335	
QC18617			HEATSHIELD, MOUNT 2 EA	22-99-00 16-460	XXX 13352	
QC18617			HEATSHIELD, FLOW DIVIDER	22-99-00 16-470	XXX 13353	
QC18617			HEATSHIELD, IGNITION UNIT	22-99-00 16-480	XXX 13354	
		QC18617	CHAMBER, COMBUSTION	23-01-00 20-010	XXX QC18617 1002	crk OSV
QC18617			RING, CONTAINMENT	23-02-00 20-030	XXX 2258	
		QC18617	CASE, COMBUSTION CHAMBER	23-04-00 20-020	 1001	552 303649
QC18617			RING, SPLIT	23-05-00 20-090	XXX 2259	
QC18617			COUPLING & SEAL	23-06-00 11-050	XXX 1097	
QC18617		QC18617	SHROUD, FUEL NOZZLE 12 EA	23-32-00 20-540	XXX 2234	4ea OSV
QC18617			RETAINER, FUEL NOZZLE 12 EA	23-33-00 20-550	XXX 14520	

ENGINE S/N 616460 ORDER NO NV532

E	A	C	ITEM NOMENCLATURE	ATA # / S/L SEQ	OFFLOG / FUNC #	ROUTING / CONDITION
		QC18617	SUPPORT, T1 STATOR	24-01-00 / 30-020	XXX / 2260	crk osv
		QC18617	PISTON RING	BOOK 0 / 31-220	XXX / 13363	SCRAP 100%
		QC75564	STATOR ASSY, T1	24-02-00 / 31-010	XXX / 2286	DISSY 651604
		QC75564	STATOR VANE, T1	24-02-01 / 31-011	QC75564 / 1005	ROUTED
		QC18617	SEAL, T1 RING	BOOK 0 / 31-013	XXX / 13362	SCRAP 100%
		QC75564	WHEEL ASSY, T1	24-03-00 / 30-031	XXX / 5710	DISSY
		QC75564	DISK, T1	24-03-01 / 30-030	QC75564 / 1004	PRELIM 609739
		QC75564	BLADES, T1	24-03-02 / 32-170	XXX / 1003	ROUTED
		QC18617	SHROUD, T1	24-04-00 / 31-080	XXX / 2262	crk osv
		QC75564	STATOR ASSY, T2	24-05-00 / 31-060	XXX / 2281	DISSY 305769
		QC75564	STATOR VANE, T2	24-05-01 / 31-061	XXX / 1008	ROUTED
		QC75564	LABRYNTH SEAL, T2	24-05-03 / 31-063	XXX / 2287	ROUTED
		QC18617	SUPPORT, T2 STATOR	24-06-00 / 31-050	XXX / 2263	crk osv
		QC75564	WHEEL ASSY, T2	24-07-00 / 30-041	XXX / 5711	DISSY
		QC75564	DISK, T2	24-07-01 / 30-040	QC75564 / 1007	PRELIM 633972
		QC75564	BLADES, T2	24-07-02 / 32-100	XXX / 1006	ROUTED
		QC75564	STATOR ASSY, T3	24-08-00 / 31-070	XXX / 2288	DISSY 243866
		QC75564	STATOR VANE, T3	24-08-01 / 31-071	XXX / 1010	ROUTED

ENGINE S/N 616646 ORDER NO MV532

E	A	C	ITEM NOMENCLATURE	ATA # / S/L SEQ	OFFLOG / FUNC #	ROUTING / CONDITION
		QC75564	LABRYNITH SEAL, T3	24-08-03	XXX	
				31-073	2283	ROUTED
		QC75564	WHEEL ASSY, T3	24-09-00	QC75564	
				30-061	1009	PRELIM 303807
QC18617			SUPPORT, TURBINE BEARING	24-10-00	XXX	
				20-025	1011	
		QC18617	COUPLING ROTOR	24-11-00	XXX	
				30-100	1091	WORN OSV
QC18617			SUPPORT, BEARING	24-13-00	XXX	
				12-020	5665	
		QC18617	TENSION WASHER	BOOK 0	XXX	SCRAP 100%
				12-030	5666	
		QC18617	HEATSHIELD	24-14-00	XXX	
				20-120	2250	552 303647
		QC18617	MUFFLER, EXHAUST	24-16-00	XXX	
				31-210	1013	cracked out OSV
QC18617			HOUSING, MUFFLER	24-17-00	XXX	
				31-200	2253	
		QC18617	GASKET, CURVIC COUPLING 2 EA	24-34-00	XXX	
				30-090	5714	SCRAP
		QC18617	GASKET, CURVIC COUPLING	24-34-00	XXX	
				30-070	5712	
		QC18617	GASKET, CURVIC COUPLING	24-34-00	XXX	
				30-080	5713	
		QC18617	GASKET, CURVIC COUPLING	24-34-00	XXX	
				30-110	5715	
QC18617			NUT	24-35-00	XXX	
				12-080	5671	
QC18617			RETAINER, BEARING	24-37-00	XXX	
				35-050	5721	
		QC18617	SEAL ASSY, CARBON TURBINE	24-42-00	XXX	
				12-010	2264	MISSING
QC18617			CONE, TURBINE TAIL	24-43-00	XXX	
				55-100	5787	
QC18617			BRACKET, DRAIN	27-04-00	XXX	
				50-220	2270	

ENGINE S/N 616446 ORDER NO. NV532

E	A	C	ITEM NOMENCLATURE	ATA # S/L SEQ	OFFLOG FUNC #	ROUTING / CONDITION
QC18617		QC18617	SHIELD ASSY, OIL INLET AND OUTLET	27-05-00 50-400	XXX 5766	1ea OSV
		QC18617	TUBE, OIL INLET	27-05-01 60-630	XXX 14939	worn OSV
		QC18617	TUBE, OIL OUTLET	27-05-01 50-640	XXX 14940	" "
QC18617			TUBE, VENT	27-06-00 50-430	XXX 5765	
		QC18617	BLANKET, INSULATION	27-10-00 50-400	XXX 5762	crk OSV
QC18617			BLANKET, INSULATION	27-10-00 50-410	XXX 5763	
QC18617			BLANKET, INSULATION	27-10-00 50-420	XXX 5764	
		QC18617	BLANKET, INSULATION	27-10-00 50-460	XXX 5768	crk OSV
		QC18617	BLANKET, INSULATION	27-10-00 50-450	XXX 5767	" "
QC18617			BLANKET, INSULATION	27-10-00 50-470	XXX 5769	
QC18617			BLANKET, INSULATION	27-10-00 50-490	XXX 5771	
QC18617			BLANKET, INSULATION	27-10-00 50-480	XXX 5770	
QC18617			MANIFOLD, FUEL PRIMARY	10-01-00 20-520	XXX 5699	
QC18617			MANIFOLD, FUEL SECONDARY	10-01-00 20-530	XXX 5700	
		QC18617	FUEL NOZZLE, PRIMARY	10-01-00 20-499	QC18617 1014	Rowld OSV
		QC18617	FUEL NOZZLE, SECONDARY	10-01-00 20-509	QC18617 1015	
		QC18617	TURBINE SCAVENGE PUMP	90-05-01 55-010	XXX 5778	

I QC18617 (3) Check Inspection and Condition Sheet for completion

1 Approving National Aviation Authority/Country FAA/United States	2.	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 314369868-001

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9691388620

6 Item	7 Description	8 Part Number	9 Eligibility	10 Quantity	11 Serial/Batch No	12 Status/Work
001	WHEEL ASSY, TURBINE, AXIAL, 3RD STG	3840022-4	N/A	1	070134502190	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev 36, dated 3/31/2011

UAL 60-49-20-00/AR03

INSPECTED IN OVERHAULED CONDITION, REF FORM 8130 TRACKING NUMBER 314369868

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature Terry E. Coulter 164	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) TERRY E COULTER	23 Date (m/d/y) June 21, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does *not* automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential *that the* user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases *aircraft maintenance* records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003407655Y15 314369868

4 Organization Name and Address		5 Work Order/Contract/Invoice Number
Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	Repair Station ZN3R030M	N/A 314350298 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	WHEEL ASSY, TURBINE, AXIAL, 3RD STG	3840022-4	N/A	1	070134502190	OVERHAULED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH
IRM 49-23-49 Rev 36, MAR/31/2011
ORI P30546 Rev B, JUN/25/2010
ORI P32166 Rev NC, APR/23/2008

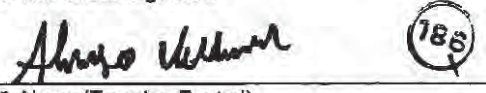
Cafe Report and LLC Attached

Additional Information

TSN 6780
CSN 11789

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER EASA 145.4136

14 Certifies the items identified above were manufactured in conformity to		19 ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
			**ZN3R030M**
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed) **J Alfonso Velderrain**	23 Date (m d y) **APR 29 2013**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1. Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

Honeywell

ULTIMATE LIFE PART CARD

Part Name **3RD. STAGE TURBINE WHEEL.ASSY.** Disk Part Number N/A

Serial Number 070134502190 Assy Part Number 3840022-4

DATE INTALLED	DATE REMOVED	ENGINE SERIAL NUMBER	AIRCRAFT SERIAL NUMBER	TIME ON PART THIS INSTALLATION CYCLES	TIME ON PART THIS INSTALLATION HOURS	TOTAL TIME ON PART CYCLES	TOTAL TIME ON PART HOURS	REMARKS
UNK	[redacted]	UNK		0	0 0	0	0.0	
[redacted]	03/27/13	UNK				11789	6780	HONEYWELL ZN3R030M
8/14/13	[redacted]	62697		/	/	11789	6780	[redacted]
[redacted]								
	[redacted]							
[redacted]								
	[redacted]							
[redacted]								
	[redacted]							
[redacted]								
	[redacted]							
[redacted]								
	[redacted]							

AX-6167-3

ULTIMATE LIFE PART REPAIR RECORD

DATE	MAINTENANCE PERFORMED	AUTHORIZED SIGNATURE
03/27/13	6780 HOURS 11789 CYCLES THIS LIFE LIMIT CARD RECONSTRUCTED	HONEYWELL ZN3R030M
	FROM INFORMATION SUPPLIED BY THE CUSTOMER ALL INFORMATION	
	IS ON FILE AT THE REPAIR STATION UNDER SERVICE ORDER 5006192515	
13	TSN 6780 CSN 11789 OVERHAULED IAW ICM 49-28-49	Honeywell ZN3R030M
29	REV 36, ORI P30546 REV. 6, ORI P32466 REV NC	
4	NOTIFICATION 3143698468	A Vollrath (186)

1 Approving National Aviation Authority/Country FAA/United States	2.	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 314306720
4 Organization Name and Address Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM			5 Work Order/Contract/Invoice Number S9697008620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	COMPRESSOR ROTOR, CENTRIFUGAL, SECOND ST	3822068-1	N/A	1	030322900940	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev 36, dated 3/31/2011

UAL 60-49-20-00-AR03

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) NONGNOOCH MERCER	23 Date (m/d/y) July 23, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2.	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003548835Y15 314306720

4 Organization Name and Address		5 Work Order/Contract/Invoice Number
Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	Repair Station ZN3R030M	N/A 314181098 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	COMPRESSOR ROTOR, CENTRIFUGAL, SECOND ST	3822068-1	N/A	1	030322900940	OVERHAULED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH
IRM 49-23-49 Rev 36, MAR/31/2011

ORI P31497 Rev D, DEC/10/2009

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to	19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature David Cotey 21 Approval/Certificate No **ZN3R030M**
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed) **David Cotey** 23 Date (m d y) **JUL 03 2013**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

Honeywell

ULTIMATE LIFE PART CARD

Part Name **COMPRESSOR ROTOR** Disk Part Number

Serial Number 030322900940 Assy Part Number 3822068-1

DATE INTALLED	DATE REMOVED	ENGINE SERIAL NUMBER	AIRCRAFT SERIAL NUMBER	TIME ON PART THIS INSTALLATION CYCLES	TIME ON PART THIS INSTALLATION HOURS	TOTAL TIME ON PART CYCLES	TOTAL TIME ON PART HOURS	REMARKS
8/14/13	[redacted]	62697		UNK	UNK	UNK	UNK	
[redacted]				Ø	Ø	UNK	UNK	QC75564
	[redacted]							
[redacted]								
	[redacted]							
[redacted]								
	[redacted]							
[redacted]								
	[redacted]							
[redacted]								
	[redacted]							
[redacted]								
	[redacted]							

AX-6167-3

ULTIMATE LIFE PART REPAIR RECORD

DATE	MAINTENANCE PERFORMED	AUTHORIZED SIGNATURE
7/3/13	OVERHAULED IAW 49-23-49 REV. 36	~~Honeywell~~ ZN3R030M
	ORI P31497 TSN: UNK CSN: UNK	

CERTIFIED TRUE COPY of Document held by Dixie QA

Dixie Document # E62566 Invoice #: B27SWR0 Your P.O. # 2653238002

OMB Control No 2120-0018
09/30/2007

1 Approving National Aviation Authority/Country	2.	3. Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	2013D0673
4. Organization Name and Address: Wencor, LLC – 473 Dividend Drive Peachtree City, GA 30269 U S A. PQ1370NM		5. Work Order/Contract/Invoice Number: I56033 / GM2FAVDPS

6. Item	7. Description.	8. Part Number	9. Eligibility *	10. Quantity	11. Serial/Batch Number	12. Status/Work.
1	BEARING, BALL	3613827-1WE	N/A	12	SEE BELOW	NEW

13. Remarks:

AIRWORTHINESS APPROVAL – For Domestic Shipments Only

For complete eligibility, see www.wencor.com

This part is not a critical component.

Lot/Batch Number MSPF790

Serial Numbers F13-3201, F13-3270, F13-3269, F13-3200, F13-3272, F13-3205, F13-3226, F13-3254, F13-3234, F13-3278, F13-3253, F13-3274

14. Certifies the items identified above were manufactured in conformity to:	19. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13
☑ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13.	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the item is approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
Digitally signed by G. Randall Burton DN: cn=G. Randall Burton, o, ou, email=rburton@wencor.com, c=US Date: 2013.06.27 12:22:51 -04'00'	DARF830583CE	N/A	N/A
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
G Randall Burton	JUN/27/2013	N/A	N/A

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

FAA Form 8130-3 (6-01) *Installer must cross-check eligibility with applicable technical data. NSN 0052-00-012 9005

E62566

Dixie Aerospace A MSP

Dixie Aerospace, LLC

473 Dividend Dr
Peachtree City, GA 30269
Phone (678)490-0140 Fax (770)632-7637
sales@dixieaerospace com

Date 6/28/13
Page 1

PACKING LIST
CERTIFICATE OF CONFORMANCE
NUMBER B27SWR0

PO : Inv

CUSTOMER P O #	SHIP VIA	TERMS	BILL OF LADING NUMBER	WEIGHT	CARTONS	SALES REPRESENTATIVE
26532380027	FE2	N30	00560481590304	7 00	1	Chris Harris

Ship To
UNITED AIRLINES / SFOJE
MAINT OPERATINS CENTER
SAN FRANCISCO INTL AIRPRT
BUILDING 84 DOOR 9
SAN FRANCISCO , CA 94128

Account # UAL201

Bill To
UNITED AIRLINES-ISA
ACCOUNTING DEPARTMENT
PO BOX 4607
HOUSTON , TX 77210
847-700-5228

Ship Line Num	Part Number / Description	Quantity Ordered	Quantity This Shipment	Quantity Backorder	Manufacturer CAGE	Batch Number	Manufacture, Lube, Cure or Expiration Date	Document Control Number
1	3613827-1WE	4	4					
	BEARING, ANNULAR BALL		1		26647	MSPF790	Mfg. 6/01/13	E62566
			1		26647	MSPF790	Mfg 6/01/13	E62566
			1		26647	MSPF790	Mfg 6/01/13	E62566
			1		26647	MSPF790	Mfg 6/01/13	E62566

packlist07/01/01

DIXIE CERTIFIES THAT THE PARTS LISTED ARE NEW (NOT SURPLUS) AND HAVE BEEN MANUFACTURED IN ACCORDANCE WITH APPLICABLE DRAWINGS AND STANDARDS, THAT THESE PARTS MEET THOSE DRAWINGS AND STANDARS REQUIREMENTS

WHILE STORED WITHIN OUR FACILITY PRODUCTS ARE NOT EXPOSED TO MERCURY

Tony Flores

INSPECTOR

IT IS YOUR RESPONSIBILITY TO OBTAIN A VALIDATED EXPORT LICENSE FOR THIS MATERIAL FROM THE DEPARTMENT OF STATE OR THE DEPARTMENT OF COMMERCE IF SO REQUIRED UNDER THE APPLICABLE U S GOVERNMENT EXPORT CONTROL REGULATION THE ABOVE MATERIAL IS NOT TO BE SHIPPED TO ANY COUNTRY THAT HAS AN EMBARGO PLACED ON IT BY THE U S GOVERNMENT

1. PART OR MATERIAL CERTIFICATION FORM

ATA Specification 106

2 Seller's Name	3 Reference #
Dixie Aerospace, LLC	UAL201-B27SWR0

4 Organization	
Dixie Aerospace, LLC Address: 473 Dividend Dr. Peachtree City, GA 30269	Phone # (678)490-0140 Fax # (770)632-7637 SITA/Wire Code ATLDBXD sales@dixieaerospace.com Status Parts Manufacturing Authority Repair Station New Parts Distributor

5a Seller's Contract #	5b Buyer's Contract #
B27SWR0	26532380027

6 Item	7 Description	8 Manufacturer & Part Number	9 Eligibility	10. Qty	11 Serial/Batch Number	12 Status
1	BEARING, ANN	3613827-1WE	See NPD Note	1	E62566 / MSPF790	NEW
2	BEARING, ANN	3613827-1WE	See NPD Note	1	E62566 / MSPF790	NEW
3	BEARING, ANN	3613827-1WE	See NPD Note	1	E62566 / MSPF790	NEW
4	BEARING, ANN	3613827-1WE	See NPD Note	1	E62566 / MSPF790	NEW

13a Remarks

NPD Note: New Part Distribution. Various eligibility.

13b Obtained From	13c Last Certificated Agency
N/A	N/A

14 New Parts/Material Verification	18 Used,Repaired or Overhauled Parts Verification
The following signature attests that the part(s) or Material(s) identified above was (were) manufactured by a FAA Production Approval Holder (PAH), or to an industry or commercial standard	The following signature attests that the documentation specified above or attached is accurate with regard to the item(s) described
15 Signature: Tony Flores	19. Signature: N/A
16 Name: Tony Flores 17 Date: JUN/28/2013	20 Name: N/A 21 Date

NOTICE The above signature binds the seller and the SIGNER to the accuracy of the information provided in the Form Should the information provided in this Form contain inaccuracies of misrepresentations, the signer and the SELLER may be liable for damages and be subject to criminal prosecution under state and federal law

(Revised August 15, 1995)

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	000323088

4. Organization Name and Address	5. Work Order/Contract/Invoice Number:
Honeywell International Inc 111 S 34th Street Phoenix, Arizona 85072 PRODUCTION APPROVAL PT1222NM B/E AEROSPACE CONSUMABLES MANAGEMENT 480 N 54TH STREET, SUITE 8 CHANDLER, AZ 85226	8K2146 001 Page 4 of 7

6 Item.	7 Description.	8. Part Number:	9. Eligibility *	10. Quantity:	11. Serial/Batch Number	12. Status/Work:
001	BEARING	3822099-1	N/A		SN13-162255-06235 SN13-162255-06236 SN13-162255-06237 SN13-162255-06238 SN13-162255-06239 SN13-162255-06240 SN13-162255-06241 SN13-162255-06242	NEW

13. Remarks

AIRWORTHINESS APPROVAL
DIRECT SHIPMENT AUTHORIZATION
Customer P O # 26504620046

This BEARING is a subcomponent of a TSO authorization

14 Certifies the items identified above were manufactured in conformity to:

☒ **Approved design data and are in a condition for safe operation**
☐ **Non-approved design data specified in Block 13.**

19. ☐ **14 CFR 43.9 Return to Service** ☐ **Other regulation specified in Block 13**

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15. Authorized Signature	16 Approval/Authorization No	20. Authorized Signature	21 Approval/Certificate No.
	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y):**	**22. Name (Typed or Printed)**	**23 Date (m d y)**
Syed Hossain	MAY 22 2013		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003457502Y15 314679635

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International Inc Nádražní 400 783 66 HLUBOČKY - MARIÁNSKÉ ÚDOLÍ CZECH REPUBLIC Repair Station MXHY520X	4622285 314642103 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	COMBUSTION CHAMBER, ANNULAR	3830061-5	N/A	1	N/A	OVERHAULED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH
IRM 49-23-49 Rev 36
ORI P34516 Rev D

Traceability Number 3300-4622285 R

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER EASA CZ 145 0034

14 Certifies the items identified above were manufactured in conformity to	19
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
		authority per FAR 145 OP 011/2008	**MXHY520X**
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed) **Petr Balaz**	23 Date (m d y) **MAY 23 2013**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1 it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country FAA/United States	2.	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 314679635-001
4 Organization Name and Address Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034		FAA Certificate # ZN3RO3OM	5 Work Order/Contract/Invoice Number S9687098620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	COMBUSTION CHAMBER, ANNULAR	3830051-5	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49 , Rev 36, dated 3/31/2011

UAL 60-49-20-00/AR03

INSPECTED IN OVERHAULED CONDITION, REF FORM 8130 TRACKING NUMBER 314679635

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature 164	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) TERRY E COULTER	23 Date (m/d/y) June 3, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003471151Y14 5006334755-2997477-8

4 Organization Name and Address	Production Approval		5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9687098620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	STATOR TURB 1STG	3844038-4	N/A	1	13-150323-02331	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS STATOR TURB 1STG IS A SUBCOMPONENT OF A TSO AUTHORIZATION

14 Certifies the items identified above were manufactured in conformity to

- [x] Approved design data and are in a condition for safe operation
- [ ] Non-approved design data specified in Block 13

19 [ ] 14 CFR 43 9 Return to Service [ ] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Stephen J. Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J. Robinson	**MAY 30 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country FAA/United States	2	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 30871639-001
4 Organization Name and Address Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM			5 Work Order/Contract/Invoice Number S9697008620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	NOZZLE ASSY, FUEL	3830057-7	N/A	1	1HA05265	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49 , Rev 36, dated 3/31/2011

UAL 60-49-20-00/AR03

INSPECTED IN OVERHAULED CONDITION, REF. FORM 8130 TRACKING NUMBER 30871639

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature 164	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) TERRY E COULTER	23 Date (m/d/y) July 23, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

OMB Control No 2120-0018
09/30/2007

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1 Approving National Aviation Authority / Country	2	3 Form Tracking Number
FAA / UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG**	00000000000002227128 30871639 Page 1 of 1

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Delavan Inc 811 FOURTH STREET WEST DES MOINES, IA 50265-0100 USA CERTIFICATE #KT2R964K	4889850 3500135723

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch Number	12 Status/Work
01	331-250 NOZZLE ASSY	68009-7 (3830057-7)	N/A	1	SN 1HA05265	OVERHAULED

13 Remarks
Purpose Approval for Return to Service
OVERHAULED in accordance with CMM CMM-49-31-13 Revision 7 Rev Date 09/29/2000

Certifies that the work specified in block 12/13 was carried out in accordance with EASA Part 145 and in respect to that work the component is considered ready for release to service under EASA Part 145 Approval Number EASA 145 4378

14 Certifies the items identified above were manufactured in conformity to:

[ ] Approved design data and are in a condition for safe operation.

[ ] Non-approved design data specified in Block 13.

19

[X] 14 CFR 43 9 Return to Service [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval / Authorization No	20 Authorized Signature	21 Approval / Certificate No
		Sandy Wolfe	KT2R964K
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
		SANDY WOLFE	JUN 18 2013

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

FAA Form 8130-3 (6-01)

* Installer must cross check eligibility with applicable technical data NSN 0052-00-012-9005

Paperwork Reduction Act Statement
An agency may not conduct or sponsor and a person is not required to respond to a collection of information unless it displays a current with this collection of information is 2120-0018 Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at. 800 Independence Ave. SW Washington, DC 20591 Attn Information Collection Clearance Officer ABA-20

1 Approving National Aviation Authority/Country FAA/United States	2.	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 30871667-001
4 Organization Name and Address Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM			5 Work Order/Contract/Invoice Number S9697008620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	NOZZLE ASSY, FUEL	3830057-7	N/A	1	PW1-0629	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49 , Rev· 36, dated 3/31/2011

UAL 60-49-20-00/AR03

INSPECTED IN OVERHAULED CONDITION, REF FORM 8130 TRACKING NUMBER 30871667

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature Terry E Coulter 164	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) TERRY E COULTER	23 Date (m/d/y) July 23, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

(114)

OMB Control No 2120-0018
09/30/2007

1 Approving National Aviation Authority / Country	2	3 Form Tracking Number
FAA / UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG**	00000000000002227177 30871667 Page 1 of 1

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Delavan Inc 811 FOURTH STREET WEST DES MOINES, IA 50265-0100 USA CERTIFICATE #KT2R964K	4889846 3500136437

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch Number	12 Status/Work.
01	331-250 NOZZLE ASSY	68009-7 (3830057-7)	N/A	1	SN PW1-0629	OVERHAULED

13 Remarks
Purpose Approval for Return to Service
OVERHAULED in accordance with CMM CMM-49-31-13 Revision 7 Rev Date 09/29/2000

Certifies that the work specified in block 12/13 was carried out in accordance with EASA Part 145 and in respect to that work the component is considered ready for release to service under EASA Part 145 Approval Number EASA 145 4378

14 Certifies the items identified above were manufactured in conformity to:	19
[ ] Approved design data and are in a condition for safe operation. [ ] Non-approved design data specified in Block 13	[X] 14 CFR 43 9 Return to Service [X] Other regulation specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval / Authorization No.	20 Authorized Signature	21 Approval / Certificate No
		Sandy Wolfe	KT2R964K
17 Name (Typed or Printed):	18 Date (m d y):	22 Name (Typed or Printed) SANDY WOLFE	23 Date (m d y) JUN 18 2013

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

FAA Form 8130-3 (6-01)

* Installer must cross check eligibility with applicable technical data NSN 0052-00-012-9005

Paperwork Reduction Act Statement.
An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a current with this collection of information is 2120-0018 Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at 800 Independence Ave. SW, Washington, DC 20591, Attn Information Collection Clearance Officer ABA-20

1 Approving National Aviation Authority/Country FAA/United States	2.	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 30871632-001

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9697008620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	NOZZLE ASSY, FUEL	3830057-7	N/A	1	1BKR1066	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49 , Rev 36, dated 3/31/2011

UAL 60-49-20-00/AR03

INSPECTED IN OVERHAULED CONDITION, REF FORM 8130 TRACKING NUMBER 30871632

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14. Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature Terry E. Coulter 164	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) TERRY E COULTER	23 Date (m/d/y) July 23, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

63

OMB Control No 2120-0018
09/30/2007

1 Approving National Aviation Authority / Country	2	3 Form Tracking Number
FAA / UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG**	00000000000002227116 30871632 Page 1 of 1
4 Organization Name and Address	Delavan Inc 811 FOURTH STREET WEST DES MOINES, IA 50265-0100 USA CERTIFICATE #KT2R964K	5 Work Order/Contract/Invoice Number 4858012 3500111945

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch Number	12 Status/Work.
01	331-250 NOZZLE ASSY	68009-7 (3830057-7)	N/A	1	SN 1BKR1066	OVERHAULED

13 Remarks
Purpose Approval for Return to Service
OVERHAULED in accordance with CMM CMM-49-31-13 Revision 7 Rev Date 09/29/2000

Certifies that the work specified in block 12/13 was carried out in accordance with EASA Part 145 and in respect to that work the component is considered ready for release to service under EASA Part 145 Approval Number EASA 145 4378

14. Certifies the items identified above were manufactured in conformity to:	19
☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13.	[X] 14 CFR 43 9 Return to Service [X] Other regulation specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service

15. Authorized Signature:	16. Approval / Authorization No.:	20 Authorized Signature	21 Approval / Certificate No
		Sandy Wolfe	KT2R964K
17. Name (Typed or Printed):	**18. Date (m.d.y):**	22 Name (Typed or Printed)	23 Date (m d y)
		SANDY WOLFE	JUN 18 2013

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

FAA Form 8130-3 (6-01)

* Installer must cross check eligibility with applicable technical data NSN 0052-00-012-9005

Paperwork Reduction Act Statement.
An agency may not conduct or sponsor and a person is not required to respond to, a collection of information unless it displays a current with this collection of information is 2120-0018 Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at 800 Independence Ave SW, Washington DC 20591, Attn Information Collection Clearance Officer, ABA-20

1 Approving National Aviation Authority/Country FAA/United States	2.	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 30871563-001
4 Organization Name and Address Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM			5 Work Order/Contract/Invoice Number S9697008620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	NOZZLE ASSY, FUEL	3830057-7	N/A	1	1PV08194	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49 , Rev 36, dated 3/31/2011

UAL 60-49-20-00/AR03

INSPECTED IN OVERHAULED CONDITION, REF FORM 8130 TRACKING NUMBER 30871563

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature Terry E. Coulter 164	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) TERRY E COULTER	23 Date (m/d/y) July 23, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

OMB Control No 2120-0018
09/30/2007

AUTHORIZED RELEASE CERTIFICATE

FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG

1 Approving National Aviation Authority / Country	2	3 Form Tracking Number
FAA / UNITED STATES		00000000000002227003 30871563 Page 1 of 1

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Delavan Inc 811 FOURTH STREET WEST DES MOINES, IA 50265-0100 USA CERTIFICATE #KT2R964K	4889078 3500137668

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch Number	12 Status/Work
01	331-250 NOZZLE ASSY	68009-7 (3830057-7)	N/A	1	SN 1PV08194	OVERHAULED

13 Remarks
Purpose Approval for Return to Service
OVERHAULED in accordance with CMM CMM-49-31-13 Revision 7 Rev Date 09/29/2000

Certifies that the work specified in block 12/13 was carried out in accordance with EASA Part 145 and in respect to that work the component is considered ready for release to service under EASA Part 145 Approval Number EASA 145 4378

14. Certifies the items identified above were manufactured in conformity to:

[ ] Approved design data and are in a condition for safe operation.

[ ] Non-approved design data specified in Block 13.

19

[X] 14 CFR 43 9 Return to Service [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service

15. Authorized Signature	16. Approval / Authorization No.	20 Authorized Signature	21 Approval / Certificate No
		Sandy Wolfe	KT2R964K
17. Name (Typed or Printed)	18. Date (m d y)	22 Name (Typed or Printed)	23 Date (m d y)
		SANDY WOLFE	JUN 18 2013

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

FAA Form 8130-3 (6-01)

* Installer must cross check eligibility with applicable technical data NSN 0052-00-012-9005

Paperwork Reduction Act Statement.
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1 Approving National Aviation Authority/Country FAA/United States	2.	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 30864714-001

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9697008620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	NOZZLE ASSY, FUEL	3830057-7	N/A	1	1BFL1773	Inspected

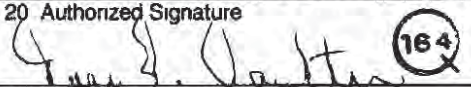
13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49 , Rev 36, dated 3/31/2011

UAL 60-49-20-00/AR03

INSPECTED IN OVERHAULED CONDITION, REF FORM 8130 TRACKING NUMBER 30864714

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature 	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) TERRY E COULTER	23 Date (m/d/y) July 23, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

OMB Control No 2120-0018
09/30/2007

AUTHORIZED RELEASE CERTIFICATE

FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG

1 Approving National Aviation Authority / Country	FAA / UNITED STATES
2	AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG
3 Form Tracking Number	00000000000002210963 30864714 Page 1 of 1
4 Organization Name and Address	Delavan Inc 811 FOURTH STREET WEST DES MOINES, IA 50265-0100 USA CERTIFICATE #KT2R964K
5 Work Order/Contract/Invoice Number	4871033 3500122014

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch Number	12 Status/Work
01	331-250 NOZZLE ASSY	68009-7 (3830057-7)	N/A	1	SN 1BFL1773	OVERHAULED

13 Remarks
Purpose Approval for Return to Service
OVERHAULED In accordance with CMM CMM-49-31-13 Revision 7 Rev Date 09/29/2000

Certifies that the work specified in block 12/13 was carried out in accordance with EASA Part 145 and in respect to that work the component is considered ready for release to service under EASA Part 145 Approval Number EASA 145 4378

14 Certifies the items identified above were maintained in conformity to:

☐ Approved design data and are in condition for safe operation

☐ Non-approved design data specified in Block 13

19

☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval / Authorization No	20 Authorized Signature	21 Approval / Certificate No
		Sandy Wolfe	KT2R964K
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed)	23 Date (m d y)
		SANDY WOLFE	JUN 07 2013

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

FAA Form 8130-3 (6-01)

* Installer must cross check eligibility with applicable technical data NSN 0052-00-012-9005

Paperwork Reduction Act Statement:
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1 Approving National Aviation Authority/Country
FAA/United States

2.

AUTHORIZED RELEASE CERTIFICATE

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3 Form Tracking Number
2203840-001

4 Organization Name and Address

Honeywell International
1944 East Sky Harbor Circle
Phoenix, AZ 85034

FAA Certificate # ZN3RO3OM

5 Work Order/Contract/Invoice Number
S9697008620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	NOZZLE ASSY, FUEL	3830057-7	N/A	1	1WP05471	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49 , Rev 36, dated 3/31/2011

UAL 60-49-20-00/AR03

INSPECTED IN OVERHAULED CONDITION, REF FORM 8130 TRACKING NUMBER 2203840

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to
☐ Approved design data and are in a condition for safe operation
☐ Non-approved design data specified in Block 13

19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13
Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
		Terry E Coulter 164	ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed)	23 Date (m/d/y)
		TERRY E COULTER	July 23, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

OMB Control No 2120-0018
09/30/2007

1 Approving National Aviation Authority / Country	2	3 Form Tracking Number
FAA / UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG**	00000000000002203840 Page 1 of 1

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Delavan Inc 811 FOURTH STREET WEST DES MOINES, IA 50265-0100 USA CERTIFICATE #KT2R964K	4880816 3500131909

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch Number	12 Status/Work
01	331-250 NOZZLE ASSY	68009-7 (3830057-7)	N/A	1	SN 1WP05471	OVERHAULED

13 Remarks
Purpose Approval for Return to Service
OVERHAULED in accordance with CMM CMM-49-31-13 Revision 7 Rev Date 09/29/2000

Certifies that the work specified in block 12/13 was carried out in accordance with EASA Part 145 and in respect to that work the component is considered ready for release to service under EASA Part 145 Approval Number EASA 145 4378

14 Certifies the items identified above were manufactured in conformity to:

[ ] Approved design data and are in a condition for safe operation

[ ] Non-approved design data as specified in Block 13

19

[X] 14 CFR 43 9 Return to Service [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service

16 Authorized Signature	17 Approval / Authorization No	20 Authorized Signature	21 Approval / Certificate No
		Ronda Baker	KT2R964K
15 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed)	23 Date (m d y)
		RONDA BAKER	JUN 04 2013

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

FAA Form 8130-3 (6-01)

* Installer must cross check eligibility with applicable technical data NSN 0052-00-012-9005

Paperwork Reduction Act Statement:
An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a current with this collection of information is 2120-0018 Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at. 800 Independence Ave SW, Washington, DC 20591, Attn Information Collection Clearance Officer, ABA-20

1 Approving National Aviation Authority/Country FAA/United States	2.	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 30880953-001

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9697008620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	NOZZLE ASSY, FUEL	3830057-6	N/A	1	1BDB1239	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49 , Rev 36, dated 3/31/2011

UAL 60-49-20-00/AR03

INSPECTED IN OVERHAULED CONDITION, REF FORM 8130 TRACKING NUMBER 30880953

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature Terry E. Coulter (164)
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) TERRY E COULTER
		21 Approval/Certificate No ZN3R030M
		23 Date (m/d/y) July 23, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

OMB Control No 2120-0018
09/30/2007

1 Approving National Aviation Authority / Country	2	3 Form Tracking Number
FAA / UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG**	00000000000002248613 30880953 Page 1 of 1

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Delavan Inc 811 FOURTH STREET WEST DES MOINES, IA 50265-0100 USA CERTIFICATE #KT2R964K	4922876 3500163204

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch Number	12 Status/Work
01	NOZZLE ASSY	68009-6 (3830057-6)	N/A	1	SN 1BDB1239	OVERHAULED

13 Remarks
Purpose Approval for Return to Service
OVERHAULED in accordance with CMM CMM-49-31-13 Revision 7 Rev Date 09/29/2000

Certifies that the work specified in block 12/13 was carried out in accordance with EASA Part 145 and in respect to that work the component is considered ready for release to service under EASA Part 145 Approval Number EASA 145 4378

14 Certifies the items identified above were manufactured in conformity to:

[ ] Approved design data and are in a condition for safe operation.

[ ] Non-approved design data specified in Block 13.

19

[X] 14 CFR 43 9 Return to Service [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval / Authorization No	20 Authorized Signature	21 Approval / Certificate No
		Sandy Wolfe	KT2R964K
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed)	23 Date (m d y)
		SANDY WOLFE	JUL 01 2013

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

FAA Form 8130-3 (6-01)

* Installer must cross check eligibility with applicable technical data NSN 0052-00-012-9005

Paperwork Reduction Act Statement.
An agency may not conduct or sponsor and a person is not required to respond to a collection of information unless it displays a current with this collection of information is 2120-0018 Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at 800 Independence Ave SW Washington DC 20591, Attn Information Collection Clearance Officer, ABA-20

1 Approving National Aviation Authority/Country FAA/United States	2	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 30880935-001
4 Organization Name and Address Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM			5 Work Order/Contract/Invoice Number S9697008620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	NOZZLE ASSY, FUEL	3830057-6	N/A	1	UX1-1112	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49 , Rev 36, dated 3/31/2011

UAL 60-49-20-00/AR03

INSPECTED IN OVERHAULED CONDITION, REF FORM 8130 TRACKING NUMBER 30880935

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature Terry E. Coulter 164	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) TERRY E COULTER	23 Date (m/d/y) July 23, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

OMB Control No 2120-0018
09/30/2007

1 Approving National Aviation Authority / Country	2 **AUTHORIZED RELEASE CERTIFICATE**	3 Form Tracking Number
FAA / UNITED STATES	**FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG**	00000000000002248526 30880935 *Page 1 of 1*

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Delavan Inc 811 FOURTH STREET WEST DES MOINES, IA 50265-0100 USA CERTIFICATE #KT2R964K	4922870 3500162804

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch Number	12 Status/Work
01	NOZZLE ASSY	68009-6 (3830057-6)	N/A	1	SN UX1-1112	OVERHAULED

13 Remarks
Purpose Approval for Return to Service
OVERHAULED in accordance with CMM CMM-49-31-13 Revision 7 Rev Date 09/29/2000

Certifies that the work specified in block 12/13 was carried out in accordance with EASA Part 145 and in respect to that work the component is considered ready for release to service under EASA Part 145 Approval Number EASA 145 4378

14 Certifies the items identified above were manufactured in conformity to:

[ ] Approved design data and are in a condition for safe operation.

[ ] Non-approved design data specified in Block 13.

19

[X] 14 CFR 43 9 Return to Service [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval / Authorization No	20 Authorized Signature	21 Approval / Certificate No
		Sandy Wolfe	KT2R964K
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed) SANDY WOLFE	23 Date (m d y) JUL 01 2013

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

FAA Form 8130-3 (6-01)

* Installer must cross check eligibility with applicable technical data NSN 0052-00-012-9005

Paperwork Reduction Act Statement:
An agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a current with this collection of information is 2120-0018 Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at 800 Independence Ave. SW Washington DC 20591 Attn Information Collection Clearance Officer ABA-20

1 Approving National Aviation Authority/Country FAA/United States	2.	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 30880916-001
4 Organization Name and Address Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM			5 Work Order/Contract/Invoice Number S9697008620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	NOZZLE ASSY, FUEL	3830057-6	N/A	1	UX1-1113	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49 , Rev 36, dated 3/31/2011.

UAL 60-49-20-00/AR03

INSPECTED IN OVERHAULED CONDITION, REF FORM 8130 TRACKING NUMBER 30880916

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature Terry E Coulter (164)	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) TERRY E COULTER	23 Date (m/d/y) July 23, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain *an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown*

188

OMB Control No 2120-0018
09/30/2007

1 Approving National Aviation Authority / Country	2	3 Form Tracking Number
FAA / UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG**	00000000000002248506 30880916 Page 1 of 1

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Delavan Inc 811 FOURTH STREET WEST DES MOINES, IA 50265-0100 USA CERTIFICATE #KT2R964K	4922873 3500162800

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch Number	12 Status/Work.
01	NOZZLE ASSY	68009-6 (3830057-6)	N/A	1	SN UX1-1113	OVERHAULED

13 Remarks
Purpose Approval for Return to Service
OVERHAULED in accordance with CMM CMM-49-31-13 Revision 7 Rev Date 09/29/2000

Certifies that the work specified in block 12/13 was carried out in accordance with EASA Part 145 and in respect to that work the component is considered ready for release to service under EASA Part 145 Approval Number EASA 145 4378

14 Certifies the items identified above were manufactured in conformity to:

[ ] Approved design data and are in a condition for safe operation.

[ ] Non-approved design data specified in Block 13.

19

[X] 14 CFR 43 9 Return to Service [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval / Authorization No	20 Authorized Signature	21 Approval / Certificate No
		Sandy Wolfe	KT2R964K
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
		SANDY WOLFE	JUL 01 2013

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

FAA Form 8130-3 (6-01)

* Installer must cross check eligibility with applicable technical data NSN 0052-00-012-9005

Paperwork Reduction Act Statement.
An agency may not conduct or sponsor and a person is not required to respond to a collection of information unless it displays a current with this collection of information is 2120-0018 Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at 800 Independence Ave SW, Washington, DC 20591 Attn Information Collection Clearance Officer, ABA-20

1 Approving National Aviation Authority/Country FAA/United States	2.	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 30871619-001
4 Organization Name and Address Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034		FAA Certificate # ZN3RO3OM	5 Work Order/Contract/Invoice Number S9697008620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	NOZZLE ASSY, FUEL	3830057-6	N/A	1	1WN05462	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49 , Rev 36, dated 3/31/2011

UAL 60-49-20-00/AR03

INSPECTED IN OVERHAULED CONDITION, REF FORM 8130 TRACKING NUMBER 30871619

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature 164	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) TERRY E COULTER	23 Date (m/d/y) July 23, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

OMB Control No 2120-0018
09/30/2007

1 Approving National Aviation Authority / Country	2	3 Form Tracking Number
FAA / UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG**	00000000000002227096 30871619 Page 1 of 1

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Delavan Inc 811 FOURTH STREET WEST DES MOINES, IA 50265-0100 USA CERTIFICATE #KT2R964K	4871045 3500122045

6 Item.	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch Number	12 Status/Work
01	NOZZLE ASSY	68009-6 (3830057-6)	N/A	1	SN 1WN05462	OVERHAULED

13 Remarks
Purpose Approval for Return to Service
OVERHAULED in accordance with CMM CMM-49-31-13 Revision 7 Rev Date 09/29/2000

Certifies that the work specified in block 12/13 was carried out in accordance with EASA Part 145 and in respect to that work the component is considered ready for release to service under EASA Part 145 Approval Number EASA 145 4378

14. Certifies the items identified above were manufactured in conformity to:

[ ] Approved design data and are in a condition for safe operation.

[ ] Non-approved design data specified in Block 13.

19

[X] 14 CFR 43 9 Return to Service [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service

15. Authorized Signature:	16. Approval / Authorization No:	20 Authorized Signature	21 Approval / Certificate No
		Sandy Wolfe	KT2R964K
17. Name (Typed or Printed):	**18. Date (m d y):**	22 Name (Typed or Printed)	23 Date (m d y)
		SANDY WOLFE	JUN 18 2013

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

FAA Form 8130-3 (6-01)

* Installer must cross check eligibility with applicable technical data NSN 0052-00-012-9005

Paperwork Reduction Act Statement:
An agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a current with this collection of information is 2120-0018 Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at 800 Independence Ave SW, Washington DC 20591 Attn Information Collection Clearance Officer, ABA 20

1 Approving National Aviation Authority/Country FAA/United States	2	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 30880928-001

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9697008620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	NOZZLE ASSY, FUEL	3830057-6	N/A	1	UX1-1114	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49 , Rev 36, dated 3/31/2011

UAL 60-49-20-00/AR03

INSPECTED IN OVERHAULED CONDITION, REF FORM 8130 TRACKING NUMBER 30880928

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature Terry E Coulter 164	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) TERRY E COULTER	23 Date (m/d/y) July 23, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

OMB Control No 2120-0018
09/30/2007

1 Approving National Aviation Authority / Country	2 **AUTHORIZED RELEASE CERTIFICATE**	3 Form Tracking Number
FAA / UNITED STATES	**FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG**	00000000000002248515 30880928 Page 1 of 1

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Delavan Inc 811 FOURTH STREET WEST DES MOINES, IA 50265-0100 USA CERTIFICATE #KT2R964K	4922869 3500162790

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch Number	12 Status/Work
01	NOZZLE ASSY	66009-6 (3830057-6)	N/A	1	SN UX1-1114	OVERHAULED

13 Remarks
Purpose. Approval for Return to Service
OVERHAULED in accordance with CMM CMM-49-31-13 Revision 7 Rev Date 09/29/2000

Certifies that the work specified in block 12/13 was carried out in accordance with EASA Part 145 and in respect to that work the component is considered ready for release to service under EASA Part 145 Approval Number EASA 145 4378

14 Certifies the items identified above were manufactured in conformity to:

[ ] Approved design data and are in a condition for safe operation.

[ ] Non-approved design data specified in Block 13.

19

[X] 14 CFR 43 9 Return to Service [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval / Authorization No	20 Authorized Signature	21 Approval / Certificate No
		Sandy Wolfe	KT2R964K
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed)	23 Date (m d y)
		SANDY WOLFE	JUL 01 2013

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

FAA Form 8130-3 (6-01)

* Installer must cross check eligibility with applicable technical data NSN 0052-00-012-9005

Paperwork Reduction Act Statement:
An agency may not conduct or sponsor and a person is not required to respond to a collection of information unless it displays a current with this collection of information is 2120-0018 Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at 800 Independence Ave SW, Washington DC 20591 Attn Information Collection Clearance Officer, ABA 20

1 Approving National Aviation Authority/Country * FAA/United States	2	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 30880951-001

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9697008620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	NOZZLE ASSY, FUEL	3830057-6	N/A	1	1BKN1426	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49 , Rev 36, dated 3/31/2011

UAL 60-49-20-00/AR03

INSPECTED IN OVERHAULED CONDITION, REF FORM 8130 TRACKING NUMBER 30880951

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to	19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
		Terry E. Coulter 164	ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed)	23 Date (m/d/y)
		TERRY E COULTER	July 23, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

OMB Control No 2120-0018
09/30/2007

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1 Approving National Aviation Authority / Country	2	3 Form Tracking Number
FAA / UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG**	00000000000002248577 30880951 Page 1 of 1

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Delavan Inc 811 FOURTH STREET WEST DES MOINES, IA 50265-0100 USA CERTIFICATE #KT2R964K	4922866 3500162784

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch Number	12 Status/Work
01	NOZZLE ASSY	68009-6 (3830057-6)	N/A	1	SN 1BKN1426	OVERHAULED

13 Remarks
Purpose Approval for Return to Service
OVERHAULED in accordance with CMM CMM-49-31-13 Revision 7 Rev Date 09/29/2000

Certifies that the work specified in block 12/13 was carried out in accordance with EASA Part 145 and in respect to that work the component is considered ready for release to service under EASA Part 145 Approval Number EASA 145 4378

14 Certifies the items identified above were manufactured in conformity to:

☐ Approved design data and are in a condition for safe operation.

☐ Non-approved design data specified in Block 13.

19

[X] 14 CFR 43 9 Return to Service [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval / Authorization No	20 Authorized Signature	21 Approval / Certificate No
		Sandy Wolfe	KT2R964K
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
		SANDY WOLFE	JUL 01 2013

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

FAA Form 8130-3 (6-01)

* Installer must cross check eligibility with applicable technical data NSN 0052-00-012-9005

Paperwork Reduction Act Statement.
An agency may not conduct or sponsor and a person is not required to respond to a collection of information unless it displays a current with this collection of information is 2120-0018 Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at 800 Independence Ave. SW Washington, DC 20591, Attn Information Collection Clearance Officer ABA-20

1 Approving National Aviation Authority/Country
FAA/United States

2.

AUTHORIZED RELEASE CERTIFICATE

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3 Form Tracking Number
315159588

4 Organization Name and Address

Honeywell International
1944 East Sky Harbor Circle
Phoenix, AZ 85034

FAA Certificate # ZN3RO3OM

5 Work Order/Contract/Invoice Number
S9697008620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	PUMP ASSEMBLY SCAVENGE	3880160-3	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev. 36, dated 3/31/2011

UAL 60-49-20-00-AR03

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14. Certifies the items identified above were manufactured in conformity to
☐ Approved design data and are in a condition for safe operation
☐ Non-approved design data specified in Block 13

19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13
Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
			ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed)	23 Date (m/d/y)
		NONGNOOCH MERCER	July 24, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003553068Y15 315159588

4 Organization Name and Address		5 Work Order/Contract/Invoice Number
Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	Repair Station ZN3R030M	N/A 315119124 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	PUMP ASSEMBLY SCAVENGE	3880160-3	N/A	1	N/A	OVERHAULED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH
CMM 49-22-13 Rev 19, JUN/15/2010
IRM 49-23-49 Rev 36, MAR/31/2011

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND WITH RESPECT TO THAT WORK THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to	19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature Renoo Ziegler
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed) **Renoo Ziegler**
		21 Approval/Certificate No **ZN3R030M**
		23 Date (m d y) **JUL 05 2013**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003581453Y14- 5006484382-3074036-1

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9697008620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	SHIELD ASSY	3880170-3	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS SHIELD ASSY IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to	19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13
☒ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Stephen J. Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J. Robinson	**JUL 19 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003581458Y14 5006484382-3074038-1

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9697008620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	SEAL SFT	3822069-1	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS SEAL SFT IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identfied in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Stephen J Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J Robinson	**JUL 19 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003581462Y14 5006484382-3074038-5

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9697008620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	TUBE OIL RTN	3880169-2	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS TUBE OIL RTN IS A SUBCOMPONENT OF A TSO AUTHORIZATION SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Stephen J. Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J. Robinson	**JUL 19 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003581461Y14 5006484382-3074038-4

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9697008620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	TUBE OIL IN	3880168-1	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS TUBE OIL IN IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Stephen J. Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J. Robinson	**JUL 19 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/Installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003581455Y14 5006484382-3074036-1

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9697008620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	SHROUD FUEL NOZ	3830054-9	N/A	4	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS SHROUD FUEL NOZ IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to	19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13
☒ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Stephen J. Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J. Robinson	**JUL 19 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/Installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country FAA/United States	2.	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 258820
4 Organization Name and Address Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM			5 Work Order/Contract/Invoice Number S9697008620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	MUFFLER, EXHAUST	3850007-1	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev' 36, dated 3/31/2011

UAL 60-49-20-00-AR03

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) NONGNOOCH MERCER	23 Date (m/d/y) July 24, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2 AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIR WORTHINESS APPROVAL TAG	3 Form Tracking Number
FAA/UNITED STATES		258820

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Ace Precision Machining Corporation W146 N5714 Enterprise Ave Menomonee Falls, WI 53051 FAA Repair Station #QAPR054K	PO# 3500133604

6 ITEM	7 DESCRIPTION	8 PART NUMBER	9 ELIGIBILITY *	10 QUANTITY	11 SERIAL/BATCH NUMBER	12 STATUS/WORK
1	Muffler Exhaust	3850007-1	N/A	1	N/A	Overhauled

13 REMARKS

Certifies that the work specified in block 12/13 was carried out in accordance with EASA Part-145 and in respect to that work the component is considered ready for release to service under EASA Part-145 Approval Number EASA 145 4015

Overhauled in accordance with the following authorizing document(s) Full details of work carried out traceable to Form Tracking Number 258820

IRM 49-23-49 revision 36

Inspected per IRM requirements — Weld repair cracks

ORI P31683 revision NC

Replace honeycomb core

14 Certifies the items identified above were manufactured in conformity to	19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Authorization No
		Suzanne Loichinger	QAPR054K
17 Name (Typed or Printed)	**18 Date (m/d/y)**	**22 Name (Typed or Printed)**	**23 Date (m/d/y)**
		Suzanne Loichinger	Jun/05/2013

USER/INSTALLER RESPONSIBILITIES

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in block 1

Statements in block 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country FAA/United States	2.	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 258166-001
4 Organization Name and Address Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM			5 Work Order/Contract/Invoice Number S9687098620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	SEAL STTR 3STG	3844043-2	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49 , Rev 36, dated 3/31/2011

UAL 60-49-20-00/AR03

INSPECTED IN OVERHAULED CONDITION, REF FORM 8130 TRACKING NUMBER 258166

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature 164	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) TERRY E COULTER	23 Date (m/d/y) June 3, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2 AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIR WORTHINESS APPROVAL TAG	3 Form Tracking Number:
FAA/UNITED STATES		258166

4 Organization Name and Address	5 Work Order/Contract/Invoice Number.
Ace Precision Machining Corporation W146 N5714 Enterprise Ave Menomonee Falls, WI 53051 FAA Repair Station #QAPR054K	PO# 3500103423

6 ITEM	7 DESCRIPTION	8 PART NUMBER	9 ELIGIBILITY.*	10 QUANTITY	11 SERIAL/BATCH NUMBER	12 STATUS/WORK
1	Seal, STTR 3STG	3844043-2	N/A	1	N/A	Overhauled

13 REMARKS

Certifies that the work specified in block 12/13 was carried out in accordance with EASA Part-145 and in respect to that work the component is considered ready for release to service under EASA Part-145 Approval Number EASA.145 4015

Overhauled in accordance with the following authorizing document(s) Full details of work carried out traceable to Form Tracking Number 258166

IRM 49-23-49 revision 36

Inspected per IRM requirements Size/straighten

ORI P31721 revision B

Replace Honeycomb Seal

14 Certifies the items identified above were manufactured in conformity to		19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13			
15 Authorized Signature	16 Approval/Authorization No.	20 Authorized Signature Suzanne Loichinger	21. Approval/Authorization No. QAPR054K
17 Name (Typed or Printed)	18. Date (m/d/y)	22 Name (Typed or Printed) Suzanne Loichinger	23 Date (m/d/y) May/24/2013

USER/INSTALLER RESPONSIBILITIES

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in block 1

Statements in block 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003526843Y14 8002657726-10

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		67100500010 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	EXCITER IGNITION	3888058-7	N/A	3	130679 See Continuation	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS EXCITER IGNITION IS A SUBCOMPONENT OF A TSO AUTHORIZATION

11 Serial/Batch Number(s) (Continued)

130727, 130730

14 Certifies the items identified above were manufactured in conformity to	19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13		
☒ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of federal Regulations, part 43 and in respect to that work, the items are approved for return to service		
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
	ODA-602216-NM		
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed)	23 Date (m d y)
James Baldwin	**JUN 25 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/Installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1. Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003471152Y14 5006334755-2997477-9

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9687098620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	STATOR, SECOND STAGE, TURBINE	3844012-3	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS STATOR, SECOND STAGE, TURBINE IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC. REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Stephen J. Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J. Robinson	**MAY 30 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country FAA/United States	2.	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 247553-001

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9687098620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work.
001	SEAL STTR 2STG	3844036-2	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49 , Rev. 36, dated 3/31/2011

UAL 60-49-20-00/AR03

INSPECTED IN OVERHAULED CONDITION, REF FORM 8130 TRACKING NUMBER 247553

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature 164	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)*	18 Date (m/d/y)	22 Name (Typed or Printed) TERRY E COULTER	23 Date (m/d/y) June 3, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2 AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIR WORTHINESS APPROVAL TAG	3 Form Tracking Number.
FAA/UNITED STATES		247553

4 Organization Name and Address	5 Work Order/Contract/Invoice Number.
Ace Precision Machining Corporation W146 N5714 Enterprise Ave Menomonee Falls, WI 53051 FAA Repair Station #QAPR054K	PO# 4204387631

6 ITEM	7 DESCRIPTION	8 PART NUMBER	9 ELIGIBILITY *	10 QUANTITY	11 SERIAL/BATCH NUMBER	12 STATUS/WORK
1	Seal, STTR 2STG	3844036-2	N/A	1	N/A	Overhauled

13 REMARKS

Certifies that the work specified in block 12/13 was carried out in accordance with EASA Part-145 and in respect to that work the component is considered ready for release to service under EASA Part-145 Approval Number EASA.145 4015

Overhauled in accordance with the following authorizing document(s) Full details of work carried out traceable to Form Tracking Number 247553

IRM 49-23-49 revision 36

Inspected per IRM requirements Size/straighten

ORI P31710 revision B

Replace Honeycomb Seal

14 Certifies the items identified above were manufactured in conformity to	19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature Jason Glocka	21. Approval/Authorization No QAPR054K
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) Jason Glocka	23 Date (m/d/y) Apr/30/2012

USER/INSTALLER RESPONSIBILITIES

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in block 1

Statements in block 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003581452Y14 5006484382-3074036-1

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9697008620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	BLANKET INSUL SEG	3844082-1	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS BLANKET INSUL SEG IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to

☒ Approved design data and are in a condition for safe operation

☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Stephen J Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J Robinson	**JUL 19 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003571539Y14- 5006518676-3075630-1

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PC413NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9709048620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	SUPPORT ASSEMBLY, BEARING	865042-8	N/A	1	N/A	NEW

13 **Remarks .**

AIRWORTHINESS APPROVAL

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

☒ Approved design data and are in a condition for safe operation

☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Cornel Bonchis	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Cornel Bonchis	**JUL 16 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003580448Y14 5006484382-3074036-3

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
	Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9697008620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	SEAL ASSY TURB BRG	3844065-2	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS SEAL ASSY TURB BRG IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Stephen J Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J Robinson	**JUL 19 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/Installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2.	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number
FAA/United States			R13-0129

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9697008620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	COUPLING, CURVIC, ROTOR SEAL	3840011-3	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev 36, dated 3/31/2011

UAL 60-49-20-00-AR03

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to	19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
			ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed)	23 Date (m/d/y)
		NONGNOOCH MERCER	July 24, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country:	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130–3, AIRWORTHINESS APPROVAL TAG	R13-0129

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
AEROTEC INTERNATIONAL INC FAA REPAIR STATION UMCR407K, 3007 E CHAMBERS, PHOENIX, AZ 85040	R2134

6 Item	7 Description	8. Part Number	9. Eligibility *	10 Quantity	11. Serial/Batch Number	12 Status/Work
1	ROTOR SEAL CURVIC COUPLING	3840011-3	N/A	1 EA	IDR13-0129	OVERHAULED

13 Remarks

F/P, METAL SPRAY REPAIRED, RESTORED CURVIC RUNOUTS, MACHINED WITHIN LIMITS, HAND FINISHED, CLEANED, INSPECTED IAW HONEYWELL INSPECTION/ REPAIR MANUAL 49-23-49, REV 36, DATED 3/31/11 AND ATR3310009-2. (MEETS OVERHAUL CRITERIA).

PERTINENT DETAILS OF WORK PERFORMED ARE ON FILE AT THIS REPAIR STATION UNDER REPAIR ORDER # R13-0129 (SAT RIVER)

Certifies that the work specified in block 12/13 was carried out in accordance with EASA Part-145 and in respect to that work the component is considered ready for release to service under EASA Part-145 Approval Number EASA 145.4142 Repair design data used in the maintenance of this component in compliance with EASA Executive Director Decision 2004/04/CF, As Amended By Executive Director Decision 2007/001/C

14. Certifies the items identified above were manufactured in conformity to	19 ☑ 14 CFR 43.9 Return to Service ☑ Other regulation specified in Block 13
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
			UMCR407K
17 Name (Typed or Printed)	18 Date (m/d/y)	22. Name (Typed or Printed)	23. Date (m/d/y)
		FERNANDO AGUERO	JUN 11 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003581463Y14 5006484382-3074038-6

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PC413NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9697008620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	RING SEAL	3101874-1	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Stephen J. Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J. Robinson	**JUL 19 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003581464Y14 5006484382-3074038-7

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9697008620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	RING SEAL	3844059-1	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS RING SEAL IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Stephen J. Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J. Robinson	**JUL 19 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003580447Y14 5006484382-3074036-2

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
	Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9697008620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	SHROUD TURB 1STG	3844008-1	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS SHROUD TURB 1STG IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Stephen J. Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J. Robinson	**JUL 19 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country FAA/United States	2.	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 259533
4 Organization Name and Address Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM			5 Work Order/Contract/Invoice Number S9697008620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	SUPPORT	3844009-1	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev· 36, dated 3/31/2011

UAL 60-49-20-00-AR03

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14. Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) NONGNOOCH MERCER	23 Date (m/d/y) July 24, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2 AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIR WORTHINESS APPROVAL TAG	3 Form Tracking Number
FAA/UNITED STATES		259533

4 Organization Name and Address	5 Work Order/Contract/Invoice Number.
Ace Precision Machining Corporation W146 N5714 Enterprise Ave Menomonee Falls, WI 53051 FAA Repair Station #QAPR054K	PO# 3500162043

6 ITEM	7 DESCRIPTION	8 PART NUMBER	9 ELIGIBILITY *	10 QUANTITY	11 SERIAL/BATCH NUMBER	12 STATUS/WORK
1	Support	3844009-1	N/A	1	N/A	Overhauled

13 REMARKS

Certifies that the work specified in block 12/13 was carried out in accordance with EASA Part-145 and in respect to that work the component is considered ready for release to service under EASA Part-145 Approval Number EASA 145 4015

Overhauled in accordance with the following authorizing document(s) Full details of work carried out traceable to Form Tracking Number 259533

IRM 49-23-49 revision 36

Inspected per IRM requirements

ORI P31973 revision B

Replace top ring

14 Certifies the items identified above were manufactured in conformity to	19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Authorization No
		Suzanne Loichinger	QAPR054K
17 Name (Typed or Printed)	**18 Date (m/d/y)**	**22 Name (Typed or Printed)**	**23 Date (m/d/y)**
		Suzanne Loichinger	Jun/21/2013

USER/INSTALLER RESPONSIBILITIES

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component assembly
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in block 1
Statements in block 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country FAA/United States	2.	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 259925
4 Organization Name and Address Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM			5 Work Order/Contract/Invoice Number S9697008620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	SUPPORT	3844007-1	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev 36, dated 3/31/2011

UAL 60-49-20-00-AR03

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) NONGNOOCH MERCER	23 Date (m/d/y) July 24, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2 AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIR WORTHINESS APPROVAL TAG	3 Form Tracking Number
FAA/UNITED STATES		259925

4 Organization Name and Address.	5 Work Order/Contract/Invoice Number.
Ace Precision Machining Corporation W146 N5714 Enterprise Ave Menomonee Falls, WI 53051 FAA Repair Station #QAPR054K	PO# 3500178733

6 ITEM	7 DESCRIPTION	8 PART NUMBER	9 ELIGIBILITY *	10 QUANTITY	11 SERIAL/BATCH NUMBER	12 STATUS/WORK
1	Support	3844007-1	N/A	1	N/A	Overhauled

13 REMARKS

Certifies that the work specified in block 12/13 was carried out in accordance with EASA Part-145 and in respect to that work the component is considered ready for release to service under EASA Part-145 Approval Number EASA.145 4015

Overhauled in accordance with the following authorizing document(s) Full details of work carried out traceable to Form Tracking Number 259925

IRM 49-23-49 revision 36

Inspected per IRM requirements Metal Spray Diameter -B-

ORI T40061 revision B

Replace -FN2 flange

14 Certifies the items identified above were manufactured in conformity to	19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature Eric Wondolkowski
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) Eric Wondolkowski
		21 Approval/Authorization No QAPR054K
		23 Date (m/d/y) Jul/12/2013

USER/INSTALLER RESPONSIBILITIES

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in block 1

Statements in block 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country FAA/United States	2	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 260006

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9697008620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	SEAL LBYR	3844050-2	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev· 36, dated 3/31/2011

UAL 60-49-20-00-AR03

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) NONGNOOCH MERCER	23 Date (m/d/y) July 24, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2 AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIR WORTHINESS APPROVAL TAG	3 Form Tracking Number
FAA/UNITED STATES		260006

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Ace Precision Machining Corporation W146 N5714 Enterprise Ave Menomonee Falls, WI 53051 FAA Repair Station #QAPR054K	PO# 3500178594

6 ITEM	7 DESCRIPTION	8 PART NUMBER	9 ELIGIBILITY *	10 QUANTITY	11 SERIAL/BATCH NUMBER	12 STATUS/WORK
1	Seal, Labyrinth	3844050-2	N/A	1	N/A	Overhauled

13 REMARKS

Certifies that the work specified in block 12/13 was carried out in accordance with EASA Part-145 and in respect to that work the component is considered ready for release to service under EASA Part-145 Approval Number EASA 145 4015

Overhauled in accordance with the following authorizing document(s) Full details of work carried out traceable to Form Tracking Number 260006

IRM 49-23-49 revision 36

Inspected per IRM requirements Metal Spray Diameter -H-

ORI P31603 revision C

Replace Honeycomb Seal

14 Certifies the items identified above were manufactured in conformity to	19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Authorization No
		Suzanne Loichinger	QAPR054K
17 Name (Typed or Printed)	**18 Date (m/d/y)**	**22 Name (Typed or Printed)**	**23 Date (m/d/y)**
		Suzanne Loichinger	Jul/15/2013

USER/INSTALLER RESPONSIBILITIES

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in block 1

Statements in block 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country FAA/United States	2	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 314654768
4 Organization Name and Address Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM			5 Work Order/Contract/Invoice Number S9697008620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	DUCT, DIFFUSER AND DESWIRL, FIRST STAGE	3826230-1	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev. 36, dated 3/31/2011

ARBA 3300-5006298275-001

UAL 60-49-20-00-AR03

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) NONGNOOCH MERCER	23 Date (m/d/y) July 24, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2.	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003495715Y15 314654768

4 Organization Name and Address		5 Work Order/Contract/Invoice Number
Honeywell International Inc Nádražní 400 783 66 HLUBOČKY - MARIÁNSKÉ ÚDOLÍ CZECH REPUBLIC	Repair Station MXHY520X	4614442 314604656 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	DUCT, DIFFUSER AND DESWIRL, FIRST STAGE	3826230-1	N/A	1	N/A	OVERHAULED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH
IRM 49-23-49 Rev 36
ORI P30157 Rev.A
ORI P30042 Rev A
ORI P32263 Rev -

Traceability Number 3300-4614442 R

Engineering criteria complies with A R B A DAF 3300-5006298275-001

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER EASA CZ 145 0034

14 Certifies the items identified above were manufactured in conformity to		19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature authority per FAR 145 OP 011/2008	21 Approval/Certificate No **MXHY520X**
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed) **Petr Balaz**	23 Date (m d y) **JUN 11 2013**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country FAA/United States	2.	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 258831

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9701178620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	TRANSITION LINER ASSEMBLY COMB	3844001-3	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev. 36, dated 3/31/2011.

UAL 60-49-20-00-AR03

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43.9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and descnbed in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authonzed Signature	16 Approval/Authonzation No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) NONGNOOCH MERCER	23 Date (m/d/y) June 20, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2 AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIR WORTHINESS APPROVAL TAG	3 Form Tracking Number
FAA/UNITED STATES		258831

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Ace Precision Machining Corporation W146 N5714 Enterprise Ave Menomonee Falls, WI 53051 FAA Repair Station #QAPR054K	PO# 3500133559

6 ITEM	7 DESCRIPTION	8 PART NUMBER	9 ELIGIBILITY *	10 QUANTITY	11 SERIAL/BATCH NUMBER	12 STATUS/WORK
1	Transition Liner	3844001-3	N/A	1	N/A	Overhauled

13 REMARKS

Certifies that the work specified in block 12/13 was carried out in accordance with EASA Part-145 and in respect to that work the component is considered ready for release to service under EASA Part-145 Approval Number EASA 145 4015

Overhauled in accordance with the following authorizing document(s) Full details of work carried out traceable to Form Tracking Number 258831

IRM 49-23-49 revision 36

Inspected per IRM requirements — Size/straighten — Weld repair Diameter -J-

ORI P31818 revision NC

Replace inner sleeve and flange — Thermal Barrier Coat

ORI P35380 revision NC

Weld repair Diameter -B-

14 Certifies the items identified above were manufactured in conformity to		19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Authorization No
		Suzanne Loichinger	QAPR054K
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed)	23 Date (m/d/y)
		Suzanne Loichinger	Jun/11/2013

USER/INSTALLER RESPONSIBILITIES

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in block 1

Statements in block 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003566670Y14 5006484382-3067739-1

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9697008620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	DESWIRL ASSEMBLY	3826110-2	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS DESWIRL ASSEMBLY IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to	19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13
☒ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Florie McCrone	**ODA-602216-NM**		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Florie McCrone	**JUL 12 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1. Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1 Approving National Aviation Authority/Country	2.	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number
FAA/United States			315027771

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9697008620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	DIFFUSER ASSY, 2ND STAGE	3826262-1	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev 36, dated 3/31/2011

UAL 60-49-20-00-AR03

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) NONGNOOCH MERCER	23 Date (m/d/y) July 24, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003523022Y15 315027771

4 Organization Name and Address		5 Work Order/Contract/Invoice Number
Honeywell International Inc Nadrazni 400 783 65 HLUBOCKY -MARIANSKE UDOLI CZECH REPUBLIC	Repair Station MXHY520X	4696177 314983491 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	DIFFUSER ASSY, 2ND STAGE	3826262-1	N/A	1	N/A	OVERHAULED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH
IRM 49-23-49 Rev 36

Traceability Number 3300-4696177 R

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER EASA CZ 145 0034

14 Certifies the items identified above were manufactured in conformity to	19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature / 16 Approval/Authorization No	20 Authorized Signature authority per FAR 145 OP 002/2002	21 Approval/Certificate No **MXHY520X**
17 Name (Typed or Printed) / 18 Date (m d y)	22 Name (Typed or Printed) **Lubomir Novak**	23 Date (m d y) **JUN 24 2013**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003581451Y14 5006484382-3074036-1

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9697008620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	BLANKET, INSUL	3826185-4	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS BLANKET, INSUL IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Stephen J. Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J. Robinson	**JUL 19 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	8900035814S0Y14 5006484382-3074036-9

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9697008620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	BLANKET INSUL	3826184-5	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS BLANKET INSUL IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
S Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J. Robinson	**JUL 19 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/Installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country FAA/United States	2.	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 314984406

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9697008620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	HOUSING ASSY CPRSR	3826138-3	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev 36, dated 3/31/2011

UAL 60-49-20-00-AR03

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) NONGNOOCH MERCER	23 Date (m/d/y) July 24, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2.	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003555499Y15 314984406

4 Organization Name and Address		5 Work Order/Contract/Invoice Number
Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	Repair Station ZN3R030M	N/A 314895127 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	HOUSING ASSY CPRSR	3826138-3	N/A	1	N/A	OVERHAULED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH
IRM 49-23-49 Rev 36, MAR/31/2011
ORI P31488 Rev E, OCT/18/2012

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to		19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in condition for safe operation ☐ Non-approved design data specified in Block 13		Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No **ZN3R030M**
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed) **Emil Cristea**	23 Date (m d y) **JUL 08 2013**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003580449Y14-5006484382-3074036-8

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9697008620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	SHROUD, COMPRESSOR	3810138-2	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS SHROUD, COMPRESSOR IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
S Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J Robinson	**JUL 19 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003593407Y14 5006484382-3095304-1

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9697008620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	HOUSING ASSEMBLY, INLET	3810259-3	N/A	1	13-156136-00040	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS HOUSING ASSEMBLY, INLET IS A SUBCOMPONENT OF A TSO AUTHORIZATION.

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Steven Hester	**JUL 24 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003581456Y14 5006484382-3074036-1

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9697008620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	HOUSING ASSEMBLY, BEARING INLET	3810127-1	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS HOUSING ASSEMBLY, BEARING INLET IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Stephen J Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J Robinson	**JUL 19 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/Installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	AUTHORIZED RELEASE CERTIFICATE	3 Form Tracking Number
FAA/United States	**FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	899003581457Y14 5006484382 3074036-1

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9697008620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	SHAFT, COUPLING, ENGINE COMPRESSOR	3822065-1	N/A	1	N/A	NEW

13 Remarks :

AIRWORTHINESS APPROVAL

THIS SHAFT, COUPLING, ENGINE COMPRESSOR IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Stephen J. Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J. Robinson	**JUL 19 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/Installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

WORK CENTER: 551

SERIAL NBR	ET	MT	NAME	PWR RTG	CUST
61646		V	APU331	200E	UA

ORDER NUMBER
V532

COAS FOR MODULE TYPE N - SERIAL NUMBER P1392 MODULE NAME: POWER SECTION WORK CENTER: 551

COA NUMBER	COA CAT	MODULE/ FUNC NBR	UNIT SERIAL	UNIT COA STATUS	ISS	COMP	COA TITLE	COMPLETION DATE

*** NO COAS SCHEDULED FOR THIS UNIT ***

13

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, ACCY GEARCASE

REV. 4/26/07

AV534	61965	V3000.0
ORDER NO	ENGINE NO.	JOB NO

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT

214386	V0002.0	- NON-ROUTINE ACCOUNTABILITY
214386 . 371TL	V3010.0	ACCY GEARCASE - DISASSEMBLY
214386 . 371TL	V3020.0	ACCY GEARCASE - CLEANING
214386 . 371TL	V3040.0	49-26-01ACCESSORY GEARBOX ASSEMBLY
214386	V4010.0	GEN SCAV PUMP - DISASSEMBLY AND CLEAN
214386 . 371TL	V4040.0	GEN SCAVENGE PUMP - ASSEMBLY
214386 . 371TL	V7010.0	STARTER CLUTCH - DISASSEMBLY/CLEANING
214386 . 371TL	V7040.0	STARTER CLUTCH - ASSEMBLY
		NOTE - INCLUDE 49-26-01/ICS - ACCESSORY GEARBOX/CLUTCH AY INSPECTION WITH LOG PACKAGE.

214386

13

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, ACCY GEARCASE

REV. 4/26/07

AV534	61965	V3000.0
ORDER NO	ENGINE NO	JOB NO

214386

+2 NO COA'S 214386

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

   ASSEMBLY S/N: P1536 214386

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

   SIGNATURE: 214386 DATE: 7/30/12

END JOB V3000.0 REVISED 4/26/07

13

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ACCY GEARCASE - DISASSEMBLY

REV. 11/23/12

AV534	61965	V3010.0
ORDER NO	ENGINE NO	JOB NO.

M 7870 1. REMOVE EXTERNAL PLUG FROM CENTER OF GEARBOX HOUSING ADJACENT TO THE GENERATOR PAD AND DISCARD OLD PART NUMBER PLUG (WITHOUT KEENSERT). DISCARD O-RING

M 7870 2. REMOVE DISCHARGE TUBE AND OIL JET FROM AROUND CLUTCH ENSURING REMOVAL OF CLAMP, RETAINED TUBE AND FASTENERS.

M 7870 3. REMOVE RETAINER FROM OIL PRESSURE SUPPLY TUBE TO CARRIER.

M 7870 4. REMOVE BEARING RETAINERS FROM PINION AND GENERATOR GEARS.

M 7870 5. REMOVE CARRIER ASSEMBLY FROM GEARBOX HOUSING.

M 7870 6. REMOVE OIL TUBES AND DISCARD O-RINGS.

M 7870 7. REMOVE COOLING FAN IDLER GEAR AND REMOVE BEARINGS WITH 294866-5 ADAPTER, 294870-2 PLATE AND 4020C PULLER.

NOTE - THIN GEAR (.250) PART NUMBER MAY BE DIACARDED WITH BEARINGS PRIOR TO DISASSEMBLY IF THE GEARBOX WAS ROUTED FOR REPLACEMENT OF THE IDLER GEAR.

371TL L 8. CIRCLE AND ACCOMPLISH A OR B BELOW:
WAS ENGINE REVIEWED FOR COOLING FAN IDLER GEAR REPLACEMENT?

A. YES, CALL FOR EXPOSED AREA INSPECTION.

371TL B. NO, CONTINUE DISASSEMBLY AT SIGN-OFF 10 AND ROUTE DISASSEMBLED GEARBOX FOR CLEANING.

551

371TL L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

13

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ACCY GEARCASE - DISASSEMBLY

REV. 11/23/12

AV534	61965	V3010.0
ORDER NO	ENGINE NO	JOB NO

M 7870 9. REMOVE GENERATOR SCAVENGE PUMP DISCARD O-RINGS AND SEAL.

M 7870 10. REMOVE ALL PLUGS AND FITTINGS FROM EXTERNAL OF GEARBOX. DISCARD O-RINGS.

M 7870 11. REMOVE CAP AND ADAPTER ASSEMBLY, FILLER AND SIGHT GLASS HOUSING, REFLECTOR, PLACARD AND WINDOW. DISCARD O-RINGS.

M 7870 12. DISASSEMBLE JETS FROM CARRIER AND REMOVE REMAINING BEARING RETAINERS. DISCARD O-RINGS.

M 7870 13. REMOVE THE FOLLOWING GEARS AND BEARINGS. (USE TOOL CHART).

GEAR	ADAPTER	PLATE	PULLER
OIL PUMP DRIVE	294866-5	294867-3	4020C
GENERATOR IDLER	294866-1	294867-1	4020C
COMPOUND GEAR	294865-2	294865-2	4020C
GENERATOR DRIVE	294866-4/-6	294870-5	4020C
HIGH SPEED PINION	294866-3	294869-1	4020C

M 7870 14. REMOVE OIL TRANSFER TUBES, OIL JETS AND SCAVENGE TUBE. DISCARD O-RINGS.

END JOB V3010.0 REVISED 11/23/12

371TL L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

13

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ACCY GEARCASE - CLEANING

REV. 4/27/01

AV534	61965	V3020.0
ORDER NO.	ENGINE NO	JOB NO.

1. U7926 UTILITY MECHANIC (U) CLEAN ACCESSORY GEARCASE PER GN 4-0-3-20 PROCESS 01 (SOLVENT CLEAN), AND/OR GN 4-0-3-20 PROCESS 2C.

371TL L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

13

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ACCY GEARCASE - CLEANING

REV. 4/27/01

AV534	61965	V3020.0
ORDER NO	ENGINE NO	JOB NO.

END JOB V3020.0 REVISED 4/27/01

371TL L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

13

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-26-01ACCESSORY GEARBOX ASSEMBLY

REV. 7/11/12

AV534	61965	V3040.0
ORDER NO	ENGINE NO	JOB NO.

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-26-01.

ASSIGNED TO ENGINE ORDER NUMBER V539214386

M 7989 1. PREASSEMBLE GEARBOX HOUSING.

M 7989 2. ASSEMBLE BEARINGS ON GEARS.

371TL LM 7989 3. INSTALL GEARS.

371TL LM 7989 4. INSTALL CARRIER.

M 7989 5. INSTALL BEARING RETAINERS.

M 7989 6. ASSEMBLE AND INSTALL GENERATOR SCAVENGE PUMP.

M 7989 7. CIRCLE AND ACCOMPLISH A OR B BELOW.

WAS ENGINE REVIEWED FOR COOLING FAN IDLER GEAR REPLACEMENT?

A. YES, NO FURTHER SIGNOFF REQUIRED.

NOTE - STEPS 1 THROUGH 6 ABOVE REPRESENT ONLY PARTIAL ASSEMBLY OF THE EXPOSED PARTS TO ACCOMPLISH THE COOLING FAN IDLER GEAR CHANGE.

7989 B. NO, CONTINUE WITH ASSEMBLY STEPS.

M 7989 8. ASSEMBLE AND INSTALL STARTER CLUTCH.

M 7989 9. INSTALL EXTERNAL PARTS.

371TL L ALL ITEMS ARE PROPERLY SIGNED OFF.

551

ENGINE MAINTENANCE DEPARTMENT

UNITED

13

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Signed in error. ~~7989~~ 6 ~~7089~~ I

0C18517 I

Job Instruction Card

331-200 49-26-01ACCESSORY GEARBOX ASSEMBLY

REV. 7/11/12

AV534	61965	V3040.0
ORDER NO	ENGINE NO	JOB NO

10. FINAL INSPECTION CHECK.

NOTE - *VERIFY AREA IS INTACT AND FREE OF DEFECTS AND ALL DEBRIS.*
REFERENCE PAOG 45-55-30-06

END JOB V3040.0 REVISED 7/11/12

3717L

_____L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

13

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 STARTER CLUTCH - DISASSEMBLY/CLEANING

REV. 5/6/96

LV534	61965	V7010.0
ORDER NO.	ENGINE NO	JOB NO

M 7870 1. REMOVE LRU CLUTCH ADAPTER TOOL.

M 7870 2. REMOVE ASSEMBLED STARTER GEAR FROM ADAPTER.

M 7870 3. REMOVE WASHERS AND WAVE SPRINGS FROM ADAPTER.

M 7870 4. REMOVE RETAINING RING AND WASHERS FROM ASSEMBLED STARTER GEAR. REMOVE SPLINE SHAFT AND PLUG.

M 7870 5. REMOVE BEARINGS FROM SPLINE SHAFT AND STARTER GEAR.

M 7870 6. DISCARD ALL BEARINGS EXCEPT P/N 3860160-1. BAG REMAINING BEARING FOR RECOVERY.

7. U 7926 UTILITY MECHANIC (U) CLEAN DISASSEMBLED PARTS PER GN 4-0-3-20 PROCESS 01. (SOLVENT CLEAN)

M 7870 8. ROUTE PARTS TO INSPECTION.

37177 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

13

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 STARTER CLUTCH - DISASSEMBLY/CLEANING

REV. 5/6/96

LV534	61965	V7010.0
ORDER NO	ENGINE NO.	JOB NO

END JOB V7010.0 REVISED 5/6/96

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

13

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 STARTER CLUTCH - ASSEMBLY

REV. 9/27/93

LV534	61965	V7040.0
ORDER NO	ENGINE NO.	JOB NO

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-27-01/SP01

ASSIGNED TO ENGINE ORDER NUMBER V535 214386

M 7989 1. ASSEMBLE STARTER GEAR ASSEMBLY.

2.9850 - A2 (REFERENCE DIMENSION)

-2.361- A3

=0.624- (SUBTOTAL)

- 0.6180 - A1 (REFERENCE DIMENSION)

=0.006- (SUBTOTAL)

+0.215 - B

=0.221 - (SUBTOTAL)

- 0.0780 - (SPRING HEIGHT)

=0.143 - (SUBTOTAL)

- 0.1000 - (NOMINAL)

=0.043- SHIM THICKNESS REQUIRED.

0.043- ACTUAL SHIMS USED, + OR - 0.001 INCH.

371TL L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

13

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 STARTER CLUTCH - ASSEMBLY

REV. 9/27/93

LV534	61965	V7040.0
ORDER NO	ENGINE NO	JOB NO

M 7989 2. INSTALL SPLINE SHAFT AND STARTER CLUTCH.

.264 - 1A

-.132 = 1B

=.132 (SUBTOTAL)

-.062 1C

=.07 - (SUBTOTAL)

- 0.0455

=.0245 SHIM THICKNESS REQUIRED.

.025 - ACTUAL SHIMS USED, + OR - 0.0025 INCH.

M 7989 3. PACKAGE LRU CLUTCH ASSEMBLY.

END JOB V7040.0 REVISED 9/27/93

371TL L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

UNITED AIRLINES

GTCP331-200ER APU Engine Manual - Inspection and Condition Sheet

GEARBOX MODULE
60-49-26-01-00 ICS

DISTRIBUTION: 551

ENGINE S/N _____ VADE NO: _____ CUSTOMER: _____

MODULE ORDER NO AV534 MODULE S/N P1536 MODULE. A

REASON FOR REMOVAL _____

COMMENTS _____

DISPOSITION CODES		
	E =	PART MEETS DETAIL PART EID REQUIREMENTS (ZERO TIME SINCE DETAIL PART INSPECTION)
	A =	EXPOSED AREA OF PART MEETS VISUAL REQUIREMENTS OF APPROPRIATE EID (CONTINUED TIME SINCE DETAIL PARTS INSPECTION)
	C =	PART ROUTED OR CORRECTIVE ACTION TAKEN
	ATA# S/L-SEQ	EID NUMBER [49 precedes numbers shown (49) 31 -XX] SECTION / LIST - SEQUENCE NUMBER
	OFF LOG FUNC#	STAMP TO INDICATE PART OFF-LOG FROM MODULE FUNCTION NUMBER

NOTE . Sign off appropriate disposition code More than one code may be signed

NOTE Indicate condition of unserviceable parts regardless of disposition

NOTE To clear parts not exposed, draw a line through the complete entry and stamp in the left *margin*

NOTE If part is routed on an R&R Tag, it is mandatory to stamp the applicable "E" or "A" Block and write "R&R" in the "C" Block. Then complete the appropriate computer transaction.

NOTE Parts having no specific EID will be visually inspected per 60-49-00-00 Book "0", Introduction, Section 4, A4.

Module Inspection Guide:

I _____ (1) Module inspected and found serviceable per EID 60-49-26-01-00 [ZERO Time Since Module Inspection (TSMI)] No parts removed from module. No additional sign-off required

I 0C69087 (2) Module partially or completely disassembled Removed parts and / or exposed areas inspected per appropriate EID (ZERO Time Since Detail Parts Inspection - TSDPI)

Control Date 20070329

ENGINE S/N: _____ ORDER NO AV534

E	A	C	ITEM NOMENCLATURE	ATA # S/L SEQ	OFFLOG FUNC #	ROUTING / CONDITION
		QC69087	BEARING, FAN IDLER	26-00-01	XXX	4 comp
				01-410	5642	
		QC69087	BEARING, OIL PUMP	26-00-01	XXX	"
				01-420	5643	
		QC69087	BEARING, HI SPEED PINION	26-00-01	XXX	"
				01-430	5644	
		QC69087	BEARING, GENERATOR IDLER	26-00-01	XXX	"
				01-440	5645	
		QC69087	BEARING, GENERATOR	26-00-01	XXX	"
				01-450	5646	
		QC69087	BEARING, IDLER	26-00-01	XXX	"
				01-460	5647	
		QC69087	BEARING, OUTER RACE	26-00-01	XXX	"
				01-460	9267	
QC69087			HOUSING, ACCY GEARBOX	26-02-00		
				01-300	0987	
QC69087			GEAR ASSY, OIL PUMP	26-03-00	XXX	
				01-120	2233	
QC69087			GEAR, GENERATOR IDLE	26-04-00	XXX	
				01-160	2230	
		QC69087	GEAR ASSY, MATCHED SPUR	26-05-00	XXX	rub
				01-130	2229	
QC69087			GEARSHAFT, GENERATOR DRIVE	26-06-00	XXX	
				01-200	2231	
QC69087			GEAR, FAN IDLER	26-08-00	XXX	
				01-140	2237	
QC69087			TUBE, JET ASSY	26-10-00	XXX	
				01-250	5637	
		QC69087	TUBE	26-11-00	XXX	rub
				01-080	5628	
QC69087			TUBE	26-11-00	XXX	
				01-240	5636	
QC69087			TUBE	26-11-00	XXX	
				01-070	5627	
QC69087			TUBE	26-12-00	XXX	
				01-260	5638	

ENGINE S/N _____ ORDER NO Av534

E	A	C	ITEM NOMENCLATURE	ATA # S/L SEQ	OFFLOG FUNC #	ROUTING / CONDITION
QC69087			OIL JET	26-13-00 01-050	XXX 5625	
QC69087			OIL JET	26-13-00 01-040	XXX 5624	
QC69087			OIL JET	26-13-00 01-060	XXX 5626	
QC69087			TRANSFER TUBE	26-14-00 01-210	XXX 5633	
QC69087			GEAR, HI SPEED PINION	26-16-00 01-150	XXX 2232	
QC69087			HOUSING, FILLER	26-21-00 01-020	XXX 5622	
			HOUSING, GEN SCVG PUMP	90-02-02 60-010	XXX 5789	
			GEAR, SPUR	90-02-03 60-030	XXX 5791	
	QC69087		GEARSHAFT	90-02-03 60-040	XXX 5792	
			GEARSHAFT	90-02-03 60-050	XXX 5793	
			SEAL ASSY, ENCASED	90-02-02 60-020	XXX 5790	
		QC69087	BEARING, STARTER GEAR	26-00-01 05-020	XXX 5641	Scrap
		QC69087	BEARING, INNER RACE	26-00-01 05-030	XXX 9266	"
		QC69087	BEARING, BALL	26-00-01 05-060	XXX 5649	"
		QC69087	BEARING, SPLINED SHAFT	26-00-01 05-090	XXX 5648	"
		QC69087	GEAR, STARTER DRIVE	26-07-00 05-040	XXX 5634	damage
		QC69087	CLUTCH, ONE WAY	26-07-01 05-080	XXX 5640	wear
QC69087			PLUG, STARTER DRIVE	26-07-02 05-050	XXX 5639	

ENGINE S/N _____ ORDER NO AV534

E	A	C	ITEM NOMENCLATURE	ATA # / S/L SEQ	OFFLOG / FUNC #	ROUTING / CONDITION
		QC69087	SHAFT, SPLINED	26-07-03	XXX	
				05-070	5635	
QC69087			ADAPTER, CLUTCH	26-07-04	XXX	
				05-010	5706	
		QC69087	TENSION WASHER	BOOK 0	XXX	SCRAP 100%
				05-110	5631	
					XXX	
					XXX	
					XXX	
					XXX	
					XXX	
					XXX	
					XXX	

I QC69087 (3) Check Inspection and Condition Sheet for completion

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003589293V14 - 5006480606-3070932-1

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9704118620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	GEAR ASSY	3860182-2	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS GEAR ASSY IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to	19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13		
☒ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service		
15 Authorized Signature Cornel Bonchis	16 Approval/Authorization No **ODA-602216-NM**	20 Authorized Signature	21 Approval/Certificate No
17 Name (Typed or Printed) **Cornel Bonchis**	18 Date (m d y) **JUL 23 2013**	22 Name (Typed or Printed)	23 Date (m d y)

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003584107Y14 5006480606-3085170-1

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9704118620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	GEAR, STARTER	3860168-2	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS GEAR, STARTER IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to	19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13
☒ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Florie McCrone	**ODA-602216-NM**		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Florie McCrone	**JUL 19 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003569746Y14 5006480606-3070932-4

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9704118620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	CLUTCH, ONE WAY	3611304-1	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS CLUTCH, ONE WAY IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Margo Marion	**ODA-602216-NM**		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Margo Marion	**JUL 15 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003569745Y14 5006480606-3070932-2

4 Organization Name and Address	Production Approval		5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9704118620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	SHAFT ASSY SPLN	3868023-1	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS SHAFT ASSY SPLN IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Margo Marion	**ODA-602216-NM**		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Margo Marion	**JUL 15 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003569747Y14 5006480606-3070932-5

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9704118620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	TUBE DISCH GEN OIL	3613699-1	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS TUBE DISCH GEN OIL IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Margo Marion	**ODA-602216-NM**		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Margo Marion	**JUL 15 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003558443Y15 314921823

4 Organization Name and Address		5 Work Order/Contract/Invoice Number
Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	Repair Station ZN3R030M	N/A 314872542 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	PUMP ASSEMBLY GENERATOR SCAVENGE	3880200-6	N/A	1	N/A	OVERHAULED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH
CMM 49-27-15 Rev 3, MAR/15/1995

Additional Information

Alternate SN outgoing 974720100075

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to		19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in condition for safe operation ☐ Non-approved design data specified in Block 13		Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature Renoo Ziegler	21 Approval/Certificate No **ZN3R030M**
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed) **Renoo Ziegler**	23 Date (m d y) **JUL 09 2013**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1 Approving National Aviation Authority/Country FAA/United States	2.	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 314921823-001

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9704118620

6 Item	7 Description	8 Part Number	9. Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	PUMP ASSEMBLY GENERATOR SCAVENGE	3880200-6	N/A	1	N/A	Inspected

13 Remarks

Return to service. Items provided by the customer have been serviced in accordance with 49-23-49 , Rev 36, dated 3/31/2011

UAL 60-49-20-00/AR03

INSPECTED IN OVERHAULED CONDITION, REF FORM 8130 TRACKING NUMBER 314921823

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14. Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) TERRY E COULTER	23 Date (m/d/y) July 23, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

WORK CENTER: 551

SERIAL NBR	ET	MT	NAME	PWR RTG	CUST
61965		V	APU331	200E	UA

ORDER NUMBER
V534

COAS FOR MODULE TYPE A - SERIAL NUMBER P1536 MODULE NAME: GEARBOX ASSMBLY WORK CENTER: 551

COA NUMBER	COA CAT	MODULE/ FUNC NBR	UNIT SERIAL	UNIT COA STATUS	ISS	COMP	COA TITLE	COMPLETION DATE
A-0004-1	B	A	P1536	COMPLETED			331-200 SPUR FAN GEAR - RPL	07/02/12

*** END OF REPORT ***

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, LOAD COMPRESSOR

REV. 4/26/07

FV535	62486	V6000.0
ORDER NO	ENGINE NO	JOB NO

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT

214386	V0002.0	- NON-ROUTINE ACCOUNTABILITY
214386	V6010.0	DRIVEN COMPRESSOR - DISASSEMBLE
214386	V6020.0	DRIVEN COMPRESSOR - CLEANING
214386	V6040.0	DRIVEN COMPRESSOR - ASSEMBLY

NOTE - INCLUDE 60-49-25-00-00 ICS - LOAD COMPRESSOR/IGV MODULE 'FV' WITH LOG PACKAGE.

1

Job Instruction Card

331-200 COVER PAGE, LOAD COMPRESSOR

REV. 4/26/07

FV535	62486	V6000.0
ORDER NO	ENGINE NO	JOB NO

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

2 NO COA'S 214386

214386

214386

214386

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

ASSEMBLY S/N: P-1985 214386

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

SIGNATURE: 214386 DATE: 8/5/13

END JOB V6000.0 REVISED 4/26/07

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 DRIVEN COMPRESSOR - DISASSEMBLE

REV. 4/2/93

FV535	62486	V6010.0
ORDER NO	ENGINE NO.	JOB NO

ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-25-01/SP02.

M 7870 1. REMOVE DRIVEN COMPRESSOR COMPONENTS.

M 7870 2. REMOVE IGV ACTUATOR.

M 7870 3. REMOVE IGV MOUNT AND BELLCRANK.

M 7870 4. REMOVE INLET HOUSING AND IGV ASSEMBLY.

M 7870 5. REMOVE INLET BEARING HOUSING ASSEMBLY.

M 7870 6. REMOVE BACKSHROUD.

M 7870 7. REMOVE SEAL CARRIER.

M 7870 8. DISASSEMBLE ROTATING GROUP.

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 DRIVEN COMPRESSOR - DISASSEMBLE

REV: 4/2/93

FV535	62486	V6010.0
ORDER NO	ENGINE NO	JOB NO

END JOB V6010.0 REVISED 4/2/93

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 DRIVEN COMPRESSOR - CLEANING

REV. 4/27/01

FV535	62486	V6020.0
ORDER NO.	ENGINE NO	JOB NO

1. U 7926 UTILITY MECHANIC (U) CLEAN LOAD COMPRESSOR PARTS PER GN 4-0-3-20 PROCESS 01 (SOLVENT CLEAN), AND/OR GN 4-0-3-20 PROCESS 2C.

   NOTE - DO NOT CLEAN IGV ASSEMBLY. NO CLEANING PERMITTED UNLESS DISASSEMBLED.

371TL
L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 DRIVEN COMPRESSOR - CLEANING

REV. 4/27/01

FV535	62486	V6020.0
ORDER NO	ENGINE NO	JOB NO.

END JOB V6020.0 REVISED 4/27/01

37TTL

551

_____L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 DRIVEN COMPRESSOR - ASSEMBLY

REV. 7/3/12

FV535	62486	V6040.0
ORDER NO	ENGINE NO	JOB NO

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-25-01

ASSIGNED TO ENGINE ORDER NUMBER V539 214386

M 7870 1. ZERO FACE TIP CLEARANCE CHECK AND ASSEMBLE ROTATING GROUP.

11 RECORD TIP CLEARANCE

M 7870 2. STRETCH SHAFT.

1.240 DIMENSION A

-1.229 DIMENSION B

=0.011 SHAFT STRECH (0.011 - 0.012)

----- CONTINUOUS AIRWORTHINESS ITEM -----LOAD COMPRESSER TIESHAFT INSTALLATION - CHECK AND VERIFY STRETCH MEASUREMENT.

M 7870 3. CHECK ROTATING GROUP RUNOUT. RECORD COMPRESSOR ROTOR TIP RUNOUT.

RUNOUT 0.002 (0.003 INCH MAX)

M7870 4. INSTALL SEAL IN INLET HOUSING.

M 7870 5. ASSEMBLE BEARING AND INLET BEARING HOUSING. MARK WHICH BEARING INSTALLED.

7870 A. CONFIGURATION "A" TIMKEN BEARING.

M 7870 6. INSTALL IGV CONTROL ROD.

M 7870 7. INSTALL IGV TO SCROLL HOUSING AND INLET HOUSING.

M 7870 8. INSTALL IGV MOUNT AND BELLCRANK.

3717L

551

L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 DRIVEN COMPRESSOR - ASSEMBLY

REV. 7/3/12

FV535	62486	V6040.0
ORDER NO.	ENGINE NO	JOB NO.

M 7870 9. INSTALL IGV ACTUATOR AND COMPONENTS

M 7870 10. ADJUST INLET GUIDE VANES.

----- CONTINUOUS AIRWORTHINESS ITEM -----IGV SYSTEM INSTALLATION - CHECK RIGGING OF LOAD COMPRESSOR IGV'S, IGV ASSEMBLY, AND IGV ACTUATOR FOR ITEMS 6-10. DUPLICATE SIGN-OFF ON JOB V1040.0

M 7870 11. CHECK DIFFUSER TO IMPELLER VOLUTE FOR NEGATIVE STEP.

371TL LM 7870 12. DETERMINE SHIM THICKNESS REQUIREMENTS BETWEEN COMPRESSOR ROTOR AND SCROLL HOUSING.

0.011 DIMENSION A

0.100 TRIAL SHIM THICKNESS

+0.025 DIMENSION B (0.036 - DIM. A = DIM. B)

=0.125

+1.377 DIMENSION 3A

=1.502

-1.450 DIMENSION 3B

=0.052 REQUIRED SHIM THICKNESS

M 7870 A. LUBRICATE NEW PACKING (85) WITH OIL(OIL 2389) AND INSTALL ON INLET BEARING HOUSING ASSEMBLY. (FIGURE 714).

371TL

ALL ITEMS ARE PROPERLY SIGNED OFF.

331-200 DRIVEN COMPRESSOR - ASSEMBLY

REV. 7/3/12

FV535	62486	V6040.0
ORDER NO	ENGINE NO.	JOB NO

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

1

OC13611 I B. **NOTE** - *VERIFY AREA IS INTACT AND FREE OF DEFECTS AND ALL DEBRIS.*
REFERENCE PAOG 45-55-30-06

M 7870 13. INSTALL ROTATING GROUP.
VERIFY AND RECORD TIP CLEARANCE (0.036 +/- .000-.002)
0.036 RECORD TIP CLEARANCE

M 7870 14. DETERMINE DIFFUSER SPACING SHIM REQUIREMENTS.

0.319 DIMENSION 4C

-0.288 DIMENSION 4D

=0.031 REQUIRED SHIM THICKNESS (+/- 0.001)

M 7870 15. DETERMINE CLEARANCE BETWEEN BEARING CARRIER AND BACKSHROUD.

0.904 DIMENSION 5A

-0.212 DIMENSION 5B

=0.692

- 0.640 INCH

=0.052 REQUIRED SHIM THICKNESS (+/- 0.005)

M 7870 16. ASSEMBLE DRIVEN COMPRESSOR. (SEE FIGURE 716)

M 7870 17. ASSEMBLE DRIVEN COMPRESSOR. (SEE FIGURE 717)

M 7870 18. ASSEMBLE DRIVEN COMPRESSOR. (SEE FIGURE 718)

M 7870 19. INSTALL INLET TEMPERATURE SENSOR (CIT PROBE).

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 DRIVEN COMPRESSOR - ASSEMBLY

REV. 7/3/12

FV535	62486	V6040.0
ORDER NO	ENGINE NO	JOB NO

END JOB V6040.0 REVISED 7/3/12

6C1S2J

371TL

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

UNITED AIRLINES

GTCP331-200ER APU Engine Manual - Inspection and Condition Sheet

LOAD COMPRESSOR MODULE
60-49-25-00-00 ICS

DISTRIBUTION 551

ENGINE S/N 62486 VADE NO: _____ CUSTOMER: UA

MODULE ORDER NO FV535 MODULE S/N P-1985 MODULE F

REASON FOR REMOVAL Auto Shutdown

COMMENTS _____

DISPOSITION CODES:		
	E =	PART MEETS DETAIL PART EID REQUIREMENTS (ZERO TIME SINCE DETAIL PART INSPECTION)
	A =	EXPOSED AREA OF PART MEETS VISUAL REQUIREMENTS OF APPROPRIATE EID (CONTINUED TIME SINCE DETAIL PARTS INSPECTION)
	C =	PART ROUTED OR CORRECTIVE ACTION TAKEN
	ATA# S/L-SEQ	EID NUMBER [49 precedes numbers shown (49) 31 -XX] SECTION / LIST - SEQUENCE NUMBER
	OFF LOG FUNC#	STAMP TO INDICATE PART OFF-LOG FROM MODULE FUNCTION NUMBER

NOTE · Sign off appropriate disposition code More than one code may be signed

NOTE Indicate condition of unserviceable parts regardless of disposition.

NOTE To clear parts not exposed, draw a line through the complete entry and stamp in the left margin

NOTE · If part is routed on an R&R Tag, it is mandatory to stamp the applicable "E" or "A" Block and write "R&R" in the "C" Block Then complete the appropriate computer transaction

NOTE Parts having no specific EID will be visually inspected per 60-49-00-00 Book "0", Introduction, Section 4, A4

Module Inspection Guide

I _____ (1) Module inspected and found serviceable per EID 60-49-25-00-00 [ZERO Time Since Module Inspection (TSMI)] No parts removed from module No additional sign-off required

QC18617

I _____ (2) Module partially or completely disassembled Removed parts and / or exposed areas inspected per appropriate EID (ZERO Time Since Detail Parts Inspection - TSDPI)

Control Date 20070329

ENGINE S/N. 62486 ORDER NO P535

E	A	C	ITEM NOMENCLATURE	ATA # S/L SEQ	OFFLOG FUNC #	ROUTING / CONDITION
		QC18617	BEARING, THRUST	20-01-01	QC18617	scrap
				18-195	5760	
		QC18617	BEARING, ROLLER	20-01-01	QC18617	
				18-320	5746	
		QC18617	CARBON SEAL ASSY 2 EA	20-02-00	XXX	
				18-275	14367	
		QC18617	ROTOR, CARBON SEAL 2 EA	22-22-00	XXX	
				18-280	5747	
QC18617			RETAINER, BEARING	22-02-00	XXX	
				18-070	2276	
		QC18617	ASSEMBLY, IGV	25-02-00	QC18617	
				25-000	0988 I	dissy
		QC18617	HOUSING, BEARING	25-03-00	XXX	
				18-190	0992	worn osv
		QC7387	COUPLING & SEAL	25-04-00	XXX	
				18-160	2251	lot# 279962
QC18617			SOUND ATTENUATOR	25-05-00	XXX	
				18-095	2275	
		QC18617	INSULATOR SHIELD	25-07-01	XXX	
				18-015	1227	delam osv
		QC18617	BACKSHROUD ASSY	25-08-00	XXX	
				18-010	5680	M.S. bubbling osv
		QC7387	SCROLL HOUSING	25-09-00	XXX	
				18-060	2243	lot# 301100
		QC18617	BELLCRANK	25-10-00	XXX	
				18-120	2239	552 LN 313166
		QC18617	MOUNT, IGV ACTUATOR	25-11-00	XXX	
				18-130	2274	bushing osv
QC18617			DIFFUSER	25-13-00	XXX	
				18-050	0990	
QC18617			HOUSING, INLET	25-15-00	XXX	
				18-100	2272	
		QC7387	IMPELLER	25-19-00	QC7387	
				18-150	0989	lot# 318716
QC18617			SHAFT	25-20-00	XXX	
				18-200	0991	

ENGINE S/N 62486 ORDER NO P535

E	A	C	ITEM NOMENCLATURE	ATA # S/L SEQ	OFFLOG FUNC #	ROUTING / CONDITION
		QC18617	CARRIER, SEAL	25-21-00	XXX	WORN OSV
				18-220	2247	
QC18617			CARRIER, SEAL	25-22-00	XXX	
				18-210	2248	
QC18617			SEAL ROTOR	25-23-00	XXX	
				18-170	5687	
QC18617			CARRIER, BEARING	25-32-00	XXX	
				18-040	2271	
QC18617			COVER, ACTUATOR MOUNT	25-38-00	XXX	
				50-150	5754	
QC18617			BRACKET, IGV ACTUATOR	25-39-00	XXX	
				50-160	5755	

1 Approving National Aviation Authority/Country	2	3. Form Tracking Number
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130–3, AIRWORTHINESS APPROVAL TAG**	000208366

4 Organization Name and Address		5. Work Order/Contract/Invoice Number
HONEYWELL INTERNATIONAL INC 111 SOUTH 34th STREET PHOENIX AZ 85072 PRODUCTION APPROVAL PT1222NM	B/E AEROSPACE CONSUMABLES MANAGEMENT 480 N 54TH STREET, SUITE 8 CHANDLER, AZ 85226	7TB402 001 Page 4 of 4

6. Item	7 Description	8. Part Number:	9. Eligibility: *	10 Quantity:	11 Serial/Batch Number	12 Status/Work
001	BEARING	3613827-1	N/A		MS11-151725-09327 MS11-151725-09334 MS11-151725-09335 Expires 06/20/13	NEW

13 Remarks.

AIRWORTHINESS APPROVAL
DIRECT SHIPMENT AUTHORIZATION
Customer P O # 26511080006

This BEARING is a subcomponent of a TSO authorization

14. Certifies the items identified above were manufactured in conformity to

☒ **Approved design data and are in a condition for safe operation.**
☐ **Non-approved design data specified in Block 13.**

19 ☐ **14 CFR 43 9 Return to Service** ☐ **Other regulation specified in Block 13**

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature	16 Approval/Authorization No	20 Authorized Signature:	21 Approval/Certificate No
	ODA-602216-NM		
17. Name (Typed or Printed)*	**18 Date (m d y)***	**22. Name (Typed or Printed)***	**23 Date (m d y).**
Louis Di Camillo	DEC 22 2011		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

*Installer must cross-check eligibility with applicable technical data.

1 Approving National Aviation Authority/Country	2.	3 Form Tracking Number
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130–3, AIRWORTHINESS APPROVAL TAG**	000323088

4 Organization Name and Address		5. Work Order/Contract/Invoice Number
Honeywell International Inc 111 S 34th Street Phoenix, Arizona 85072	B/E AEROSPACE CONSUMABLES MANAGEMENT 480 N 54TH STREET, SUITE 8 CHANDLER, AZ 85226	8K2146 001 Page 1 of 7
PRODUCTION APPROVAL PT1222NM		

6. Item:	7. Description	8. Part Number:	9. Eligibility *	10. Quantity:	11. Serial/Batch Number.	12. Status/Work.
001	BEARING	3822099-1	N/A	50 EA	Lot# 2013C00740 Mlot# MSFS530 SN13-162255-06205 SN13-162255-06211 SN13-162255-06214 SN13-162255-06215 SN13-162255-06216 SN13-162255-06217	NEW

13 Remarks:

AIRWORTHINESS APPROVAL
DIRECT SHIPMENT AUTHORIZATION
Customer P O # 26504620046

This BEARING is a subcomponent of a TSO authorization

14 Certifies the items identified above were manufactured in conformity to:

☒ **Approved design data and are in a condition for safe operation**
☐ **Non-approved design data specified in Block 13**

19 ☐ **14 CFR 43.9 Return to Service** ☐ **Other regulation specified in Block 13**

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No.:	20. Authorized Signature	21 Approval/Certificate No..
	ODA-602216-NM		
17 Name (Typed or Printed)	**18. Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y).**
Syed Hossain	MAY 22 2013		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

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1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003599623Y14 5006548393-3097597-1

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9712088620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	HOUSING ASSEMBLY, BEARING INLET, DRIVEN	3810187-2	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS HOUSING ASSEMBLY, BEARING INLET, DRIVEN IS A SUBCOMPONENT OF A
TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No .
Florie McCrone	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Florie McCrone	**JUL 27 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003581700Y14 5006518140-3083774-3

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9701488620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	CARRIER SEAL	3826125-1	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS CARRIER SEAL IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to	19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13
☒ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Stephen J. Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J. Robinson	**JUL 19 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

P.O.# BN0090

AUTHORIZED RELEASE CERTIFICATE

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States		L0500647403

4 Organization Name and Address		5 Work Order/Contract/Invoice Number
Honeywell International, Inc. 1944 E. Sky Harbor Circle Phoenix, AZ 85034	PRODUCTION APPROVAL PT1222NM	HH8367-001 BC0007 001

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch No	12 Status / Work
001	SHIELD INSUL	3826680-2	N/A TSO	000006	N/A. NOTE: (All serialization not referenced here is not required or traceable by HONEYWELL INC. Reference FAA ORDER 8130.21d)	NEW

13 Remarks

THIS FORM IS ISSUED AT 1944 E. SKY HARBOR CIRCLE PHOENIX, AZ 85034 AS AUTHORIZED BY THE PRODUCTION APPROVAL HOLDER AIRWORTHINESS APPROVAL - PARTS.
THE PART SHIPPED UNDER THIS APPROVAL IS A SUBCOMPONENT OF GTCP331-49-7056

14 Certifies the items identified above were manufactured in conformity to

- [X] Approved design data and are in a condition for safe operation
- [ ] Non-approved design data specified in Block 13

19 [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Robert Page	ODARF602216NM		
17 Name (Typed or Printed)	**18 Date (m/d/y)**	**22 Name (Typed or Printed)**	**23 Date (m/d/y)**
ROBERT PAGE	APR/21/2005		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

*Installer must cross-check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003581702Y14 5006518140-3083774-5

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9701488620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	BACK SHROUD ASSY	3826141-7	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS BACK SHROUD ASSY IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Stephen J. Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J. Robinson	**JUL 19 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certificaton issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003581599Y14 5006518140-3083774-2

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9701488620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	SCROLL HOUSING ASSEMBLY, DRIVEN COMPRESS	3826140-5	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS SCROLL HOUSING ASSEMBLY, DRIVEN COMPRESS IS A SUBCOMPONENT OF A
TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to

☒ Approved design data and are in a condition for safe operation

☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identfied in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
S Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J. Robinson	**JUL 19 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/Installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2. AUTHORIZED RELEASE CERTIFICATE	3 Form Tracking Number
FAA/United States	**FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003581701Y14 5006518140-3083774-4

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9701488620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	MOUNT	3826154-1	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS MOUNT IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Stephen J. Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J. Robinson	**JUL 19 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/Installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

WORK CENTER: 551

SERIAL NBR	ET	MT	NAME	PWR RTG	CUST
62486		V	APU331	200E	UA

ORDER NUMBER
V535

COAS FOR MODULE TYPE F - SERIAL NUMBER P-1986 MODULE NAME: DRIVEN COMP SE WORK CENTER: 551

COA NUMBER	COA CAT	MODULE/ FUNC NBR	UNIT SERIAL	UNIT COA STATUS	ISS	COMP	COA TITLE	COMPLETION DATE

*** NO COAS SCHEDULED FOR THIS UNIT ***

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, IGV ASSEMBLY

REV. 4/26/07

ORDER NO	ENGINE NO	JOB NO
IV535	62486	V6005.0

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT

V0002.0 - NON-ROUTINE ACCOUNTABILITY
V6015.0 IGV ASSEMBLY-DISASSEMBLE
V6025.0 IGV ASSEMBLY - CLEANING
V6045.0 IGV ASSEMBLY-ASSEMBLE
NOTE - INCLUDE 60-49-25-02-00 ICS - VARIABLE INLET GUIDE VANE MODULE WITH LOG PACKAGE.

Job Instruction Card

331-200 COVER PAGE, IGV ASSEMBLY

REV. 4/26/07

IV535	62486	V6005.0
ORDER NO	ENGINE NO.	JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

#2 NO COA'S 214386

214386

214386

214386

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

ASSEMBLY S/N: NONE 214386

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

SIGNATURE: 214386 DATE: 7/24/13

END JOB V6005.0 REVISED 4/26/07

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 IGV ASSEMBLY-DISASSEMBLE

REV. 1/19/01

IV535	62486	V6015.0
ORDER NO	ENGINE NO.	JOB NO

M 7870 1. REMOVE CLEVIS FROM GEARSHAFT.

M 7870 2. REMOVE COVER, WASHERS, RING GEAR ASSEMBLY AND REMOVE GEARSHAFT, SPRING WASHER AND WASHER.

M 7870 3. REMOVE WASHERS, SPRING WASHERS AND (27) GEAR SECTORS. REMOVE BEARINGS, INLET GUIDE VANES, PINS AND BAFFLES. REMOVE AND DISCARD PACKING.

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 IGV ASSEMBLY-DISASSEMBLE

REV. 1/19/01

IV535	62486	V6015.0
ORDER NO	ENGINE NO	JOB NO

END JOB V6015.0 REVISED 1/19/01

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 IGV ASSEMBLY - CLEANING

REV. 1/19/01

IV535	62486	V6025.0
ORDER NO	ENGINE NO	JOB NO

1. U 7825 UTILITY MECHANIC (U) OLEUM WASH IGV ASSEMBLY PARTS PER GN 4-0-3-20 PROCESS 01.

371TL
L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 IGV ASSEMBLY - CLEANING

REV. 1/19/01

IV535	62486	V6025.0
ORDER NO	ENGINE NO	JOB NO.

END JOB V6025.0 REVISED 1/19/01

371TL
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551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 IGV ASSEMBLY-ASSEMBLE

REV: 2/16/12

IV535	62486	V6045.0
ORDER NO	ENGINE NO	JOB NO

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-25-02/SP01.

M 7989 1. INSTALL IGV INLET VANES.

M 7989 2. INSTALL IGV BEARINGS.

M 7989 3. CHECK FOR PREVIOUS ACCOMPLISHMENT AND CIRCLE A OR B BELOW.

A. RING GEAR AND/OR SECTOR GEARS HAVE DRY FILM LUBRICANT APPLIED. NO FURTHER ACTION REQUIRED.

B. DRY FILM LUBRICANT IS MISSING. PROCEED AS FOLLOWS: CLEAN RING GEAR AND/OR SECTOR GEARS WITH SOL3000-5-1. APPLY LUB4500-1SC AND AIR DRY FOR 30 MINUTES.

M 7989 4. INSTALL IGV ASSEMBLY ON PLYWOOD STORAGE PLATE.

M 7989 5. INSTALL IGV RING GEAR.

M 7989 6. INSTALL IGV GEARSHAFT AND IGV SECTOR GEARS.

M 7989 7. INSTALL COVER ASSEMBLY.

M 7989 8. INSTALL CLEVIS.

075564 IM 7989 9. VERIFY FREE AND SMOOTH IGV ACTUATION.

RECORD ACTUATION FORCE 3 lbs

NOTE - *VERIFY AREA IS INTACT AND FREE OF DEFECTS AND ALL DEBRIS.*
REFERENCE PAOG 45-55-30-06

371TL L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 IGV ASSEMBLY-ASSEMBLE

REV. 2/16/12

IV535	62486	V6045.0
ORDER NO	ENGINE NO	JOB NO

----- CONTINUOUS AIRWORTHINESS ITEM -----IGV SYSTEM INSTALLATION - CHECK RIGGING OF IGV ASSEMBLY ITEMS 5-8

M 7989 10. STORE IGV ASSEMBLY IN A CLEAN PLASTIC BAG.

END JOB V6045.0 REVISED 2/16/12

371TL

551

_____L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

UNITED AIRLINES

GTCP331-200ER APU Engine Manual - Inspection and Condition Sheet

VARIABLE INLET GUIDE VANE (IGV) MODULE
60-49-25-02-00 ICS

DISTRIBUTION 551

ENGINE S/N 62486 VADE NO. 2149386 CUSTOMER UA

MODULE ORDER NO IV5365 MODULE S/N _____ MODULE I

REASON FOR REMOVAL Auto shutdown

COMMENTS _____

DISPOSITION CODES		
	E =	PART MEETS DETAIL PART EID REQUIREMENTS (ZERO TIME SINCE DETAIL PART INSPECTION)
	A =	EXPOSED AREA OF PART MEETS VISUAL REQUIREMENTS OF APPROPRIATE EID (CONTINUED TIME SINCE DETAIL PARTS INSPECTION)
	C =	PART ROUTED OR CORRECTIVE ACTION TAKEN
	ATA# S/L-SEQ	EID NUMBER [49 precedes numbers shown (49) 31 -XX] SECTION / LIST - SEQUENCE NUMBER
	OFF LOG FUNC#	STAMP TO INDICATE PART OFF-LOG FROM MODULE FUNCTION NUMBER

NOTE Sign off appropriate disposition code More than one code may be signed

NOTE Indicate condition of unserviceable parts regardless of disposition

NOTE To clear parts not exposed, draw a line through the complete entry and stamp in the left margin

NOTE If part is routed on an R&R Tag, it is mandatory to stamp the applicable "E" or "A" Block and write "R&R" in the "C" Block Then complete the appropriate computer transaction

NOTE Parts having no specific EID will be visually inspected per 60-49-00-00 Book "0", Introduction, Section 4, A4

Module Inspection Guide

I _____ (1) Module inspected and found serviceable per EID 60-49-25-02-00 [ZERO Time Since Module Inspection (TSMI)] No parts removed from module No additional sign-off required

QC18617

I _____ (2) Module partially or completely disassembled. Removed parts and / or exposed areas inspected per appropriate EID (ZERO Time Since Detail Parts Inspection - TSDPI)

Control Date 20070329

ENGINE S/N 62486 ORDER NO V536

E	A	C	ITEM NOMENCLATURE	ATA # / S/L SEQ	OFFLOG / FUNC #	ROUTING / CONDITION
		QC18617	HOUSING, IGV	25-02-01	XXX	552
				25-010	2245	
		QC18617	COVER, IGV	25-02-02	XXX	552
				25-020	2244	
QC18617		QC18617	RING GEAR	25-02-03	XXX	ok
				25-130	2273	
QC18617			GEAR, SECTOR 27 EA	25-02-04	XXX	
				25-110	5704	
QC18617			GEARSHAFT, IGV	25-02-05	XXX	
				25-190	5709	
QC18617			VANE, INLET 23 EA	25-02-06	XXX	
				25-030	9102	
		QC18617	VANE, MASTER	25-02-06	XXX	missing
				25-040	9103	
QC18617			VANE, SLOTTED 2 EA	25-02-06	XXX	
				25-070	9104	
QC18617			VANE, NOTCHED 2 EA	25-02-06	XXX	
				25-080	2282	
		QC18617	BAFFLE, 2 EA	25-02-06	XXX	1ea missing
				25-090	5703	
QC18617		QC18617	PIN, 2EA	25-02-06	XXX	
				IPC	5701	

I QC18617 (3) Check Inspection and Condition Sheet for completion

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003581583Y14 5006519540-3083772-1

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9701498620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	BAFFLE	3810230-1	N/A	2	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS BAFFLE IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to

☒ Approved design data and are in a condition for safe operation

☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Stephen J Robinson	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J Robinson	**JUL 19 2013**		

User / Installer Responsibilities

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* Installer must cross check eligibility with applicable technical data

0

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE ENGINE - BALANCE

REV. 4/1/96

214386 NV532 6/692

V000	~~00000~~	V8000.0
ORDER NO	ENGINE NO	JOB NO.

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT

214386 214386	V2101.0	IMPELLER - 1ST STAGE COMPRESSOR
214386	V2102.0	IMPELLER - 2ND STAGE COMPRESSOR
214386 214386	V2103.0	WHEEL ASSEMBLY-1ST STAGE TURBINE
214386 214386	V2104.0	WHEEL ASSEMBLY-2ND STAGE TURBINE
	V2105.0	WHEEL ASSEMBLY-3RD STAGE TURBINE
	V2106.0	COUPLING - CURVIC
	V3101.0	GEAR - MATCHED SET - SPUR
	V3102.0	ROTOR - COOLING FAN-SHROUDED-BALANCE
214386	V6101.0	IMPELLER - LOAD COMPRESSOR

0

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

214386

331-200 COVER PAGE ENGINE - BALANCE

REV. 4/1/96

214386 NV532 6/6/96

ORDER NO	ENGINE NO	JOB NO
~~V000~~	~~00000~~	V8000.0

#2 no cops 214386

214386

214386

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

SIGNATURE: 214386 DATE: 8/14/13

END JOB V8000.0 REVISED 4/1/96

0

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

214386 NV532 61246

331-200 IMPELLER - 1ST STAGE COMPRESSOR

REV. 5/23/94

~~N0000~~	~~00000~~	V2101.0
ORDER NO	ENGINE NO	JOB NO

M 7925 1. BALANCE PER SHOP PROCEDURE 49-22-10/SP01. DATE 7/23/2013

FINAL UNBALANCE - GRAMS OR OZ-INCH ANGLE

H PLANE - .00869 124°

J PLANE - .00852 43°

NOTE - LIST P/N AND S/N BELOW.

1ST STAGE IMPELLER P/N 3822067-2

1ST STAGE IMPELLER S/N 0365101491

~~M 7925~~ 2. BLEND PER SHOP PROCEDURE 49-22-10/SP01

371TL L 3. LEAD VERIFY BLENDING PER 49-22-10/SP01.

371TL L 4 LEAD FINAL CHECK.

NOTE - PUT THIS BALANCE JIC WITH PART IN CONTAINER AFTER COMPLETION. THIS JIC MUST BE ACCOUNTED FOR AND TURNED IN TO PRODUCTION CONTROL CENTER WHEN PART IS ON-LOGGED.

END JOB V2101.0 REVISED 5/23/94

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

****

UNITED AIRLINES
SAN FRANCISCO, CA

****

operator dav 07 23 13 08 45 AM

index balancing

file name : 331 C-1 IMP.
rotor : 0365101491
bal. speed: 1514. ↻/mn

run 6

plane 1	plane 2
8.69 moz	8.52 moz
at 124 deg	at 43 deg
in tol	in tol

index comp. AT E2

0

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

214386

331-200 WHEEL ASSEMBLY-1ST STAGE TURBINE

REV. 12/7/95

NV532 6146

~~NV000~~	~~00000~~	V2103.0
ORDER NO	ENGINE NO	JOB NO

M 7925 1 INSTALL BLADES AND TABLOCKS PER SHOP PROCEDURE 49-24-03/SP00.

M ~~7925~~ 2. BALANCE PER SHOP PROCEDURE 49-24-03/SP01 DATE 6/28/2013

FINAL UNBALANCE - GRAMS OR OZ-INCH ANGLE

A PLANE - .0086 257°

NOTE - LIST P/N AND S/N BELOW

1ST STAGE DISK P/N 3840019-1

1ST STAGE DISK S/N 0135703907

BLADE SET P/N 3840004-5

371TL L 3 ----- CONTINUOUS AIRWORTHINESS ITEM -----T1 TURBINE BLADE INSTALLATION - CHECK TABLOCK INSTALLATION PER SHOP PROCEDURE 49-24-03/SP00

No blending was needed 7925

371TL M X925 L 4. BLEND PER SHOP PROCEDURE 49-24-03/SP01.

371TL L 5. LEAD VERIFY BLENDING OF DISK PER 49-24-03/SP01.

6. LEAD FINAL CHECK

NOTE - PUT THIS BALANCE JIC WITH PART IN CONTAINER AFTER COMPLETION THIS JIC MUST BE ACCOUNTED FOR AND TURNED IN TO PRODUCTION CONTROL CENTER WHEN PART IS ON-LOGGED

END JOB V2103.0 REVISED 12/7/95

551

371TL L ALL ITEMS ARE PROPERLY SIGNED OFF

ENGINE MAINTENANCE DEPARTMENT

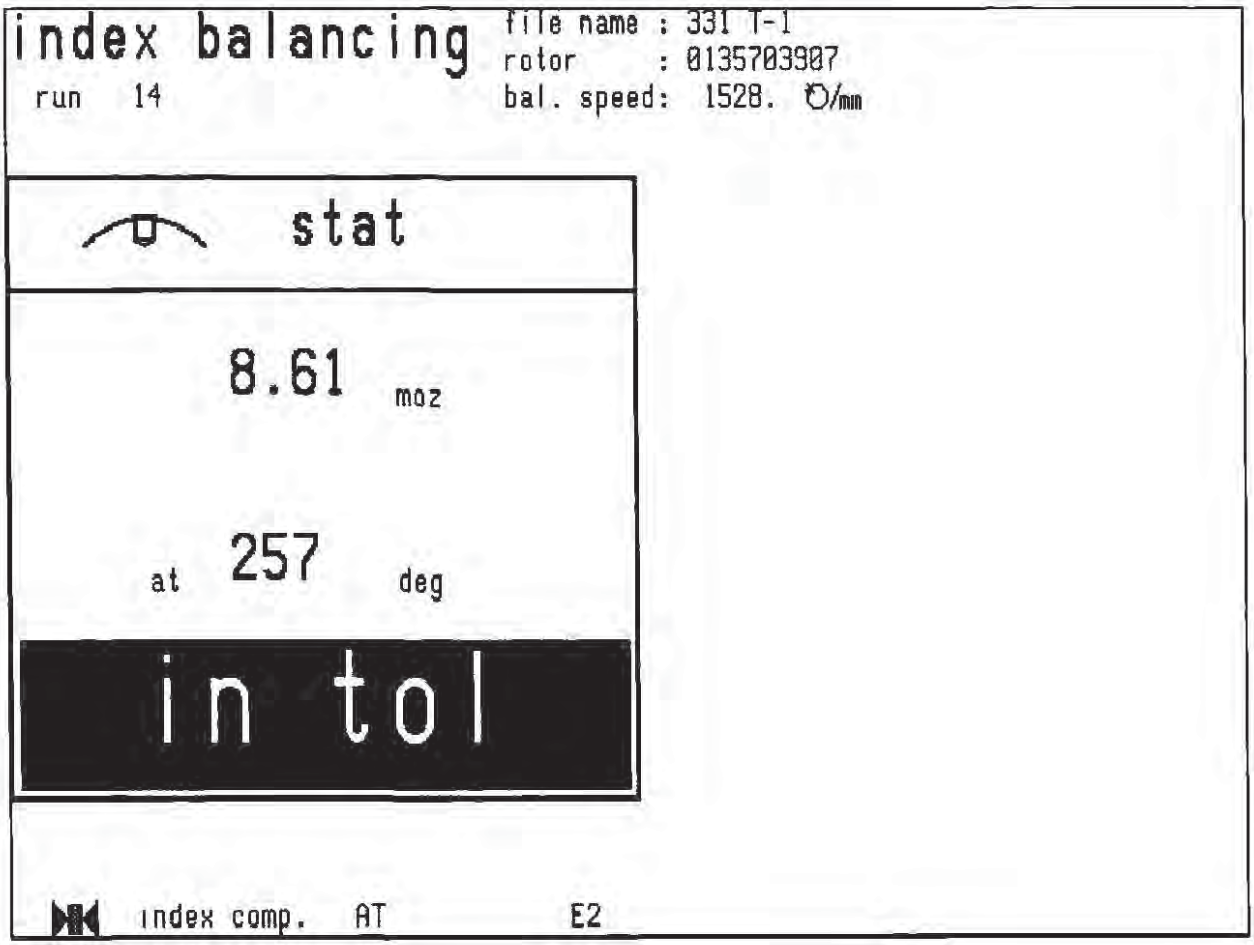
UNITED

****

UNITED AIRLINES
SAN FRANCISCO, CA

****

operator dav 06 28 13 07 44 AM



1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003519070Y14 5006416485-3034201-1

4 Organization Name and Address		Production Approval		5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072		PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9691388620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	BLADE TURBINE ROTOR, FIRST STAGE	3840004-5	N/A	36	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS BLADE TURBINE ROTOR, FIRST STAGE IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Florie McCrone	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Florie McCrone	**JUN 20 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/Installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

214386

331-200 WHEEL ASSEMBLY-2ND STAGE TURBINE

REV. 12/7/95

NV532 61646

~~NV000~~	~~00000~~	V2104 0
ORDER NO	ENGINE NO	JOB NO

M 7925 1. INSTALL BLADES AND TABLOCKS PER SHOP PROCEDURE 49-24-03/SP00

M 7925 2. BALANCE PER SHOP PROCEDURE 49-24-07/SP01

DATE 7/30/2013

FINAL UNBALANCE - GRAMS OR OZ-1NCH ANGLE

A PLANE - .00879 303

NOTE - LIST P/N AND S/N BELOW

2ND STAGE DISK P/N 3840007-1

2ND STAGE DISK S/N 0350101589

BLADE SET P/N 3840008-3

371TL L 3 ----- CONTINUOUS AIRWORTHINESS ITEM -----T2 TURBINE BLADE INSTALLATION - CHECK TABLOCK INSTALLATION PER SHOP PROCEDURE 49-24-03/SP00.

M 7925 4. BLEND PER SHOP PROCEDURE 49-24-07/SP01.

371TL L 5 LEAD VERIFY BLENDING OF DISK PER 49-24-07/SP01

371TL L 6 LEAD FINAL CHECK.

NOTE - PUT THIS BALANCE JIC WITH PART IN CONTAINER AFTER COMPLETION. THIS JIC MUST BE ACCOUNTED FOR AND TURNED IN TO PRODUCTION CONTROL CENTER WHEN PART IS ON-LOGGED

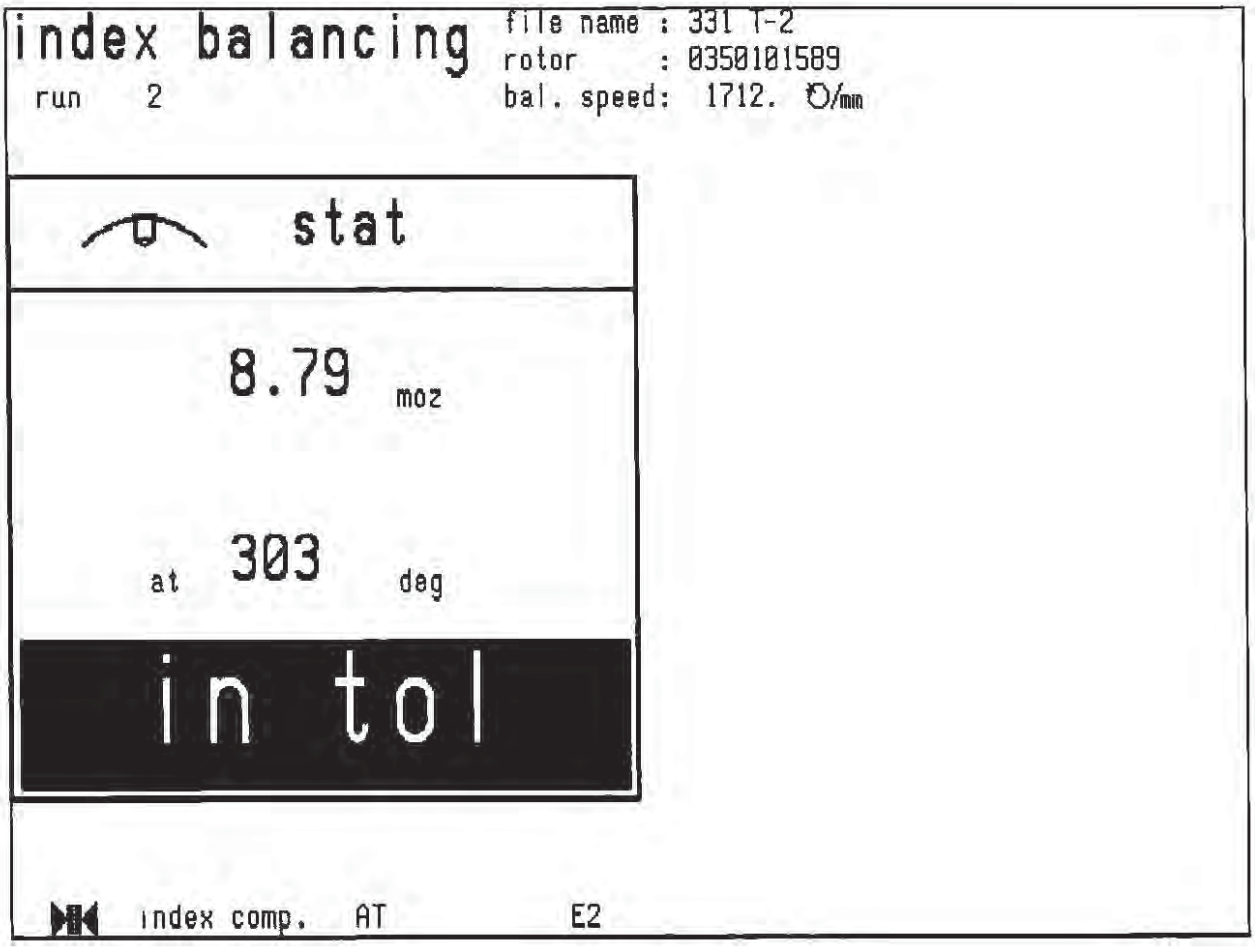
END JOB V2104.0 REVISED 12/7/95

****

UNITED AIRLINES
SAN FRANCISCO, CA

****

operator dav 07 30 13 12 28 PM



1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003583638Y14 5006484382-3081184-1

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9697008620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	BLADE, TURBINE ROTOR SECOND STAGE	3840008-2	N/A	40	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS BLADE, TURBINE ROTOR SECOND STAGE IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to	19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13
☒ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Steven Hester	**JUL 19 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, ENGINE TEST

REV. 4/26/07

V539	62697	V0103.0
ORDER NO	ENGINE NO	JOB NO

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT

V0002.0	- NON-ROUTINE ACCOUNTABILITY	
V0200.0	- ON-LOG INSPECTION	
V1522.0	APU RELEASE FORM	
V0103.5	DIAGNOSTIC RUN AND SERV. BEFORE TEST	
V0104.0	SERVICE BEFORE TEST	
V0105.1	ENGINE - TEST / RUN SHEET	
V0105.2	PRESERVATION (ENGINE TEST) PART 1	
V0106.0	SERVICE AFTER TEST	
V0106.1	PRESERVATION (SAT) PART 2	
V0106.5	SERVICE AFTER TEST LEAD CHECK	
V0106.6	SERVICE AFTER TEST LEAD RECHECK	
V0106.7	TEST CELL REPAIRS	
V0110.0	APU ENGINE SHIPPING	

7

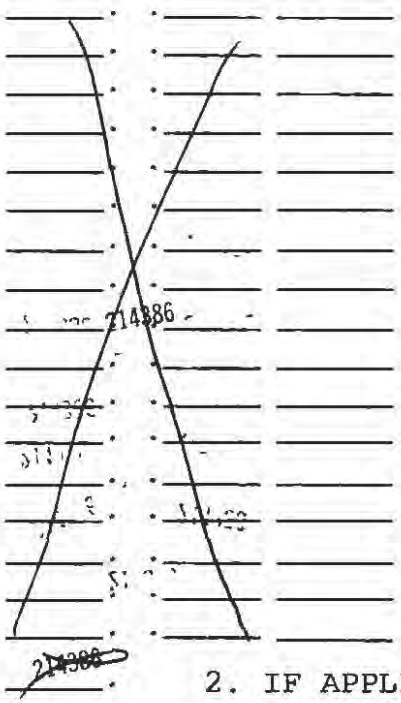
STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, ENGINE TEST

REV. 4/26/07

V539	62697	V0103.0
ORDER NO	ENGINE NO	JOB NO



2 No. COA's 214386

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

SIGNATURE: 214386 DATE: 8/22/13

END JOB V0103.0 REVISED 4/26/07

ENGINE MAINTENANCE DEPARTMENT

UNITED

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 APU RELEASE FORM

REV. 10/26/09

V539	62697	V1522.0
ORDER NO.	ENGINE NO	JOB NO

QC18517 I

1. REVIEW "ENGWRK" DISPLAY IN UNIMATIC TO ENSURE ALL ASSIGNED "ELR'S" ARE CLEARED AND ARE RECORDED IN APU AMIS FILE.

QC18517 I

2. ACCOMPLISH COMPUTER ENGINE FINAL RECORD CHECK TRANSACTION "ENGFRC".
INITIATE AND COMPLETE INSPECTION PORTION OF SERVICEABLE TAG.

371TL L

3. REPAIR AREA REVIEW DECISIONS HAVE BEEN ACCOMPLISHED.
ENGINE IS READY FOR TEST.

214386

4. ALL JOB CARD AND NON-ROUTINE DOCUMENTATION IS CLEARED AND ACCOUNTED FOR.
FORWARD LOG PACKAGE TO ENGINE RECORDS.

371TL L

5. AFTER TEST RUN INFORMATION:
FINAL RUN IS GOOD, YES 371TL NO_____ IF 'NO', LIST CAUSE OF REJECT. _____

6. FOREMAN OR DESIGNEE SIGNATURE VERIFIES THAT ENGINE IS SERVICEABLE, THERE ARE NO RESTRICTIONS AND ALL DEVIATIONS ARE CLOSED.

FOREMAN
OR DESIGNEE _____ DATE 8/22/13

371TL L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 APU RELEASE FORM

REV. 10/26/09

V539	62697	V1522.0
ORDER NO	ENGINE NO	JOB NO

END JOB V1522.0 REVISED 10/26/09

0C1821

0C1821

371TL

L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 SERVICE BEFORE TEST

REV. 11/23/12

V539	62697	V0104.0
ORDER NO.	ENGINE NO.	JOB NO.

NOTE - SET TORQUE WRENCH TO THE TORQUE VALUE SPECIFIED. IF NO TORQUE VALUE IS SPECIFIED, USE STANDARD TORQUE PER GN-8-0-2-14.

CAUTION - SCRAP ANY SELF LOCKING NUT WHICH CAN BE TURNED PAST ITS LOCKING FEATURE BY HAND.

-----PREPARE FOR TEST-----

371TL L 1. PROVIDE ENG/MODULE SUMMARY REPORT (ENGMOD).

M 5810 2. INSTALL REAR ENGINE MOUNTS. TORQUE TO 80-100 IN. LBS. AND SAFETY WIRE (.032 WIRE).

M 5810 3. INSTALL FUEL INLET QUICK DISCONNECT FITTING.

M 5810 4. INSTALL FUEL PRESSURE TEST TEE FITTING & ADAPTER TUBE.

M 5810 5. INSTALL REDUCER AND OIL TEMPERATURE BULB IN GEARBOX.

M 5810 6. INSTALL MAIN ELECTRICAL HARNESS ADAPTER.

M 5810 7. INSTALL PS3 TEST TUBE. HANG PCD2 TUBE IN CONVIENT LOCATION TO BE INSTALLED DURING SERVICE AFTER TEST.

M 5810 8. CONNECT STARTER HARNESS LEADS TO STARTER TERMINALS.
HOLD BOTTOM NUT WITH WRENCH, TORQUE POSITIVE TOP NUT 80 LB. IN.
HOLD BOTTOM NUT WITH WRENCH, TORQUE NEGATIVE TOP NUT 50 LB. IN.

M 5810 9. INSTALL GENERATOR HARNESS.

M 5810 10. INSTALL TEST CELL EXAHUST PIPE, TORQUE CLAMP.

M 5810 11. REMOVE ALL SURPLUS PARTS FROM STALL SHELVES AND ROUTE TO PROPER DESTINATION.

M 5810 12. CLEAN ALL STALL SHELVES.

371TL L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 SERVICE BEFORE TEST

REV. 11/23/12

V539	62697	V0104.0
ORDER NO	ENGINE NO	JOB NO

371TL
_____L

13. VERIFY AND CLEAR ALL "ELR'S" BY REVIEWING "ENGWRK" DISPLAY IN UNIMATIC APU AMIS FILE.

371TL
_____L

14. LEAD CHECK - GENERAL SECURITY CHECK - PRIOR TO TEST. WRENCH CHECK.

END JOB V0104.0 REVISED 11/23/12

371TL
_____L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ENGINE - TEST / RUN SHEET

REV. 3/21/12

V539	62697	V0105.1
ORDER NO	ENGINE NO	JOB NO

DATE OF TEST RUN 8/21/2013 TEST CELL # 2

M 6412 1. INDICATE TYPE OF RUN. STAMP A, B, C, D OR E BELOW:

____ A. DIAGNOSTIC RUN

6412 B. REPAIR RUN POWER SECTION REFURBISHMENT

____ C. REPAIR RUN NO POWER SECTION REFURBISHMENT

____ D. IDLE LEAK CHECK

____ E. OIL CONSUMPTION

M 6412 2. INSTALL Tt7 INTERFACE JUMPER #1 AT THERMOCOUPLE BOX.

M 6412 3. INSTALL INLET TEMPERATURE FRAME.

M 6412 4. CHECK AND SERVICE OIL QUANTITY PRIOR TO ENGINE TEST. DUPLICATE SIGNOFF V0101.2

M 6412 5. INSTALL AND/OR CONFIRM ENGINE IS SECURED IN A RUN STAND.

M 6412 6. INSTALL VIBRATION MOUNTS AND PICKUPS. INSTALL VGG VIBRATION LEAD TO AFT PICKUP.

M 6412 A. INSTALL VAGB VIBRATION LEAD TO VAGB RECEPTACLE ON VIBRATION INTERFACE BOX AND FORWARD PICKUP.

M 6412 B. INSTALL VAGB COAXIAL CABLE TO VAGB RECEPTACLE ON SRS.

M 6412 C. INSTALL VGG COAXIAL CABLE TO VGG RECEPTACLE ON SRS.

M 6412 7. SECURE ENGINE IN TEST CELL PER ENGINE MANUAL TESTING SECTION 49-20-00.

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

M 6412 8. CHECK ENGINE AND CELL FOR CLEANLINESS AND SECURITY BEFORE ATTEMPTING ENGINE START. CHECK INLET AND EXHAUST FOR FOREIGN MATERIAL.

NOTE - TEST CELL OPERATOR HAS THE OPTION OF RUNNING THE APU IN MANUAL OR AUTO MODE.

M 6412 9. ACCOMPLISH ALTITUDE SIMULATION BLANKING PLATE PERFORMANCE TEST.

M 6412 10. PERFORM TEST OPERATIONS PER ENGINE MANUAL TESTING SECTION 49-20-00.

DID COOLING FAN VIBRATION EXCEED 1.0 IPS?

____ A. IF YES, REMOVE GENERATOR, INSTALL COVER PLATE AND REPEAT TEST. IF VIBRATION FALLS BELOW .6 IPS, REPLACE THE GENERATOR. IF VIBRATION IS HIGHER THAN .6 IPS, REPLACE THE COOLING FAN AND REPEAT TEST.

6412 B. IF NO, CONTINUE WITH TEST

M 6412 11. ACCOMPLISH A COMPRESSOR STALL CHECK PER ENGINE MANUAL TESTING SECTION 49-20-00, TO DETERMINE PNEUMATIC STABILITY OF THE LOAD COMPRESSOR. RECORD DCF RECORD DCF ACCOMPLISHED.

DCF 79

M 6412 12. ACCOMPLISH FLOW SENSOR ADJUSTMENT PER ENGINE MANUAL TESTING SECTION 49-20-00. RECORD THE DCF THAT THE SURGE VALVE CRACKS IN DUCT PRESSURIZATION MODE.

DP CRACK DCF 88

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ENGINE - TEST / RUN SHEET

REV. 3/21/12

V539	62697	V0105.1
ORDER NO	ENGINE NO	JOB NO

M 6412 13. ACCOMPLISH MES CRACK POINT CHECK PER ENGINE MANUAL TESTING SECTION 49-20-00. RECORD DCF THAT THE SURGE CONTROL VALVE CRACKS IN MES MODE.

371TL

MES CRACK DCF 98

LM 6412 14. ----- CONTINUOUS AIRWORTHINESS ITEM -----
CHECK FUEL MANIFOLD HOSE TO ATOMIZER FOR EVIDENCE OF LEAKING.

(6412) OK
( ) NOT OK

NO EVIDENCE OF LEAKING ALLOWED.
LIST ALL REPAIRS ON JIC V0106.7.

M 6412 15. SMOKE CHECK - WITH ENGINE OPERATING AT NO-LOAD, CHECK EXHAUST STACK FOR SMOKE. IF EXCESSIVE BLACK SMOKE OR ANY WHITE SMOKE IS OBSERVED, CONTACT SFOEP PERFORMANCE.

M 6412 16. REMOVE FUEL TEST "T" FITTING AND RECONNECT FUEL LINE AND LEAK CHECK IT.

M 6412 17. NON ROUTINE CELL WORK None 6412

M 6412 18. CHECK OIL LEVEL AND SERVICE AS REQUIRED.

ALL ITEMS ARE PROPERLY SIGNED OFF.

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ENGINE - TEST / RUN SHEET

REV. 3/21/12

V539	62697	V0105.1
ORDER NO	ENGINE NO.	JOB NO

M 6412 19. PARTS CHANGED IN TEST CELL.

NOMENCLATURE	S/N OFF	S/N ON	REASON FOR REPLACEMENT
None 6412			

371TL LM 6412 20. CHECK MAIN OIL SCREEN FOR FOREIGN MATERIAL.
"NO METAL ALLOWED"
SCREEN CONDITION OKAY. YES 6412 NO _____
IF YES, REPLACE FILTER.
IF NO, CONTACT FOREMAN FOR RE-REVIEW OF APU.

NOTE - TAG AND ROUTE ALL PARTS CHANGED TO HOME SHOP.

M 6412 21. REMOVE VIBRATION EQUIPMENT.

M 6412 22. REMOVE INLET TEMPERATURE FRAME.

M 6412 23. IF ENGINE IS TO BE PRESERVED, REQUEST JIC V0105.2 FROM SCHEDULE CENTER.

APU IS TO BE PRESERVED YES____ NO 6412

_____.M 6412 24. CUSTOMER ENGINES ONLY: VIDEO BORESCOPE SERVICE AFTER TEST INSPECTION REQUIRED. REQUEST FROM SCHEDULE CENTER JIC V0108.0

24. Not required. United APU. 6412

371TL
_____L

ALL ITEMS ARE PROPERLY SIGNED OFF.

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ENGINE - TEST / RUN SHEET

REV. 3/21/12

V539	62697	V0105.1
ORDER NO	ENGINE NO	JOB NO

371TL L 25. VERIFY JIC V0108.0 IS COMPLETE.

M 6412 26. MAKE TWO COPIES OF TEST SUMMARY SHEET. ATTACH ONE COPY TO TEST J.I.C. AND PROVIDE THE OTHER COPY ALONG WITH TEST LOG PACKAGE TO ENGINEERING.

M 6412 27. FILL OUT PROBLEM SHEET, MAKE ONE COPY OF PROBLEM SHEET. ATTACH TO TEST J.I.C.

371TL LM 6412 28. TESTED OK 6412 NOT OK ____

TCR FOR _____ EVA REQUESTED _____

IF TCR, THE FOLLOWING MUST BE SIGNED OFF AND DATED.
SHOP FORMAN_____DATE_____
ENGINEER_____DATE_____

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ENGINE - TEST / RUN SHEET

REV. 3/21/12

V539	62697	V0105.1
ORDER NO	ENGINE NO	JOB NO

END JOB V0105.1 REVISED 3/21/12

371TL

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 SERVICE AFTER TEST

REV. 9/15/09

V539	62697	V0106.0
ORDER NO	ENGINE NO	JOB NO

NOTE - SET TORQUE WRENCH TO THE TORQUE VALUE SPECIFIED. IF NO TORQUE VALUE IS SPECIFIED, USE STANDARD TORQUE PER GN-8-0-2-14.

CAUTION - SCRAP ANY SELF LOCKING NUT WHICH CAN BE TURNED PAST ITS LOCKING FEATURE BY HAND.

M 8012 1. REMOVE TESTCELL EXHAUST PIPE AND CLAMP.

M 8012 2. REMOVE TESTCELL STARTER HARNESS. TIGHTEN STARTER TERMINAL NUTS FINGER TIGHT.

M 8012 3. REMOVE GENERATOR HARNESS.

M 8012 4. REMOVE MAIN ELECTRICAL HARNESS ADAPTER.

M 8012 5. REMOVE PS3 TEST TUBE AND REINSTALL PCD2 TUBE.

M 8012 6. INSTALL GENERATOR TERMINAL COVER.

M 8012 7. REMOVE OIL TEMPERATURE BULB AND REDUCER FROM GEARBOX. INSTALL PLUG AND O-RING. TORQUE PLUG.

M 6412 8. REMOVE FUEL INLET QUICK DISCONNECT FITTING. INSTALL UNION AND O-RING. TORQUE UNION AND THEN CAP.

M 8012 9. INSTALL COVERS, CAPS, OR PLUGS ON ALL TEST EQUIPMENT.

Item #10 not applicable 8012

LM X 10. CUSTOMER ONLY: VIDEO BORESCOPE REQUIRED, REQUEST JIC V0108.0 FROM SCHEDULE CENTER. PREPARE ENGINE FOR BORESCOPE ACCESS.

I 11. CUSTOMER ONLY: VIDEO BORESCOPE LOAD COMPRESSOR IMPELLER LEADING EDGE AND TRAILING EDGE BLADES. C1 IMPELLER LEADING EDGE AND TRAILING EDGE BLADES. C1 VOLUTE AND LOAD COMPRESSOR VOLUTE. INSPECT PER EID 49-10-01 CRITERIA LIMITS. REQUEST JIC V0108.0 FROM SCHEDULE CENTER.

L ALL ITEMS ARE PROPERLY SIGNED OFF.

M 8012 12. REINSTALL PARTS REMOVED FOR BORESCOPE ACCESS.

M 8012 13. PROVIDE ENGINE MOUNT NUTS AND WASHERS IN CLOTH BAG ATTACHED TO LEFT REAR ENGINE MOUNT.

M 8012 14. RE-TORQUE AFT SCAVENGE PUMP ASSEMBLY NUTS TO 90 LB. IN. INSTALL TAIL CONE, SPACER AND SCREWS AND TORQUE TO 50 LB. IN.

M 8012 15. CHECK GEARBOX VENT LINE AT TURBINE EXHAUST FOR OIL WETNESS. MAXIMUM OIL DRIPPINGS IS 150 DROPS OR 10CC TOTAL.

M 6412 16. CHECK OIL LEVEL AND SERVICE AS REQUIRED.

M 6412 17. DRAIN FUEL FROM FILTER BOWL AND REINSTALL FILTER BOWL.

M 8012 18. VERIFY DRAIN MAST FITTINGS ARE IN UPPER HOLES OF DRAIN MAST PER IPC. (REF. IPC 50/60/65-49-16-00-011).

50-49-16-00-011
60-49-16-00-011
65-49-16-00-011

-------CONTINUOUS AIRWORTHINESS ITEMS ----------

CHECK SAFETY.

371TL
_____L 19. ROTATE ENGINE AND CHECK FOR UNUSUAL NOISES AND FOR FREEDOM OF ROTATION.

CAUTION - ROTATE ENGINE AFTER ENGINE HAS COOLED.

371TL
_____L 20. CHECK SAFETY OF MAIN OIL SCREEN

M 8012 21. INSTALL EXXON 2389 PLACARD (265-2389) ON FORWARD SIDE OF OIL FILLER HOUSING. REMOVE OTHER OIL PLACARDS.

M8012 22. INSTALL COVERS, CAPS OR PLUGS ON ALL APU OPENINGS.

371TL
_____L ALL ITEMS ARE PROPERLY SIGNED OFF.

M 8012 23. CLAMP FUEL LINE TO BRACKET BETWEEN FUEL CONTROL & FLOW DIVIDER VALVE.

M 8012 24. PERFORM SECURITY AND SAFETY CHECK OF ENGINE.
CHECK ALL TUBE AND HOSE NUTS FOR SECURITY.
ASSURE THAT FUEL NOZZLES ARE SECURE AND SAFETIED.
CHECK ELECTRICAL CONNECTORS FOR SECURITY. SAFETY AS REQUIRED.

M 8012 25. IF ENGINE IS TO BE PRESERVED, REQUEST JIC V0106.1 FROM SCHEDULE CENTER.

M 8012 26. THIS UNIT HAS BEEN PREPARED FOR SHIPMENT IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF U.S. DOT 49 CFR HAZARDOUS MATERIALS TRANSPORTATION REGULATIONS AND THE ICAO/IATA DANGEROUS GOODS REGULATIONS.

371TL
_____L 27. LEAD - FINAL CHECK OF ENGINE.
CHECK THAT SERVICEABLE TAG IS PRESENT IN PLASTIC ENVELOPE.
CHECK THAT V0108.0 IS COMPLETE.

371TL
_____L 28. ACCOMPLISH "ENGVST" TRANSACTION IN UNIMATIC TO RECORD THE ENGINE VISIT WORK COMPLETION. RECORD IN "ENGWRK" DISPLAY ANY OTHER OPEN ITEMS TO BE ACCOMPLISHED DURING APU INSTALLATION.

V539	62697	V0106.0
ORDER NO	ENGINE NO	JOB NO

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

END JOB V0106.0 REVISED 9/15/09

371TL

_____L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 SERVICE AFTER TEST LEAD CHECK

REV. 6/5/03

V539	62697	V0106.5
ORDER NO	ENGINE NO	JOB NO

NOTE - RECORD ALL DISCREPANCIES ON SERVICE AFTER TEST LEAD RECHECK JOB CARD V0106.6

371TL L	1. VERIFY ALL REPAIRS TO BE ACCOMPLISHED DURING OR AFTER TEST HAVE BEEN PROPERLY COMPLETED.
371TL L	2. CHECK FOR FREEDOM OF ROTATION AFTER ENGINE HAS COOLED. CHECK FOR UNUSUAL NOISES.
371TL L	3. CHECK INLET AND EXHAUST FOR DEBRIS, F.O.D. OR OBVIOUS DAMAGE.
371TL L	4. CHECK GENERATOR, STARTER AND MAIN ELECTRICAL CONNECTORS FOR BENT, BURNED OR PUSHED BACK PINS OR SOCKETS.
371TL L	5. CHECK THAT ALL CAPS AND PLUGS ARE INSTALLED, TIGHT AND, IF NECESSARY, SAFTIED.
371TL L	6. CHECK THAT PROPER MANUFACTURER ENGINE IDENTIFICATION DATA PLATE IS INSTALLED ON LOWER INLET PLENUM AND INSPECTION PLATE INSTALLED AND SECURE.
371TL L	7. CHECK THAT UA S/N I.D. PLATE IS INSTALLED BELOW GEARBOX. CHECK ALL MOUNTED ACCESSORIES FOR PROPER INSTALLATION.
371TL L	8. CHECK THAT ENGINE MOUNT AND SHIPPING MOUNT BOLTS ARE INSTALLED AND TIGHTENED AFTER APU IS INSTALLED IN SHIPPING STAND.
371TL L	9. CHECK THAT NEW ENGINE MOUNT NUTS AND WASHERS ARE PROVIDED IN CLOTH BAG ATTACHED TO LEFT AFT MOUNT.
371TL L	10. CHECK THAT ALL PROTECTIVE COVERS ARE INSTALLED ON INLET AND EXHAUST.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 SERVICE AFTER TEST LEAD CHECK

REV. 6/5/03

V539	62697	V0106.5
ORDER NO	ENGINE NO	JOB NO

END JOB V0106.5 REVISED 6/5/03

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 TEST CELL REPAIRS

REV. 6/2/10

V539	62697	V0106.7
ORDER NO	ENGINE NO	JOB NO

NOTE - USE THIS JIC TO RECORD ANY WORK NEEDS TO BE ACCOMPLISHED OTHER THAN THE TEST ITSELF.

NOTE - LEAD, SIGN-OFF IN LEFT HAND COLUMN.
MECHANIC, SIGN-OFF IN RIGHT HAND COLUMN.

NOTE - IF NO DISCREPANCIES FOUND, WRITE NONE.

DISCREPANCY OR ACTION

M6412 (1) Generator oil filter bowl not safetied to gearbox drain boss.

371TL LM6012 Safetied.

M6412 (2) Oil pump differential pressure indicator not safetied.

371TL LM6012 Safetied.

M6412 (3) Flow sense module adjustment bolt not safetied & cover not installed.

371TL LM6412 Safetied bolt & installed cover.

371TL

_____L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 TEST CELL REPAIRS

REV: 6/2/10

V539	62697	V0106 7
ORDER NO	ENGINE NO	JOB NO

END JOB V0106.7 REVISED 6/2/10

371TL

L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 APU ENGINE SHIPPING

REV. 11/22/85

V539	62697	V0110.0
ORDER NO	ENGINE NO	JOB NO

END JOB V0110.0 REVISED 11/22/85

37171 L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

7

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 APU ENGINE SHIPPING

REV. 11/22/85

V539	62697	V0110.0
ORDER NO	ENGINE NO	JOB NO

M8012 1. ATTACH LIFTING SLING TO ENGINE AND REMOVE ENGINE FROM RUN OR BUILD STAND.

371TL L 2. CHECK ENGINE MOUNTS FOR SECURITY OF INSTALLATION ON ENGINE.

M8012 3. POSITION ENGINE IN SHIPPING STAND AND SECURE WITH SAFETY PINS ON ENGINE MOUNTS.

371TL L 4. CHECK ENGINE FOR SECURITY AND PROPER INSTALLATION IN SHIPPING STAND.

371TL L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890003444340Y14 5006305118-2981763-1

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
	Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9684318620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	CONE TAIL	3850008-1	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS CONE TAIL IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130.21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Stephen J. Robinson	ODA-602216-NM		
17. Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Stephen J. Robinson	**MAY 16 2013**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

UNITED AIRLINES ENGINE SIT AD VERIFICATION

AOP PA/-46-05-00-13

ENGINE TYPE GTCP331-200 ENGINE S/N 62697 ORDER NO. V539

AD NUMBER	TITLE	INSTRUCTIONS FOR APPLICABILITY	INSTRUCTIONS FOR VERIFICATION	SPOT VER
NO ACTIVE AIRWORTHINESS DIRECTIVES (AD)				NA

This report applies to this engine visit only. For Engine AD status, see United Airlines AD Compliance Record.

Signature _____ Date 8/23/13

KEY: C/W = complied with this visit
PCW = previously complied with
N/A = not applicable this visit
FCW = factory complied with

CONTR DATE

1/6/9

ENH652D0 * * * ENGINE MAINTENANCE SYSTEM * * * 09/12/13 08:08:41
UNTLIM * * * UNIT HARD LIMITS REPORT * * * PAGE: 1
* * * CURRENT POWER RATING * * *

ORDER NUMBER	ENGINE TYPE	MODULE TYPE	SERIAL NUMBER	CUSTOMER UA			
V539	V		62697	CURRENT PWR RTG 200E	TSN	18025	LOW NONE
				NOUN APU331	CSN	23603	LOW 04664
					DAYS REMAINING		NONE

TIMES/CYCLES CURRENT TO THIS MAINTENANCE

FUNC/MOD NAME	SERIAL NUMBER PART NUMBER	LIMIT VALUE	SERIAL ACCUMS	EVENTS	REMAINING VALUE
01009-001 T3 WHEEL ASSY	0734502190 3840022-4	025000	11789	CSN	13211
01007-001 DISK T2 TURBINE	0350101589 3840007-1	020000	15336	CSN	04664
01004-001 DISK T1 TURBINE	0135703907 3840019-1	020000	12823	CSN	07177

* * * END OF REPORT * * *

ENH647D0 ENGINE MAINTENANCE SYSTEM 09/12/13 08:07:55
ENGMOD ENGINE/MODULE SUMMARY REPORT PAGE: 1

ORDER NUMBER\	ENGINE TYPE\	MODULE TYPE\	SERIAL NUMBER\	NOUN	CUST-OMER	CURRENT POWER RTG	PRIOR ORDER
V529	V		62697	APU331	UA	200E	V665

PRINT: ACTUALS: ACCUMS/SUBS: DIMENSIONS: COAS: LIMITS:
P Y

OFF FLEET 767 OFF AC NBR N668UA-APU DATE ON 122810 DATE OFF 063013
SERVICEABLE STATUS S DATE-LAST-SERV 082213
COMMENTS

ACCUMULATIONS AND SUB-ASSEMBLIES

ACCUMS:	18025 TSN	23603 CSN	00000 TSAPUSAM1
	00000 CSAPUSAM1	00000 TSAPUSAM2	00000 CSAPUSAM2
	00000 TSAPUSAM3	00000 CSAPUSAM3	

MT	MODULE NAME	SER NBR	ORDNO	OFF DATE	ON DATE	TSHM	TSMI
F	DRIVEN COMP SE	P-1985	V535	061813	081313		00000
N	POWER SECTION	P1392	V532	060313	081313		00000
A	GEARBOX ASSMBLY	P1536	V534	062113	081313		00000

* * * END OF REPORT * * *

ENH647D0 ENGINE MAINTENANCE SYSTEM 09/12/13 08:08:02
ENGMOD ENGINE/MODULE SUMMARY REPORT PAGE: 1

ORDER NUMBER\	ENGINE TYPE\	MODULE TYPE\	SERIAL NUMBER\	NOUN	CUST-OMER	CURRENT POWER RTG	PRIOR ORDER
FV535	V	F	P-1985	DRIVEN COMP SE	UA	200E	V306

PRINT: P ACTUALS: ACCUMS/SUBS: Y DIMENSIONS: COAS: LIMITS:

ON ORDNO V539 ON SERIAL 62697 DATE ON 081313 DATE OFF 061813
SERVICEABLE STATUS S DATE-LAST-SERV 080213
COMMENTS

ACCUMULATIONS AND SUB-ASSEMBLIES

ACCUMS:	18556 TSN	27490 CSN	00000 TSMI
	00000 CSMI	00000 TSMDPI	00000 CSMDPI

MT	MODULE NAME	SER NBR	ORDNO	OFF DATE	ON DATE	TSHM	TSMI

* * * END OF REPORT * * *

ENH647D0 ENGINE MAINTENANCE SYSTEM 09/12/13 08:08:15
ENGMOD ENGINE/MODULE SUMMARY REPORT PAGE: 1

ORDER NUMBER\	ENGINE TYPE\	MODULE TYPE\	SERIAL NUMBER\	NOUN	CUST-OMER	CURRENT POWER RTG	PRIOR ORDER
NV532	V	N	P1392	POWER SECTION	UA	200E	V334

PRINT:	ACTUALS:	ACCUMS/SUBS:	DIMENSIONS:	COAS:	LIMITS:
P		Y			

ON ORDNO V539 ON SERIAL 62697 DATE ON 081313 DATE OFF 060313
SERVICEABLE STATUS S DATE-LAST-SERV 081313
COMMENTS

ACCUMULATIONS AND SUB-ASSEMBLIES

ACCUMS:	25892 TSN	29050 CSN	00000 TSMI		
	00000 CSMI	00000 TSRE-BUILD	00000 CSRE-BUILD		

MT	MODULE NAME	SER NBR	ORDNO	OFF DATE	ON DATE	TSHM	TSMI

* * * END OF REPORT * * *

ENH647D0 ENGINE MAINTENANCE SYSTEM 09/12/13 08:08:23
ENGMOD ENGINE/MODULE SUMMARY REPORT PAGE: 1

ORDER NUMBER\	ENGINE TYPE\	MODULE TYPE\	SERIAL NUMBER\	NOUN	CUST-OMER	CURRENT POWER RTG	PRIOR ORDER
AV574	V	A	P1536	GEARBOX ASSMBL	UA	200E	V466

PRINT: ACTUALS: ACCUMS/SUBS: DIMENSIONS: COAS: LIMITS:
P Y
ON ORDNO V539 ON SERIAL 62697 DATE ON 081313 DATE OFF 062113
SERVICEABLE STATUS S DATE-LAST-SERV 073013
COMMENTS

ACCUMULATIONS AND SUB-ASSEMBLIES

ACCUMS:	29385 TSN	36105 CSN	00000 TSMI
	00000 CSMI	00000 TSMDPI	00000 CSMDPI

MT	MODULE NAME	SER NBR	ORDNO	OFF DATE	ON DATE	TSHM	TSM1

* * * END OF REPORT * * *

ENH692D0 * * ENGINE MAINTENANCE SYSTEM * * 09/12/13 08:08:35
ENGRVW UNITED AIRLINES ENGINE/MODULE REVIEW PAGE: 1

ORDER NUMBER: V539 ET: V MT: SERIAL NUMBER: 62697
NOUN: APU331 CUST: UA POWER RATING: 200E PRIOR-ORDNO: V665
UPDATE NBR: 02 REVISION NBR: 01 DATE: 07/15/13 REVISED BY: 075564
OFF FLEET 767 OFF AC NBR-POS N668UA-APU DATE ON: 12/28/10
DATE MAINTENANCED: 06/30/13 STA: GSO
SERVICEABLE STATUS: S DATE SERV: 08/22/13
COMMENTS: FIX LETTER: N
DATE LSV: 09/07/10 TSLV: 03070 CSLV: 04199 TSLM: 03070 CSLM: 04199
ACCUMS: 18025 TSN 23603 CSN 00000 TSAPUSAM1 00000 CSAPUSAM1
00000 TSAPUSAM2 00000 CSAPUSAM2 00000 TSAPUSAM3 00000 CSAPUSAM3

REASON REMOVED : APU HAS LOW BLEED PRESSURE
REVIEW COMMENTS: TYPE REPAIR: ESV
BORESCOPE: TYPE OF RUN: H
REPAIR DECISION:
PBC.ROUTE NV.FV.AV MODULES.FAN.LUBE PUMP.(JH7/8)

			REMAINING				ROUTE TIME/LIMIT	
MT	MODULE NAME	SER NBR	HOURS	CYCLE	TSHM	TSMI	THR	W/C INSTRUCTION
F	DRIVEN COMP SE	P-1166	N/A	N/A	UNK	03070	NONE	
N	POWER SECTION	P-1266	N/A	04148	UNK	03070	B	
A	GEARBOX ASSMBL	P209	N/A	N/A	UNK	03070	NONE	

*** END OF REPORT ***

UNITED AIRLINES

APU TEST CELL SUMMARY

Test Cell # 2
Test Completed: 8/21/13 Engine Model GTCP-331 Engine Serial No 62697
Customer Code: UA Order No. V539 Run Type: Power Section Ref

START DATA

PARAMETER	16% N2 DATA	LIMIT	30% N2 DATA	LIMIT	50% N2 DATA	LIMIT	95% N2 DATA	LIMIT
Date	8/21/13		8/21/13		8/21/13		8/21/13	
Time	13 10:58		13 11: 5		13 11 18		13.11 36	
Time	3.5		10.1		23.0		40.5	
NArpm	6320		12074		19914		37734	
NA %	15.9		30.3		50.0		94.7	
Vgg	.05		.13		16		.12	
Vagb	.04		09		12		.30	
Wf-1	67		57		97		205	
Pfpump	2		2		.1		.1	
Poilpump	1.3		8.8		29.8		63.0	
Pfinlt	26.9		26.7		26.7		26.6	
CITAvg	36.2		35.6		33.9		31.4	
ACCEL	1215.9		702.2		684.0		1073.5	
Toil	96.8		96.6		92.6		86.6	
Tt7Avg	141 9	1028 degC	551.2	912 degC	670.6	826 degC	383.5	633 de
EGTAvg	165.4		628 1		729.6		385.9	

UNITED AIRLINES

APU TEST CELL SUMMARY

Test Cell # 2
Test Completed: 8/21/13 Engine Model: GTCP-331 Engine Serial No 62697
Customer Code. UA Order No V539 Run Type: Power Section Ref

PARAMETER	IDLE DATA	LIMIT	GENERATOR DATA	LIMIT
Date	8/21/13		8/21/13	
Time	8.42.29		12.44 24	
NArpm	39823		39864	
NA %	99.9		100.0	
PMGAB (Loaded)	104		90	81-102 vac
PMGBC (Loaded)	105		91	81-102 vac
PMGAC (Loaded)	104		90	81-102 vac
KVA1	0		85	
GENAB	208		207	203-212 vac
GENBC	208		208	203-212 vac
GENAC	208		207	203-212 vac
GENFREQ	396		397	395-405 hz
Vgg	13	1.0 ips	10	1 0 ips
Vagb	.12	1.0 ips	.15	1.0 ips
DpCond	86		77	
PtCond	14.72		14 70	
P2Cond	14.74		14.74	
Pfpump	203.6		249 1	
PoilPump	64.7	60-75 psig	65 4	
Pagb	-1.4	-1.8 psig	-1.3	
Ps3	99 4		101.4	
CITAvg	21.5		26.8	
Toil	88.8	152 degC	82.2	
Tt7Avg	320.8	500.0 degC	371.3	
EGTAvg	321.6		372 5	
EGT1	329.1		384.2	
EGT2	314.2		360 9	
Wf-1	208		254	

UNITED AIRLINES

APU TEST CELL SUMMARY

Test Cell # 2
Test Completed: 8/21/13 Engine Model. GTCP-331 Engine Serial No 62697
Customer Code UA Order No V539 Run Type. Power Section Ref

PARAMETER	COMB LOAD DATA	LIMIT	PERFORMANCE DATA	LIMIT	ALTITUDE DATA	LIMIT
Date	8/21/13		8/21/13		8/21/13	
Time	12:56.18		10:37.15		9.24 28	
NArpm	40398		40398		40413	
NA %	101.4	101 %	101.4	101 %	101.4	101 %
Vgg	.12	1.0 ips	.12	1.0 ips	.12	1 0 ips
Vagb	.22	1.0 ips	.15	1.0 ips	.14	1.0 ips
IGV-lvdt	-11		-18		-18	
SV-TM	73		68		100	
DCP	95.9		95 9	95-97 ppm	95.5	95-97 ppm
KVA1	90		0		0	
WBcorr	268.4		273.1	259.0 ppm	281.3	261.7 ppm
Wf-1	400		366		366	
HP70	492.6		505.6		515.2	
NC	8		8		.8	
DpCond	2.62		2.77		3.08	
PtCond	52 30		53 40		55.11	
P2Cond	14 71		14 72		14 72	
PBcorr	52.84		53.81	52.58 psia	55.53	53.00 psia
Pcell	14.67		14.68		14.68	
Pfpump	459.2		402.4		402.6	
PoilPump	63.4		64.4	60-75 psig	67.9	60-75 psig
Pagb	-1 6		-1.7		2.3	
Ps3	110.7		111.3		113.3	
CITAvg	29.4		25.9		22.4	
CIT1	28.9		25.4		22 1	
CIT2	29.1		26.3		22.9	
CIT3	29.8		26.2		22.6	
CIT4	29.9		26 2		22.5	
TBcorr	202.9		203.9		201.3	
Tfinlt	32.5		23.2		19.8	
Toil	110.6		96.4		94.9	
Tt7Avg	530 4		478 1		475.1	
Tt7AvgCorr	526.1		470.6	501.0 degC	459.7	493.2 degC
EGT1	553 2		499 9		492.0	
EGT2	526.3		464.8		460.2	
EGTAvg	539 6		482.4		475.9	

UNITED AIRLINES

APU TEST STATUS SUMMARY

Test Completed. 8/21/13 | Engine Model: GTCP-331 | Engine Serial No: 62697
Customer Code UA | Order No: V539 | Run Type: Hot Section Repai
Total Runtime 1 56 26 | Fuel Used: 0 gals

AUTORUN TASKS	*COMPLETED*	*PASS/FAIL*
Altitude Simulation Test	YES	Passed
Oil In Bleed Air*	YES	Passed
Performance Run	YES	Passed
Combined Load	YES	Passed
Generator Check	YES	Passed
Surge Control	YES	Passed
Leak/Instrumentation/Idle	YES	Passed
Start	YES	Passed
Fuel bleed	YES	Passed

COMPONENT(s) REPAIRED/REPLACED

NO COMPONENTS WERE REPAIRED .or. REPLACED

TESTED OK 6412 NOT OK _____

BY: E Adams 077493

DATE. 8/21/2013

ENGINE MAINTENANCE RECORDS

LOG CERTIFICATION FORM D-199

REF: PAOP 45-55-30-04

CONTROLLED DOCUMENT - DO NOT DUPLICATE

ALL PORTIONS OF BUILD LOGS ARE COMPLETE AND ACCURATE FOR ENGINE/STAND-ALONE MODULES.

ESN 62697

Repair Order Number V539

Power Rating 331-200E

IN ADDITION, THE A D VERIFICATION CHECKLIST (AS SUPPLIED BY SFOEP) IS ON FILE IN SFOMR/PA AS PART OF THE ENGINE LOG.

THE FOLLOWING ITEMS MUST BE CLEARED BEFORE THE ENGINE/STAND-ALONE MODULE IS RELEASED. (IF NONE, SO STATE)

NONE.

SFOMR/PA _____ **Date** 8/22/2013

Shirley Buffert

ORIGINAL

FOR SFOMR / PA USE ONLY

WHEN ENGINE MAINTENANCE RETURNS THIS D-199 TO SFOMR/PA AS A RESULT OF A TEST CELL INTERRUPT (TCI) OR A TEST CELL REJECT (TCR), FILL OUT THE FOLLOWING INFORMATION.

REASON: **TCI or TCR?** _____

SFOMR/PA _____ **Date**

(SIGNATURE HERE RENDERS THIS D-199 NULL AND VOID)

```
SFOMR1 SFOBB SFOMR SFOLMEMC SFOEPA SFO1Z SFOPD6
SFOIQ
.HLOCOUA 221425/JAC


SPARE APU CHECK ACCOMPLISHMENT RECORDED -- APU SERVICEABLE
      SOURCE OF CURRENT SERVICEABLE STATUS IS THE AMIS ENGVST DISPLAY
*******HAZMAT*****HAZMAT    PCN: 265-9101    HAZMAT********HAZMAT******HAZMAT*******
ENG SN:  62697 331- 200E     ETT:  18025:16    ETC:  23603    RCS NBR:     -
A  CI   CHECK HAS BEEN ACCOMPLISHED AT SFO ON 22AUG2013 AT 0726
BY: 018617  JACK HUNTINGTON
LOC ON FIELD:
REMARKS: APU RECEIVED C CHECK AT SHOP VISIT.



.
:0822214225 101608 0347
```

UNITED

PSEN442A-1 UNITED AIRLINES ENGINE MAINTENANCE SYSTEM PAGE 1
06/30/13 COMPOSITION LIST FOR UNIT TIME 21.30

REASON: REMOVAL REQUESTOR: PSEN440A PHONE: ORG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V539 MODULE TYPE MODULE NAME WORK CENTER 551

WORK CENTER. 551 TSLV. 03070 CSLV: 04199 TSLM. 03070 CSLM. 04199

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V539	N668UA	APU	GSO	APU HAS LOW BLEED PRESSURE	06/30/13

UNIT ACCUMULATIONS

								LIMITS THIS EMO	WTY
18025	TSN	23603	CSN	UNK	TSAPUSAM1	UNK	CSAPUSAM1	A	
UNK	TSAPUSAM2	UNK	CSAPUSAM2	UNK	TSAPUSAM3	UNK	CSAPUSAM3		

UNIT'S COMPOSITION

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS						LIMITS THIS EMO	WTY
DRIVEN COMP SE	F	P-1168	27617 TSN	36906 CSN	03070 TSMI	04199 CSMI				
			03070 TSMDPI	04199 CSMDPI						
POWER SECTION	N	P-1266	25657 TSN	32425 CSN	03070 TSMI	04199 CSMI				
			UNK TSRE-BUILD	UNK CSRE-BUILD						
GEARBOX ASSMBLY	A	P209	27318 TSN	36468 CSN	03070 TSMI	04199 CSMI				
			03941 TSMDPI	05720 CSMDPI						

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS						LIMITS THIS EMO	WTY	UNATH PRT
05650 C01	P-1122	UNK	TSN	UNK	CSN	03941 TSDPI				
FAN -SHROUDED R	3616959-6	05720 CSDPI								

REASON: REMOVAL REQUESTOR: PSEN440A PHONE: ORG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V539 MODULE TYPE MODULE NAME WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V539	N668UA	APU	QSO	APU HAS LOW BLEED PRESSURE	06/30/13

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	LIMITS WTY
DRIVEN COMP SE	F	P-1166	27617 TSN	36906 CSN	03070 TSMI	04199 CSMI		
			03070 TSMDPI	04199 CSMDPI				

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	LIMITS WTY	UNATH PRT
00988 001	UA00481274	UNK TSN	UNK CSN	03070 TSDPI			
IGV ASSY VARIBL	3810231-21	04199 CSDPI					
00989 001	0365103273	09855 TSN	14168 CSN	03070 TSDPI		YES	
IMPELLER-DRCOMP	3822080-3	04199 CSDPI					
05760 001	09-S-08639	03070 TSN	04199 CSN	03070 TSDPI		YES	
BRNG-D/C THRUST	3613827-1	04199 CSDPI					
05746 001	09-0-17651	03070 TSN	04199 CSN	03070 TSDPI		YES	
BRNG-D/C ROLLER	3822099-1	04199 CSDPI					

UNITED

PSEN442A-1 UNITED AIRLINES ENGINE MAINTENANCE SYSTEM PAGE 3
06/30/13 COMPOSITION LIST FOR LOWER ASSEMBLY TIME. 21.30

REASON: REMOVAL REQUESTOR: PSEN440A PHONE: ORG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V539 MODULE TYPE MODULE NAME WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST
62697	V		APU331	200E	UA UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V539	N668UA	APU	GSO	APU HAS LOW BLEED PRESSURE	06/30/13

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	LIMITS WTY
POWER SECTION	N	P-1266	25657 TSN	32425 CSN	03070 TSMI	04199 CSMI		
			UNK TSRE-BUILD	UNK CSRE-BUILD				

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	LIMITS WTY	UNATH PRT
05719 001	00224	03070 TSN	04199 CSN	03070 TSDPI		YES	
BRNG,P/S-THRUST	3613827-1WE	04199 CSDPI					
05720 001	09-0-14166	03070 TSN	04199 CSN	03070 TSDPI		YES	
BRNG,P/S-ROLLR	3822099-1	04199 CSDPI					
00993 001	9-501-2130	UNK TSN	UNK CSN	03070 TSDPI			
C1 COMP IMPELLR	3822067-2	04199 CSDPI					
00995 001	0-3501-896	25637 TSN	32342 CSN	03070 TSDPI			
C2 COMP IMPELLR	3822068-1	04199 CSDPI					
01002 001	15-229332R	UNK TSN	UNK CSN	03070 TSDPI			
COMB CHMBANNULR	3830051-5	04199 CSDPI					
01005 001	09-3-00305	03070 TSN	04199 CSN	03070 TSDPI		YES	
T1 STATOR VANE	3844038-4	04199 CSDPI					
01009 001	0234510215	10327 TSN	18885 CSN	03070 TSDPI			
T3 WHEEL ASSY	3840022-4	04199 CSDPI					
01007 001	0350101634	13387 TSN	12417 CSN	03070 TSDPI			
DISK T2 TURBINE	3840007-1	04199 CSDPI					
01004 001	0235702427	09539 TSN	15852 CSN	03070 TSDPI		YES	
DISK T1 TURBINE	3840019-1	04199 CSDPI					
01014 001	UA00489495	03070 TSN	04199 CSN	03070 TSDPI	B		
NOZZLE SET PRIM	331NOZPRI1	04199 CSDPI					

REASON: REMOVAL
SERIAL NUMBER 62697
ORDER NUMBER V539

ENGINE TYPE V
MODULE TYPE

REQUESTOR: PSEN440A
ENGINE NAME APU331
MODULE NAME

PHONE:

ORG:

CUST CODE UA
WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER CODE	CUST	
62697		V	APU331		UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V539	N668UA	APU	GSO	APU HAS LOW BLEED PRESSURE	06/30/13

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS				LIMITS THIS EMO	WTY	UNATH PRT
01015 001	UA00489503	UNK	TSN	UNK	CSN	03070 TSOPI	8	
NOZZLE SET SECD	331NOZSEC1	04199 CSOPI						

REASON: REMOVAL REQUESTOR: PSEN440A PHONE: ORG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V539 MODULE TYPE MODULE NAME WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V539	N668UA	APU	GSO	APU HAS LOW BLEED PRESSURE	06/30/13

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	LIMITS WTY
GEARBOX ASSMBLY	A	P209	27318 TSN	36468 CSN	03070 TSMI	04199 CSMI		
			03941 TSMDPI	05720 CSMDPI				

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS					LIMITS THIS EMO	LIMITS WTY	UNATH PRT
00987 001	9P-16254	UNK	TSN	UNK	CSN	03941 TSDPI			
GEARBOX HOUSING	3862699-3	05720 CSDPI							

* * * END OF REPORT FOR ENG - V MT - SN - 62697 * * *

REASON: AT REMOVAL — REQUESTOR: REMOVAL — PHONE: — ORG:
SERIAL NUMBER 62697 — ENGINE TYPE V — ENGINE NAME APU331 — CUST CODE UA
ORDER NUMBER V539 — MODULE TYPE — MODULE NAME — WORK CENTER 551

WORK CENTER. 551 TSN. 18025 CSN. 23603 TSLM. 03070 CSLM. 04199 TSLV. 03070 CSLV. 04199

SERIAL NBR	ET	MT	NAME	POWER	CUST	LIMIT TYPE	LIMIT VALUE	UNIT	ACCUMULATION	REMAINING VALUE	LIMIT IN NLA UNIT	* HARD LIMIT NLA LOWEST REMAINING
62697	V		APU331	200E	UA	A	002000	UNK	TSAPUSAM2	******	B	
						A	001000	UNK	TSAPUSAM1	******		C 04148
REASON MAINT: APU HAS LOW BLEED PRESSURE						A	003000	UNK	TSAPUSAM3	******		

MODULE LIMIT SUMMARY - HARD AND THRESHOLD

NAME	MT	SERIAL NBR	COMMENTS	LIMIT TYPE	LIMIT VALUE	MODULE ACCUMULATION	REMAINING VALUE	LIMIT IN NLA UNIT	HARD LIMIT NLA LOWEST REMAINING
DRIVEN COMP SE	F	P-1166							
POWER SECTION	N	P-1266						B	C 04148
GEARBOX ASSMBLY	A	P209							

REASON: AT REMOVAL — REQUESTOR: REMOVAL — PHONE: — ORG:
SERIAL NUMBER 62697 — ENGINE TYPE V — ENGINE NAME APU331 — CUST CODE UA
ORDER NUMBER V539 — MODULE TYPE — MODULE NAME — WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST
62697	V		APU331	2CGE	UA

ORDER NUMBER	REASON REMOVED OR MAINTENANCED	DATE MAINT
V539	APU HAS LOW BLEED PRESSURE	06/30/13

FUNCTION LIMITS BY NHA - HARD AND THRESHOLD

NHA NAME — MT — SERIAL NBR

POWER SECTION — N — P-1266

FUNC POS NAME	SERIAL NBR PART NUMBER	COMMENTS	LIMIT TYPE	LIMIT VALUE	FUNCTION ACCUMULATION	REMAINING VALUE
01009 001 T3 WHEEL ASSY	02345102I5 3840022-4	(02013451021I5)	H	025000	18885 CSN	06115
			B	005000	04199 CSDPI	00801
01007 001 DISK T2 TURBINE	0350101634 3840007-1	LOT 303983	H	020000	12417 CSN	07583
			B	005000	04199 CSDPI	00801
01004 001 DISK T1 TURBINE	02357O2427 3840019-1		H	020000	15852 CSN	04148
			B	005000	04199 CSDPI	00801
01014 001 NOZZLE SET PRIM	UA00489495 331NOZPRI1		B	000001	03070 TSDPI	******
01015 001 NOZZLE SET SECD	UA00489503 331NOZSEC1		B	000001	03070 TSDPI	******

UNITED

PSEN443A
06/30/13

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
THRESHOLD LIMIT REPORTS FOR UNIT

REASON: AT REMOVAL
SERIAL NUMBER 62697
ORDER NUMBER V539

ENGINE TYPE V
MODULE TYPE

REQUESTOR: REMOVAL
ENGINE NAME APU331
MODULE NAME

PHONE:
CUST CODE UA
WORK CENTER 551

ORG:

WORK CENTER. 551 TSN. 18025 CSN. 23603 TSLM. 03070 CSLM. 04199 TSLV. 03070 CSLV. 04199

SERIAL NBR	ET	MT	NAME	POWER	CUST	LIMIT TYPE	UNIT ACCUMULATION		NLA LIMITS THIS EMO
62697	V		APU331	200E	UA	A	UNK	TSAPUSAM2	B
						A	UNK	TSAPUSAM1	
						A	UNK	TSAPUSAM3	

REASON MAINT: APU HAS LOW BLEED PRESSURE

MODULE THRESHOLD LIMIT SUMMARY

NAME	MT	SERIAL NBR	COMMENTS	LIMIT TYPE	MODULE ACCUMULATION	NLA LIMITS THIS EMO
POWER SECTION	N	P-1266				B

REASON: AT REMOVAL
SERIAL NUMBER 62697 ENGINE TYPE V REQUESTOR: REMOVAL PHONE: ORG:
ORDER NUMBER V539 MODULE TYPE ENGINE NAME APU331 CUST CODE UA
MODULE NAME WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST
62697	V		APU331	2006	UA

ORDER NUMBER	REASON REMOVED OR MAINTENANCED	DATE MAINT
V539	APU HAS LOW BLEED PRESSURE	06/30/13

FUNCTION THRESHOLD LIMITS BY NHA

NHA NAME MT SERIAL NBR

POWER SECTION N P-1266

FUNC NAME	POS	SERIAL NBR / PART NUMBER	COMMENTS	LIMIT TYPE	LIMIT VALUE	FUNCTION ACCUMULATION
01014	001	UAC0489495		B	000001	03070 TSDPI
NOZZLE SET PRIM		331NOZPRI1				
01015	001	UA00489503		B	000001	03070 TSDPI
NOZZLE SET SECD		331NOZSEC1				

UNITED

PSEN443A
06/30/13

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
DISC SHEET AND HARD LIMIT REPORT

REASON: AT REMOVAL
SERIAL NUMBER 62697
ORDER NUMBER V539

ENGINE TYPE V
MODULE TYPE

REQUESTOR: REMOVAL
ENGINE NAME APU331
MODULE NAME

PHONE:
CUST CODE UA
WORK CENTER 551

ORG:

WORK CENTER. 551 TSN. 18025 CSN. 23603 TSLM. 03070 CSLM. 04199 TSLV. 03070 CSLV. 04199

SERIAL NBR	ET	MT	NAME	POWER	CUST	LIMIT VALUE	HARD LIMIT UNIT ACCUMULATION	REMAINING VALUE	NLA LOWEST REMAINING VALUE
62697	V		APU331	200E	UA				C 04148

ORDER NUMBER	REASON REMOVED OR MAINTENANCED	DATE MAINT
V539	APU HAS LOW BLEED PRESSURE	06/30/13

MODULE HARD LIMIT SUMMARY

NAME	MT	SERIAL NBR	COMMENTS	LIMIT VALUE	HARD LIMIT MODULE ACCUMULATION	REMAINING VALUE	NLA LOWEST REMAINING VALUE
POWER SECTION	N	P-1266					C 04148

REASON: AT REMOVAL
SERIAL NUMBER 62697
ORDER NUMBER V539
ENGINE TYPE V
MODULE TYPE
REQUESTOR: REMOVAL
ENGINE NAME APU331
MODULE NAME
PHONE:
ORG:
CUST CODE UA
WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST
62697	V		APU331	200E	UA

ORDER NUMBER	REASON REMOVED OR MAINTENANCED	DATE MAINT
V539	APU HAS LOW BLEED PRESSURE	06/30/13

FUNCTION HARD LIMITS BY NHA

NHA NAME MT SERIAL NBR

POWER SECTION N P-1266

FUNC POS NAME	SERIAL NBR PART NUMBER	HARD LIMIT VALUE	FUNCTION ACCUMULATION		REMNG VALUE	REPLACE YES	REPLACE NO	ASSIGNED SERIAL NO	REM HRS	LIFE CYLS	DISC DISP
01009 001 T3 WHEEL ASSY	0234510215 3840022-4	025000	18885	CSN	06115						
01007 001 DISK T2 TURBINE	0350101634 3840007-1	020000	12417	CSN	07583						
01004 001 DISK T1 TURBINE	0235702427 3840019-1	020000	15852	CSN	04148						

REASON: AT REMOVAL
SERIAL NUMBER 62697
ORDER NUMBER V539
EFFECTIVE MODEL V-UA-ESV

ENGINE TYPE V
MODULE TYPE

REQUESTOR: REMOVAL
ENGINE NAME APU331
MODULE NAME

PHONE:
CUST CODE UA
WORK CENTER 551

ORG:

ALL LIFE LIMITED PARTS MEET BUILD LIMITS

ALL LIFE LIMITED PARTS MEET TEARDOWN GOALS

*** END OF REPORT FOR ENG - V MT - SN - 62697

UNITED

PSEN442A-1 UNITED AIRLINES ENGINE MAINTENANCE SYSTEM PAGE 1
09/12/13 COMPOSITION LIST FOR UNIT TIME. 21 30

REASON: INSTALLATION REQUESTOR: MCCOMP PHONE: ORG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V539 MODULE TYPE MODULE NAME WORK CENTER 551

WORK CENTER. 551 TSLV. 03070 CSLV. 04199 TSLM. 03070 CSLM. 04199

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V539	N608UA	APU	QSO	APU HAS LOW BLEED PRESSURE	06/30/13

UNIT ACCUMULATIONS

				LIMITS THIS EMQ	LIMITS WTY
18025 TSN	23603 CSN	00000 TSAPUSAM1	00000 CSAPUSAM1		
00000 TSAPUSAM2	00000 CSAPUSAM2	00000 TSAPUSAM3	00000 CSAPUSAM3		

UNIT'S COMPOSITION

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMQ	LIMITS WTY
DRIVEN COMP SE	F	P-1985	18556 TSN	27490 CSN	00000 TSMI	00000 CSMI		
			00000 TSMDPI	00000 CSMDPI				
POWER SECTION	N	P1392	25892 TSN	29050 CSN	00000 TSMI	00000 CSMI		
			00000 TSRE-BUILD	00000 CSRE-BUILD				
GEARBOX ASSMBLY	A	P1536	29385 TSN	36105 CSN	00000 TSMI	00000 CSMI		
			00000 TSMDPI	00000 CSMDPI				

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMQ	WTY	UNATH PRT
05650 001	P-2096	UNK TSN	UNK CSN	00000 TSDPI			
FAN -SHROUDED R	3616959-6	00000 CSDPI					

REASON: INSTALLATION REQUESTOR: MOCOMP PHONE: ORG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V539 MODULE TYPE MODULE NAME WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V539	N668UA	APU	GSO	APU HAS LOW BLEED PRESSURE	06/30/13

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	LIMITS WTY
DRIVEN COMP SE	F	P-1985	18556 TSN	27490 CSN	00000 TSMI	00000 CSMI		
			00000 TSMDPI	00000 CSMDPI				

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	LIMITS WTY	UNATH PRT
00988 001	UAOO315683	17048 TSN	23560 CSN	00000 TSDPI			
IGV ASSY VARIBL	3910231-21	00000 CSDPI					
00989 001	0650109938	05613 TSN	09896 CSN	00000 TSDPI		YES	
IMPELLER-DRCOMP	3822080-3	00000 CSDPI					
05780 001	11-5-09334	00000 TSN	00000 CSN	00000 TSDPI		YES	
BRNG-D/C THRUST	3613827-1	00000 CSDPI					
05746 001	1355-06205	00000 TSN	00000 CSN	00000 TSDPI		YES	
BRNG-D/C ROLLER	3822099-1	00000 CSDPI					

REASON: INSTALLATION — REQUESTOR: MCCOMP — PHONE: — ORG:
SERIAL NUMBER 62697 — ENGINE TYPE V — ENGINE NAME APU331 — CUST CODE UA
ORDER NUMBER V539 — MODULE TYPE — MODULE NAME — WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST
62697		V	APU331	2000	UA UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V539	N668UA	APU	GSO	APU HAS LOW BLEED PRESSURE	06/30/13

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS			LIMITS THIS EMD	WTY
POWER SECTION	N	P1392	25892 TSN	29050 CSN	00000 TSMI 00000 CSMI		
			00000 TSRE-BUILD	00000 CSRE-BUILD			

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMD	WTY	UNATH PRT
05719 001 BRNG,P/S-THRUST	F13-3272 3613827-1WE	00000 TSN 00000 CSDPI	00000 CSN	00000 TSDPI		YES	
05720 001 BRNG,P/S-ROLLR	SN55-06235 3822099-1	00000 TSN 00000 CSDPI	00000 CSN	00000 TSDPI		YES	
00993 001 C1 COMP IMPELLR	0385101491 3822067-2	UNK TSN 00000 CSDPI	UNK CSN	00000 TSDPI			
00995 001 C2 COMP IMPELLR	0322900940 3822068-1	UNK TSN 00000 CSDPI	UNK CSN	00000 TSDPI			
01002 001 COMB CHMBANNULR	48222858 3830051-5	UNK TSN 00000 CSDPI	UNK CSN	00000 TSDPI			
01005 001 T1 STATOR VANE	13-3-02331 3844038-4	00000 TSN 00000 CSDPI	00000 CSN	00000 TSDPI		YES	
01009 001 T3 WHEEL ASSY	0734502190 3840022-4	06780 TSN 00000 CSDPI	11789 CSN	00000 TSDPI			
01007 001 DISK T2 TURBINE	0350101589 3840007-1	09152 TSN 00000 CSDPI	15336 CSN	00000 TSDPI		YES	
01004 001 DISK T1 TURBINE	0385703907 3840019-1	12038 TSN 00000 CSDPI	12823 CSN	00000 TSDPI			
01014 001 NOZZLE SET PRIM	UA00509349 331NOZPRI1	UNK TSN 00000 CSDPI	UNK CSN	00000 TSDPI			

UNITED

PSEN442A-1 UNITED AIRLINES ENGINE MAINTENANCE SYSTEM PAGE 4
09/12/13 COMPOSITION LIST FOR LOWER ASSEMBLY TIME. 21.30

REASON: INSTALLATION REQUESTOR: MOCOMP PHONE: ORG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V539 MODULE TYPE MODULE NAME WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V539	N668UA	APU	GSO	APU HAS LOW BLEED PRESSURE	06/30/13

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS	LIMITS THIS EMO	WTY	UNATH PRT
01015 001	UA00509350	UNK TSN UNK CSN 00000 TSOPI			
NOZZLE SET SECD	331N025EC1	00000 CSOPI			

REASON: INSTALLATION REQUESTOR: MOCOMP PHONE: ORG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V539 MODULE TYPE MODULE NAME WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V539	N668UA	APU	GSO	APU HAS LOW BLEED PRESSURE	06/30/13

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	WTY
GEARBOX ASSMBLY	A	P1536	29385 TSN	36105 CSN	00000 TSMI	00000 CSMI		
			00000 TSMDPI	00000 CSMDPI				

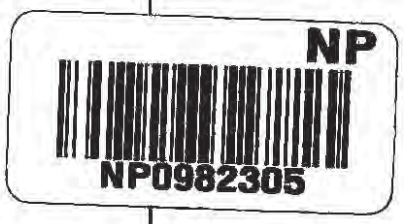
FUNC NAME	POS	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	WTY	UNATH PRT
00987 001		12-1-33184	00185 TSN	00164 CSN	00000 TSDPI		YES	
GEARBOX HOUSING		3862699-3	00000 CSDPI					

* * * END OF REPORT FOR ENG - V MT - SN - 62697 * * *

Index Form

=4/23/15
3 01:40PM

Doc. Type:	**TAG**
Tracking Number:	NP0982305
Activity Date:	**08/22/13**
Doc Number:	**EON: V539**
Ref Doc:	
Aircraft Number:	
MFG P/N:	
M&E :	
S/N:	**2697**
OP Step:	
Station:	
ATA Code:	
Fleet:	
Vendor Code:	
Package Type:	**ESV**
Package Date:	**08/22/13**
Comments:	**APU-200**
PREPPED BY :	**RITA PAZ** — **YOUR NAME HERE**
PREPPED DATE:	**4/3/2015** — **TODAY'S DATE**



UAL ENGINE / APU ROM Index
Vendor Imaging Systems Control Sheet Version

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2	01	☑	Serviceable Engine & Module Tag
	02	☑	Engine I & R Tags
	03	☑	Module I & R Tags
	04	☐	Non Routine's
	05	☐	Engine Customer Maintenance Tags
	06	☐	Module Customer Maintenance Tags
3	01	☐	Engine Job Instruction Cards
4	01	☐	Module Job Instruction Cards

A	B	C	D	E	F	G
H	I	J	K	L	M	N
P	Q	R	S	T	U	V
W	X	Y				

5	01	☐	COA'S
6	01	☐	Engine Inspection & Condition Sheet, Miscellaneous Documents
	02	☐	Fulfillment Center ICS
7	01	☐	Module Inspection & Condition Sheet

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W	X	Y				

8	01	☐	AD Verification - Checklist
	02	☐	Unit Hard Limit Report
9	01	☐	Final Accountability and Test Cell JIC's
10	01	☐	D-199 (Records Certification)
	02	☐	8130 or ENGVST meter (Engine Certification)
11	01	☐	Customer Documents
12	01	☐	Removal Composition Report
	02	☐	Limit Planning Report
	03	☐	Installation Composition Report

FV535 QC18617

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-9103	3804002-11	Compressor Drum	DASH NO ON	MFG SER NO. P-1985 / UTSO ϕ

MAINT SHOPS	PS												HOME SHOP	SHIP CONT	BATCHABLE	R
QC18617	X	QC18617	7870										551			

DATE SERVICEABLE: 02 AUG. 2013 / QUANTITY: 1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		1X539 / 62697	P	APU	8/19/13	STOP B

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

#105539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY QC18617

ON V539

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

AV534 4059087

UNITED
I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265 9104	3862180-21-4004	ACCY GEARBOX	DASH NO ON –	MFG SER NO P1536

UTSO: Ø

MAINT SHOPS	PS											HOME SHOP: 552	SHIP CONT	BATCHABLE	
4059087	X	4059087	7089									DATE SERVICEABLE: 30 SEP 2013		QUANTITY: 1 EA	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAA'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		1539/62697	P	APU	8/19/13	SFOPB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME
2 ☐ TROUBLE
3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

#105539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY 0618617

ON V539

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL * 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

NV 532 QC18617

UNITED
I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265 9102	380 1003-8	Power Section	DASH NO ON	MFG SER NO P1392 / UTSO 0

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
QC18617	X	QC18617	5810									DATE SERVICEABLE 13 AUG 2013		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPECS & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO 539 / 62697	NHA CODE* P	POSITION APU	DATE 8/19/13	STA SFOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME
2 ☐ TROUBLE
3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO. #105539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY [illegible]

ON V539

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
645-0019	MR49512	oil cooler	DASH NO ON	MFG SER NO 39 / UTSO

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
7066	X	7066										552			

DATE SERVICEABLE: 6-20-13 | QUANTITY: 1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		V539 / 62697	P	APU	8/19/13	TOPB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

#105539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS *IN THIS AREA* Repaired by OSV 7066

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

SHIP IN CONTAINER
RCS CONTROLLED PART

UNITED
I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
643	0563	MR47532 VALVE	DASH NO ON 5	MFG SER NO P-276

UTSO: G

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE
	D	B76	M35	B78								B78	RF	N N

	X	**VENDOR REPAIRED**	DATE SERVICEABLE 8/19/13 — QUANTITY 1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO.	PLANE TSO	NHA PCN AND DASH NO	NHA CODE	POSITION	DATE	STA
		V539 / 62697	P	APU	8/19/13	FOPB

REMOVAL CODE SEE BACK OF YELLOW STUB
1 ☐ TIME
2 ☐ TROUBLE
3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

SIGNATURE (OR STAMP) & FILE NO. [illegible] 186589

REPORTABLE UNIT-MRDATA TRANSACTION REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIRED BY OSV VENDOR WORK REC AND 8130-3 ON FILE P/O # S9887822051

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1☐ YES 2☐ NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL? 5☐ YES 6☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE - OTHER SIDE OF TAG

DISPOSITION 1☐ OVERHAULED 2☐ SERVICEABLE 3☐ TO VENDOR 4☐ SCRAPS/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

RCS CONTROLLED PART

HARD TIME UNIT-SERVICEABLE

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
643	0129 3289504-2-600U	VALV	DASH NO ON —	MFG SER NO 46458R

UTSO

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE
	□	878	N35	878								878	000	N
	X	VENDOR REPAIRED										DATE SERVICEABLE 26-JUN-2013		QUANTITY 1EA

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		V539/62697	P	APU	8/19/13	SFOFB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 □ TIME

2 □ TROUBLE

3 □ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO

10539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIRED BY OSV VENDOR WORK REC AND 8130-3 ON FILE P/O # 5988-782-1429

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

RCS CONTROLLED PART

UNITED
I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265	9157	MR49115 MIDDLE	DASH NO ON 40	MFG SER NO SX6607A / UTSO G

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE
	0	876	N35	876								876	000	N C
	X	VENDOR REPAIRED										DATE SERVICEABLE JUN 20 2013		QUANTITY ONE

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA BCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		1639/62697	P	APU	6/19/13	SFO

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME
2 ☐ TROUBLE
3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

NOT

SIGNATURE (OR STAMP) & FILE NO.

REPORTABLE UNIT-MRDATA TRANSACTION REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIRED BY OSV VENDOR WORK REC AND 8130-3 ON FILE P/O # S9888312.111

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1☐ YES 2☐ NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL? 5☐ YES 6☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE - OTHER SIDE OF TAG

DISPOSITION 1☐ OVERHAULED 2☐ SERVICEABLE 3☐ TO VENDOR 4☐ SCRAPS/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

RCS CONTROLLED PART

HARD TIME UNIT-SERVICEABLE

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
643	0130	3616848-2 VAL	DASH NO ON	MFG SER NO 0951 / UTSO

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
	R	263										263	000	N	0
	X	Vendor Repaired										DATE SERVICEABLE 24 APR 2013		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPECS & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE	POSITION	DATE	STA
		V639/62697	P	APU	4/19/13	SFOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

#10539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIRED BY OSV VENDOR WORK REC AND 8130-3 ON FILE P/O # S982-631-7939

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
643-1179	3876166-1		DASH NO ON	MFG SER NO / UTSO

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
	X											DATE SERVICEABLE		QUANTITY	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		V539/62697	P	APU	8/19/13	SFOPB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY.

STORES ISSUE

JUL 31 2013

SIGNATURE (OR STAMP) & FILE NO.

NEW PART 105539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA PO# 643-1179-0034 SK07

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

-MOVE, SHIP & STORE IN CONTAINER * DANGEROUS GOODS
RCS CONTROLLED PART HARD TIME UNIT-SERVICEABLE

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
621	9004 MR49305	CONTROL	DASH NO ON -128	MFG SER NO A2245 / UTSO G

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE
6334	X	6334	371TL									552	RB-	N M

DATE SERVICEABLE	QUANTITY
11 JUL 2013	1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		1539/62697	P	4W	5/19/13	STOR

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME
2 ☐ TROUBLE
3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

SIGNATURE (OR STAMP) & FILE NO.

E10539

REPORTABLE UNIT-MRDATA TRANSACTION REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1☐ YES 2☐ NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL? 5☐ YES 6☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE - OTHER SIDE OF TAG.

DISPOSITION 1☐ OVERHAULED 2☐ SERVICEABLE 3☐ TO VENDOR 4☐ SCRAPS/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO. _____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-9106	3616959-6	Fan Assy.	DASH NO ON	MFG. SER NO P-2098 / UTSO ∅

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
QC18617	X	QC18617										E74			

DATE SERVICEABLE 8/7/13 — QUANTITY 1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		1539 / 62697	P	APU	8/19/13	SFOPB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO. #105539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

UC18617
ON LOGGED ON
ON V539

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE. BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

N532 QC18617

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-3208	3844011-9	Stator Assy T2	DASH NO ON	MFG SER NO / UTSO: Ø

MAINT SHOPS	PS											HOME SHOP: E24	SHIP CONT	BATCHABLE	
QC18617	X	QC18617										DATE SERVICEABLE: 6-11-13		QUANTITY: 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV532 / 61646	P	APU	8/13/13	SFOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

#70539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-9205	3844040-5	STATOR ASY-T1	DASH NO ON —	MFG SER NO — / UTSO Ø

MAINT SHOPS	PS											552 HOME SHOP	SHIP CONT	BATCHABLE	R
059087	X	059087										DATE SERVICEABLE 7-11-13		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV532/61646	P	APU	8/13/13	SFOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

#105539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALT RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

~V532 DC18617

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF / DASH NO ON	SER NO IF NO DASH / MFG SER NO	UTSO
265-0491	3844053-2	Case Comb			d

MAINT SHOPS	PS	E74										E74 HOME SHOP	SHIP CONT	BATCHABLE	R
DC18617	X	DC18617										DATE SERVICEABLE 6-7-13		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE F SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV532/61646	P	APU	8/13/13	SFOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO. #105539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

NV532 QC18617

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-3356	3822077-4	Shaft tie	DASH NO ON	MFG SER NO:	UTSO: 0

MAINT SHOPS	PS											HOME SHOP: E74	SHIP CONT	BATCHABLE	R
QC18617	X	QC18617										DATE SERVICEABLE: 6-5-13		QUANTITY: 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV532 / 61646	P	APU	6/13/13	SFOPB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

#10539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL * 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

NV929 QC18617

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF / DASH NO ON	SER NO IF NO DASH / MFG SER NO	UTSO
265-0238	3844018-1	Stator Assy T3			ϕ

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
		E74										E24			
QC18617	X	QC18617										DATE SERVICEABLE 6-11-13		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV532/61646	P	APU	8/13/13	SFOPB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO

#105539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

APT RMVLS

SHOP FINDINGS.

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265 · 3144 ·	3844268-4	HEATSHIELD	DASH NO ON —	MFG SER NO — / UTSO Ø

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
	E74											532			
OC69087	X	OC69087										DATE SERVICEABLE 8 13 13		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV532 / 616446	P	APU	8/13/13	STOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

#10539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA _____

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-0321	3882426-1	PRIMARY FUEL MANIFOLD	DASH NO ON —	MFG SER NO — / UTSO 6

MAINT SHOPS	PS	551	HOME SHOP 551	SHIP CONT —	BATCHABLE N	R
	X		DATE SERVICEABLE 12 JUN 2013		QUANTITY 1 EA	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPECS & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE	POSITION	DATE	STA
		NK532/61646	P	APU	8/13/13	SFOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO. #105539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA _____

_____

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

RCS CONTROLLED PART

* DANGEROUS GOODS
HARD TIME UNIT-SERVICEABLE

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
071 0050	MR49410	EXCITER	DASH NO ON —	MFG SER NO 130679 / UTSO 0 G

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE
		551										551	000	N H
	X	371TL										DATE SERVICEABLE		QUANTITY
												OCT 11. 2013		1 EA

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NH532 / 01646	P	APU	5/13/13	STOR

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME
2 ☐ TROUBLE
3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

SIGNATURE (OR STAMP) & FILE NO. H10539

REPORTABLE UNIT-MRDATA TRANSACTION REQUIRED

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1☐ YES 2☐ NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL? 5☐ YES 6☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE - OTHER SIDE OF TAG.

DISPOSITION 1☐ OVERHAULED 2☐ SERVICEABLE 3☐ TO VENDOR 4☐ SCRAPS/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265·0449	3810211-3	Bell-INLET	DASH NO ON —	MFG SER NO —

| MAINT SHOPS | PS | | |

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION *1 ☐ OVERHAULED* *2 ☐ SERVICEABLE* *3 ☐ TO VENDOR* *4 ☐ SCRAP/SURPLUS*

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

IT - 6780
TC - 11739 QC18617
TCR - 13211

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-0223	3840022-4	wheel T3	DASH NO ON	MFG SER NO 07345021 90 / UTSO Ø

MAINT SHOPS	PS												HOME SHOP	SHIP CONT	BATCHABLE	R
QC18617	X	QC18617											E74			
													DATE SERVICEABLE 6-25-13		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPECS & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NW532/61646	P	APU	8/13/13	STOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME
2 ☐ TROUBLE
3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

#10539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY [illegible]
ON 11/532

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

5969700B620 QC18617

UNITED
I & R TAG

PCN	PART NO	NAME	DASHED NO OFF / DASH NO ON	SER NO IF NO DASH / MFG SER NO	UTSO
265-0210	3822068-1	impeller C2		03229 00940	ϕ

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
QC18617	X	QC18617										E74			
												DATE SERVICEABLE 7/31/13		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		1W532/61646	P	APU	8/13/13	SFOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME
2 ☐ TROUBLE
3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

#-10539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY QC7556A
ON NW532

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265·3289	3613827-1 AE	Bearing	DASH NO ON —	MFG SER NO F13-3272

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
0C539087	X	0C539087										852		~~UTBO~~ NEW	

DATE SERVICEABLE	QUANTITY
7.10.13	1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV532/616A6	P	APU	8/13/13	SFOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

10539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY [illegible]
ON AN532

ON LOGGED BY [illegible]
ON AN536

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-0462	3822099-1	Roller Brg.	DASH NO ON QC7387 ~~SN55-06235~~	MFG SER NO SN55-06235 UTBC NEW

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
QC7387	X	QC7387										E74			
												DATE SERVICEABLE 6/14/13		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (A/R CARRIER CALA014A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NW532/616146	P	APU	8/13/13	SFOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO. #105539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

FIN — 000323088 QC7387
S/O# — 8K2146 SO1 QC7387

ON LOGGED BY QC7564
ON NV532

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265·3206	3844078-4	VANE-T1 STATOR	DASH NO ON —	MFG SER NO 13-3-02331 ~~UTCO~~ NEW

MAINT SHOPS	PS	E74	HOME SHOP 552	SHIP CONT	BATCHABLE	R
QC69087	X	QC69087	DATE SERVICEABLE 7·1·13		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
			P	APU	07 09 13	SBOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

USED VANE TO BUILD T-1 STATOR ASSY. 3844040-5

SIGNATURE (OR STAMP) & FILE NO.

8007 103516

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

SN 13-150323-02331 QC69087

AE 4.804 QC69087

ON LOGGED BY QC75564

ON N/532

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-3099	331N02PRI1	fuel nozzle set 1	DASH NO ON	MFG SER NO UA00509349 / UTSO 0

MAINT SHOPS	PS	E74										E74 HOME SHOP	SHIP CONT	BATCHABLE	R
QC18617	X	QC18617										DATE SERVICEABLE 7/31/13		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		XV532/61646	P	APU	8/13/13	SFOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

#10539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

ON LOGGED BY [redacted]
ON 4/4/532

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-3097	3830051-5	Chamber Comb	DASH NO ON	MFG SER NO 4622285R / UTSO Ø

MAINT SHOPS	PS	E74	HOME SHOP	SHIP CONT	BATCHABLE	R
0C18617	X	0C18617	DATE SERVICEABLE 6-13-13		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPECS & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		AV5321616-46	P	APU	8/13/13	STOPB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

10539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY 0675564
ON HV532

REPAIR SHOP DATA - *(REQUIRED FOR MR UNITS)*

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

AFT RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-3098	331N02PRI1	Fuel Nozzle set 2	DASH NO ON	MFG SER NO: UA00509350

UTSO: Ø

MAINT SHOPS	PS											HOME SHOP: E74	SHIP CONT	BATCHABLE	R
QC18617	X	QC18617										DATE SERVICEABLE: 7/31/13		QUANTITY: 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV532/61646	P	APU	8/13/13	FOPB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

#105539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY QC15564
ON 11/532

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265·0590 ·	3822060-2 ·	Coupling	DASH NO ON —	MFG SER NO — UTSO 0

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
0030182	X	0030182										552			

DATE SERVICEABLE	QUANTITY
7·3·13	1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO.	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		FV535 / 62486		APU	8, 2, 13	SFOAB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO

113890 7870

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION. 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

1V535 QC18617

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF / DASH NO ON	SER NO IF NO DASH / MFG SER NO	UTSO
765-3012	3810231-21	IGV assy		UA00315683	0

MAINT SHOPS	PS												HOME SHOP	SHIP CONT	BATCHABLE	R
		E74	551										551			
QC18617	X	QC18617	7989										DATE SERVICEABLE 29 JUL 2013		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPECS & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		FV535 / 62486		APU	8 2 13	SFOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

113890 7870

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

ON LOGGED BY [illegible]
ON FV535

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265	0059-3822080-3	Impeller C/C	DASH NO ON —	MFG SER NO 0650109938

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
QC69087	X	QC69087										552		Ø	

DATE SERVICEABLE	QUANTITY
7.5.13	1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		FV535 / 62486		APU	8, 2, 13	SFOBB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

113890 7870

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

Lot 318716 QC69087

SN 0603501099 B QC69087

ON LOGGED BY QC7536A ON FV535

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265·1108	·3613927-1·	Bearing	DASH NO ON —	MFG SER NO 11-5-09739

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
		€74										552			
QC69087	X	QC69087										DATE SERVICEABLE 7·1·13		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		FV535/62486		APU	8 2 13	SFOBB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

113890 7870

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

SN 11-151725-09334 [redacted]

ON LOGGED BY [redacted]
ON FY535

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION. 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
2650462	3822099-1	Roller Brg.	DASH NO ON	MFG SER NO. 1355.06205 UTOC NEW

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
QC7387	X	QC7387										E74			
												DATE SERVICEABLE 6/17/13		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		FV535 / 62486		APU	8,2,13	SFOB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

113890 7870

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

FTN — 00032308 QC7387
W/O — 8K2146 001 QC7387

ON LOGGED BY QC7536
ON AV535

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-346	3810123-8	DGV Cover Assy	DASH NO ON	MFG SER NO / UTSO 0

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
QC7387	X	QC7387										E74		0	
												DATE SERVICEABLE		QUANTITY	
												7/10/13		1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO.	NHA CODE*	POSITION	DATE	STA
		1V535/62486		APU	6 26 13	0700

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

Installed Only

SIGNATURE (OR STAMP) & FILE NO.

7889 290 60

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA Lot # 313168 007387

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265.3147	3810224-12	IGV Hsng. Assy.	DASH NO ON	MFG SER NO / UTSC: 8

MAINT SHOPS	PS											HOME SHOP: E74	SHIP CONT	BATCHABLE: 8	R
QC7387	X	QC7387										DATE SERVICEABLE: 7/10/13		QUANTITY: 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER *CALA014A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128*

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		1V535/62486		AFJ	6/26/13	SFOPB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

Installed Only

SIGNATURE (OR STAMP) & FILE NO.

7989

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA — Lot # 313167 QC7387

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

NV537 [redacted]

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-0457	3822067-2	impeller C1	DASH NO ON	MFG SER NO 03651014911

UTSO: 0

MAINT SHOPS	PS		BAL	Lead								HOME SHOP	SHIP CONT	BATCHABLE
		E74	552	552								E74		
[redacted]	X	[redacted]	7926	371TL								DATE SERVICEABLE 7/18/13		QUANTITY 1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPECS & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	ETA
		NV532 / 61646	P	APU	8/13/13	8:00 PM

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO

#10539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

ON LOGGED BY [illegible]
ON NW532

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

NV532 QC18617 TT - 12035 TC - 12823 TLR - 7177 QC18617 LN 609739 QC18617

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-0224	3840019-1	Disk T1	DASH NO ON	MFG SER. NO. 013570390 7 / UTSO 0

MAINT SHOPS	PS	E24											E24 HOME SHOP	SHIP CONT	BATCHABLE	R
QC18617	X	QC18617											DATE SERVICEABLE 6-25-13		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
			P	APU	6,28,13	SFO PB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

Used disk to build T-1 Wheel Assy

SIGNATURE (OR STAMP) & FILE NO.

1926 050788

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY [illegible]
ON NV537

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF / DASH NO ON	SER NO IF NO DASH / MFG SER NO	UTSO
265	3183	7840002-5	T-1	WHEEL ASSY	

MAINT SHOPS	PS			HOME SHOP	SHIP CONT	BATCHABLE	C R
		552 BAL	552 lead	552	000	N	
FOPB	X	7925	371TL	DATE SERVICEABLE 28 JUN 2013		QUANTITY 1 EA	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV532 / 61646	P	APU	8/13/13	FOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

105539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

9152 TSN 15336 CSN 4664 REM.

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
2650222	3840007-1	T2 DISK	DASH NO ON	MFG SER NO 0350101589

UTSO 4

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
QC75564	X	QC75564										E74			

DATE SERVICEABLE 7/8/13 QUANTITY 1ea

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UNITED SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	*PLANE TSO*	*NHA PCN AND DASH NO*	*NHA CODE**	*POSITION*	*DATE*	*STA*
			P	APU	7.30.13	

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

used disk to build T-2 Wheel Assy

SIGNATURE (OR STAMP) & FILE NO.

7925 08078

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY OC7556
ON NV532

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS.

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF / DASH NO ON	SER NO IF NO DASH / MFG SER NO	UTSO
2-5	0221	384000A-1	T-2 WHEEL Assy		

MAINT SHOPS	PS			HOME SHOP	SHIP CONT	BATCHABLE	
		552 BAL 7926	552 Lead	552	000	N	B R
SFO PB	X		371TL	DATE SERVICEABLE 31 JUL. 2013		QUANTITY 1 EA.	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH *UNITED SPEC'S & CONFORM TO CURRENT FAR'S* WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED (AIR CARRIER CALA014A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV532/61646	P	APU	8/13/13	SFOPB

REMOVAL CODE SEE BACK OF *YELLOW STUB*

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE/OB STAMP & FILE NO

#10539

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE. BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

Shop Visit
United Airlines - Nov. 2010

9100 S. Dadeland Blvd., Suite 1500, Miami, FL 33156 +1-305-271-6650
info@longreach.com www.longreach.com

E 4/23/15
2:55:32 PM

Index Form

Doc. Type:	CD
Tracking Number:	NP0982304
Activity Date:	10/28/10
Doc Number:	EON: V665
Ref Doc:	
Aircraft Number:	
MFG P/N:	
M&E :	
S/N:	2697
OP Step:	
Station:	
ATA Code:	
Fleet:	
Vendor Code:	
Package Type:	ESV
Package Date:	10/28/10
Comments:	APU-200
PREPPED BY :	RITA PAZ — YOUR NAME HERE
PREPPED DATE:	4/3/2015 — TODAY'S DATE

UAL ENGINE / APU ROM Index

Vendor Imaging Systems Control Sheet Version

Section	Item		Description
1	01	☑	Certification form for Scan
2	01	☐	Serviceable Engine & Module Tag
	02	☐	Engine I & R Tags
	03	☐	Module I & R Tags
	04	☐	Non Routine's
	05	☐	Engine Customer Maintenance Tags
	06	☐	Module Customer Maintenance Tags
3	01	☑	Engine Job Instruction Cards
4	01	☑	Module Job Instruction Cards

A	B	C	D	E	F	G
H	I	J	K	L	M	N
P	Q	R	S	T	U	V
W	X	Y				

5	01	☐	COA'S
6	01	☑	Engine Inspection & Condition Sheet, Miscellaneous Documents
	02	☐	Fulfillment Center ICS
7	01	☑	Module Inspection & Condition Sheet

A	B	C	D	E	F	G
H	I	J	K	L	M	N
P	Q	R	S	T	U	V
W	X	Y				

8	01	☑	AD Verification - Checklist
	02	☑	Unit Hard Limit Report
9	01	☑	Final Accountability and Test Cell JIC's
10	01	☑	D-199 (Records Certification)
	02	☐	8130 or ENGVST meter (Engine Certification)
11	01	☐	Customer Documents
12	01	☑	Removal Composition Report
	02	☑	Limit Planning Report
	03	☑	Installation Composition Report

UNITED

RECORDS OF MAINTENANCE

CERTIFICATION FORM

SFOMR/PA Certifies that the *Records of Maintenance* for:

Engine S/N 62697 Order NBR V665

Fleet APU Customer UA Vendor _____

Visit Type ESV Complete or Found As Is (*)and ready for storage and/or scanning (circle which one applies).

Signed Rita Paz
(SFOMR - Maintenance Records Specialist)

*Signed _____
(SFOMR - Maintenance Records Supervisor)

*Dual countersignature by supervisor is needed on this form when "found as is" is circled above.

Date 04-03-15

BOX #

MAYRA FLAHERTY
OCT 2 8 2010

PACKAGE CHECKLIST

Checklist for 331-200 (V)

EON: V665 **S/N**: 62697 **DATE** 10/28/10

JOB NUMBERS		COVER PAGE	CHECK
V0100.0	V665	BASE CHECK	
V0103.0	V	*** ENGINE TEST ***	FINAL
V1000 0	V665	ENGINE DISASSY/ASSY	
V2000.0	NV656	POWER SECTION	
V2005.0	SV	TURBINE SCAVENGE PUMP ASSY 8130	
V3000.0	AV665	ACCY GEARCASE STARTER CLUTCH ASSY	
V5000 0	PV665	OIL PUMP (Pump Assy Lube)	
V6000 0	FV654	LOAD COMPRESSOR	
V6005 0	IV654	IGV ASSY	
V8000 0	NV656	ENGINE BALANCE (Optional)	
V7000 0	LV	STARTER CLUTCH ASSY (Use if different from AV)	

COA	V665	☒ Scheduling Report / ☐ Job Card
COA	NV656	☒ Scheduling Report / ☐ Job Card
COA	AV665	☒ Scheduling Report / ☐ Job Card
COA	FV654	☒ Scheduling Report / ☐ Job Card

BAL ☐ 8130 / ☒ I&R / ☐ LIFE CARD	T1	3840019-1/265-0224 DISK ONLY 0235702427
BAL ☐ 8130 / ☒ I&R / ☐ LIFE CARD	T2	3840007-1/265-0222 DISK ONLY 0350101634
☐ 8130 / ☒ I&R / ☐ LIFE CARD	T3	3840022-4/265-0223 WHEEL ONLY 0234510215
BAL ☐ 8130 / ☒ I&R / ☐ LIFE CARD	IMPLR-C1	3822067-2/265-0457 9-501-2130
BAL ☐ 8130 / ☒ I&R / ☐ LIFE CARD	IMPLR-C2	3822068-1/265-0210 0-3501-896
☐ 8130 / ☒ I&R / ☐ LIFE CARD	IMPLR (FV)	3822080-3/265-0059 0365103273

V1522 0 Give to Inspection to make serviceable (S)
To show in ENGMOD/ENGRVW
For issuance of D199

NOTE TO MR AT 9 00AM

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, BASE CHECK

REV. 4/26/07

V665	62697	V0100.0
ORDER NO	ENGINE NO	JOB NO

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

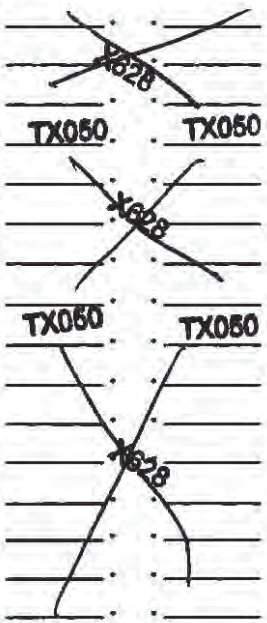
NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT



V0002.0	- NON-ROUTINE ACCOUNTABILITY
V0005.0	PARTS AS-RECVD INVENTORY- CUST/LEASE
V0010.0	MR UNIT/TAG ACCOUNTABILITY LIST
V0101.0	BASE CHECK - PRELIMINARY SERVICE
V0101.1	BASE CHECK - FINAL SERVICE
V0101.2	CSV - C CHECK
V0101.5	BASE CHECK - PRELIM. SERVICE-CUSTOMER
V0101.6	BASE CHECK - FINAL SERVICE-CUSTOMER
V0102.0	BASE CHECK INSPECTION
V0102.1	M.I.S. CLEAN UP

4

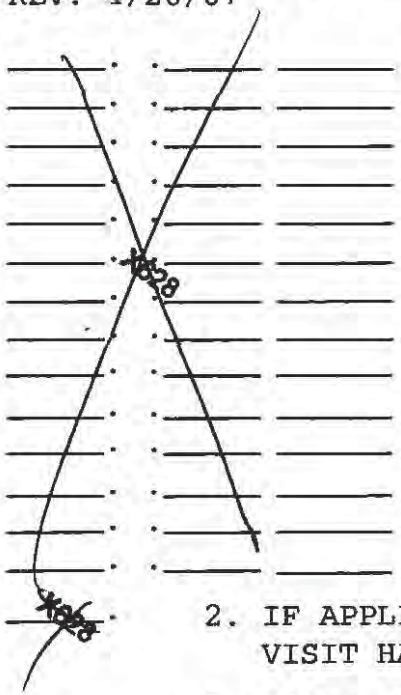
STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, BASE CHECK

REV. 4/26/07

V665	62697	V0100.0
ORDER NO	ENGINE NO	JOB NO



for no COA's X628

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

SIGNATURE: X628 DATE: 9/24/10

END JOB V0100.0 REVISED 4/26/07

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK - PRELIMINARY SERVICE

REV. 7/7/10

V665	62697	V0101.0
ORDER NO	ENGINE NO	JOB NO

NOTE - SET TORQUE WRENCH TO THE TORQUE VALUE SPECIFIED. IF NO TORQUE VALUE IS SPECIFIED, USE STANDARD TORQUE PER GN-8-0-2-14.

CAUTION - SCRAP ANY SELF LOCKING NUT WHICH CAN BE TURNED PAST ITS LOCKING FEATURE BY HAND.

WARNING - REMOVAL OF CHIP DETECTOR HOUSING WILL CAUSE OIL TO DRAIN FROM APU. HOT OIL CAN CAUSE BURNS. TAKE NECESSARY PRECAUTIONS.

M 7239 1. -----C CHECK REQUIRED ITEM----- REMOVE THE FOLLOWING AND CHECK FOR METAL. IF METAL FOUND NOTIFY INSPECTION AND REQUEST JIC V0102.1 FROM SCHEDULE CENTER. REMOVE INLET SCREEN, T-DUCT AND SURGE VALVE ELBOW FOR BOROSCOPE ACCESS. IF METAL NOT FOUND, PROCEED TO NEXT SIGNOFF.

A. GEARBOX MAGNETIC CHIP DETECTOR AND CHIP DETECTOR HOUSING.
METAL FOUND YES _____ NO 7239

B. GENERATOR MAGNETIC CHIP DETECTOR AND CHIP DETECTOR HOUSING.
METAL FOUND YES _____ NO 7239

EMAC 60 4927 004AA 1AC
EMAC 50 4927 004JA 1A
MRB 49-016 - 757
MRB 49-014 - 767

M 7239 2. -----C CHECK REQUIRED ITEM----- REMOVE THE FOLLOWING IF INSTALLED, AND CHECK FOR METAL. IF METAL FOUND, NOTIFY INSPECTION AND REQUEST JIC V0102.1 FROM SCHEDULE CENTER. IF METAL NOT FOUND, PROCEED TO NEXT SIGNOFF.

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK - PRELIMINARY SERVICE

REV. 7/7/10

V665	62697	V0101.0
ORDER NO.	ENGINE NO.	JOB NO

A. TURBINE MAGNETIC CHIP DETECTOR AND CHIP DETECTOR HOUSING.
METAL FOUND YES _____ NO 7239

B. COMPRESSOR MAGNETIC CHIP DETECTOR AND CHIP DETECTOR HOUSING.
METAL FOUND YES _____ NO 7239
EMAC 60 4927 004AE 1A
EMAC 50 4927 004JB 1A
MRB 49-063 - 757

MRB 49-059 - 767

M 7239 3. -----ENGINE SHOP VISIT REQUIRED ITEM-----
REMOVE MONOPOLE AND CHECK FOR METAL AND STRIKE. IF METAL OR STRIKE FOUND, NOTIFY INSPECTION AND REQUEST JIC V0102.1 FROM SCHEDULE CENTER.
IF NEITHER FOUND, PROCEED TO NEXT SIGN-OFF.

METAL FOUND YES _____ NO 7239
STRIKE YES _____ NO 7239

M 7239 4. -----C CHECK REQUIRED ITEM----- VISUALLY CHECK MAIN OIL FILTER DIFFERENTIAL PRESSURE INDICATOR AND RECORD FINDINGS. EXTENDED - YES _____ NO 7239
EMAC 60 4927 007AB 1AC
EMAC 50 4927 007JA 1A
MRB 49-023 - 757
MRB 49-022 - 767

1962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK - PRELIMINARY SERVICE

REV. 7/7/10

V665	62697	V0101.0
ORDER NO	ENGINE NO	JOB NO

M7239 5. -----C CHECK REQUIRED ITEM----- REMOVE OIL FILTER ELEMENT AND CHECK FOR CONTAMINATION OR DAMAGE. IF EITHER CONTAMINATION OR DAMAGE FOUND, NOTIFY INSPECTION. IF OIL FILTER ELEMENT OK, REINSTALL.

NOTE - O-RING MUST BE REPLACED REGARDLESS OF OIL FILTER ELEMENT CONDITION.

METAL FOUND YES _____ NO 7239

EMAC 60 4927 003AC 4A
EMAC 50 4927 003GA 3A
MRB 49-024 - 757
MRB 49-023 - 767
MRB 49-025 - 767

M 7239 6. -----C CHECK REQUIRED ITEM----- VISUALLY CHECK GENERATOR FILTER DIFFERENTIAL PRESSURE INDICATOR AND RECORD FINDINGS. EXTENDED - YES_____ NO 7239

EMAC 60 4927 015JF 1AC
EMAC 50 4927 003JB 1A
MRB 49-025 - 757
MRB 49-024 - 767

M 7239 7. -----ALL SHOP VISIT REQUIRED ITEM-----REMOVE GENERATOR OIL SCAVENGE FILTER AND CHECK FOR METAL. IF METAL FOUND NOTIFY INSPECTION AND REQUEST JIC V0102.1 FROM SCHEDULE CENTER. IF METAL NOT FOUND, REINSTALL OLD FILTER AND PROCEED TO NEXT SIGN-OFF.

METAL FOUND YES _____ NO 7239

EMAC 60 4927 003AI 4A
EMAC 50 4927 003GA 3A
MRB 49-024 - 757
MRB 49-0F 26 767

1962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

_____.

8. BEFORE CONTINUING WITH BASE CHECK SERVICE, CONTACT PLANNING CONTROL CENTER FOR SCHEDULING OF BASE CHECK INSPECTION JIC V0102.0.

I366 I

9. IF ENGINE TO BE COMPLETELY DISASSEMBLED, AND ALL MODULES TO BE ROUTED FOR DISASSEMBLY, NO FURTHER INSPECTION SIGN-OFFS REQUIRED, THEN PROCEED TO STEP 11.

X I I366

10. VISUALLY INSPECT ALL DRIVEN COMPRESSOR IMPELLER BLADES FOR DAMAGE AND/OR IRREGULARITIES, INCLUDING LEADING AND TRAILING EDGE WITH BOROSCOPE. ALSO VISUALLY INSPECT POWER SECTION C1 IMPELLER BLADES FOR DAMAGE AND IRREGULARITIES.

NOTE - NOTIFY SFOEP APU ENGINEERING IF DAMAGE FOUND.

DAMAGE FOUND YES_____ NO_____

M7239

11. -----ALL SHOP VISIT REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 1000 HOURS, REMOVE GENERATOR DIFFERENTIAL PRESSURE SWITCH AND ROUTE TO HOME SHOP.

ROUTED: YES_____ NO 7239
EMAC 50 4927 000JC ASV
EMAC 60 4990 009 ASV
MRB 49-051 - 767

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

M7239 12. -----C CHECK REQUIRED ITEM----- VISUALLY CHECK FUEL FILTER DIFFERENTIAL PRESSURE INDICATOR AND RECORD FINDINGS.

EXTENDED - YES _____ NO 7239

IF INDICATOR EXTENDED, CHANGE FILTER AND RESET INDICATOR.

EMAC 60 4931 010AB 1AC
EMAC 50 4931 004JA 1A
MRB 49-033 - 757
MRB 49-032 - 767

M 7239 13. -----ENGINE SHOP VISIT REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 2000 HRS, THEN REMOVE FLOW SENSING MODULE AND ROUTE TO HOME SHOP.

ROUTED: YES_____ NO 7239

NOTE - IF COA Y95591 HAS NOT BEEN ACCOMPLISHED, ROUTE FLOW SENSE MODULE REGARDLESS OF TIME.

EMAC 60 4953 001 ASV

M 7239 14. DISCONNECT PNEUMATIC LINES FROM ALL COMPONENTS THEN BLOW OUT LINES USING SHOP AIR.

M 7239 15. -----ALL SHOP VISIT REQUIRED ITEM-----
REMOVE PNEUMATIC LINE AND ELBOW FITTING FROM COMPRESSOR INLET PRESSURE SENSOR. BLOW OUT LINE AND FITTING WITH SHOP AIR OR ULTRASONIC CLEAN. MAKE SURE PORT IN INLET PLENUM IS CLEAN WITHOUT DESTRUCTION.

TUBE CLEARED: YES 7239 NO_____

L962 LM 7239 16. -----ALL SHOP VISIT REQUIRED ITEM-----CHECK INLET GUIDE VANE LINKAGE WEAR AS FOLLOWS.

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

331-200 BASE CHECK - PRELIMINARY SERVICE

REV. 7/7/10

V665	62697	V0101.0
ORDER NO	ENGINE NO	JOB NO

A. REMOVE IGVA COVER. VISUALLY CHECK FOR WEAR ON TRUNNION BUSHING. VISABLE WEAR IS CAUSE FOR TRUNNION BUSHING REPLACEMENT.

TRUNNION BUSHING REPLACED YES_____ NO_____

B. REMOVE BOLT ATTACHING BELLCRANK TO LINKAGE ROD END. CHECK FOR WEAR IN BELLCRANK AND FOR DAMAGE OR WEAR TO FORKS. SIDE PLAY AT BELLCRANK PIVOT POINT IS CAUSE FOR BELLCRANK REPLACEMENT. IF BELLCRANK IS REPLACED, REPLACE TRUNNION BUSHING REGARDLESS OF CONDITION.

BELLCRANK REPLACED YES_____ NO_____

NOTE - BELLCRANK PIVOT POINT WEAR HAS BEEN NOTED. ANY PLAY IN BELLCRANK INDICATES PIVOT POINT BEARING WEAR.

C. CHECK TRUNNION BLOCK FOR LOOSENESS WHERE TRUNNION ATTACHES TO BELLCRANK. AXIAL FREEPLAY OF BELLCRANK TO TRUNNION IN EXCESS OF 0.020 INCH IS CAUSE FOR TRUNNION BUSHING REPLACEMENT. IF BELLCRANK IS REPLACED, REPLACE BUSHING REGARDLESS OF CONDITION.
CHECK TRUNNION BLOCK FOR DAMAGE AND REPLACE IF DAMAGED.

TRUNNION BLOCK REPLACED YES_____ NO_____

D. CHECK FOR FREEPLAY IN IGV LINKAGE AND FOR AXIAL PLAY IN ROD ENDS BY MOVING ROD IN AND OUT. AXIAL PLAY UP TO 0.080 INCH WITH NO VISUAL MOVEMENT IN VANES IS ACCEPTABLE.

NOTE - EXCESS FORCE SHOULD NOT BE APPLIED TO OPEN AND CLOSE INLET GUIDE VANES. SIDE PLAY CAUSED BY ROD END BEARING IS NORMAL.

E. REPLACE WORN EXTERNAL PARTS AND REINSTALL IN ACCORDANCE WITH SHOP PROCEDURE 49-25-01/SP AND/OR 49-10-01/SP.

EMAC 60 4952 099AA 2A1C

M 7239 17. -----ALL SHOP VISIT REQUIRED ITEM-----
CHECK PRESSURE RELIEF VALVE COMBUSTOR DRAIN.
REMOVE DRAIN TUBE AND PRESSURE VALVE. CHECK TO SEE IF VALVE CLOSES BETWEEN 10 - 15 PSIG. REPLACE VALVE IF OUT OF LIMIT ON CLOSING PRESSURE.
CAP VALVE IF NOT REINSTALLED.

ACTUAL PSI: 13
VALVE REPLACED YES_____ NO 7239

EMAC 50 4916 001JA ASV
MRB 49-014 - 757

M 7239 18. CHECK LRU CLUTCH FOR FREE ROTATION IN CLOCKWISE DIRECTION AND FOR SLIPPAGE OR BINDING IN COUNTER CLOCKWISE DIRECTION. REPLACE IF ANY SLIPPAGE OR BINDING FOUND.

REPLACED: YES_____ NO 7239

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK - PRELIMINARY SERVICE

REV. 7/7/10

V665	62697	V0101.0
ORDER NO	ENGINE NO	JOB NO

M 7239 19. -----ESV REQUIRED ITEM-----
IF TSLV IS EQUAL TO OR GREATER THAN 2000 HRS TSLSV REMOVE STARTER MOTOR AND ROUTE TO HOME SHOP.

ROUTED: YES_____ NO 7239

NOTE - IF STARTER MOTOR IS P/N 519858-6, ROUTE TO HOME SHOP REGARDLESS OF TIME.

EMAC 50 49 41 001 ESV
EMAC 60 49 41 001JA E

M 7239 20. -----ALL SHOP VISIT REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 1000 HRS THEN REMOVE GEARBOX PRESSURE REGULATING VALVE AND ROUTE. REMOVE GEARBOX REGULATING VALVE ADAPTER AND ROUTE ON ENGINE CART FOR INSPECTION OR CLEANING PER GN 4-0-3-20.

ROUTED: YES_____ NO 7239

EMAC 60 4927 012AG ASV
EMAC 50 4927 012JB ASV
MRB 49-030 - 757
MRB 49-029 - 767

M 7239 21. REMOVE THE IGNITION LEAD AND PLACE ON CART FOR INSPECTION (EID/REPAIR).

M 7239 22. -----ALL SHOP VISIT REQUIRED ITEM----- REMOVE IGNITOR PLUG AND ADAPTER AND DISCARD PLUG AND GASKETS REGARDLESS OF CONDITION. NOTE CONDITION OF REMOVED PLUG BY STAMPING A OR BELOW BELOW:

9962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

A. THE DISTANCE BETWEEN EDGE OF ELECTRODE AND INSIDE OF UNERODED EDGE OF GROUND SHELL TIP IS LESS THAN 0.090 INCH. UNIFORM EROSIION OF ELECTRODE AND OUTER SHELL IS ACCEPTABLE. NO CRACKS OR CHIPPED AREA ON CERAMIC INSULATOR.

7239 B. DISTANCE BETWEEN EDGE OF ELECTRODE AND INSIDE OF UNERODED EDGE OF GROUND SHELL TIP IS GREATER THAN 0.090 INCH. ANY CRACK OR CHIPS ON INSULATION AREA.
ELECTRICAL CONNECTOR PIN BURNED OR BENT.
ANY BROKEN OR MISSING PARTS.
SCRAP PLUG LOCALLY.

EMAC 60 4941 002AA 3A1C

-----ESV REQUIRED ITEM----

M 7239 23. IT TSLV IS GREATER THAN OR EQUAL TO 2000 APU HOURS, THEN REMOVE EXCITER UNIT AND ROUTE TO HOME SHOP.

ROUTED: YES_____ NO 7239

M 7239 24. -----ESV REQUIRED ITEM----- PERFORM HEAT CHECK OF THERMOCOUPLE HARNESS AND RECORD FINDINGS.

LEFT SIDE OPERATIVE - YES 7239 NO_____
RIGHT SIDE OPERATIVE - YES 7239 NO_____

CONNECT EGT GAGE TO THERMOCOUPLE HARNESS, P2 PLUG, PINS 10 AND 24 FOR #1 PAIR AND PINS 11 AND 25 FOR #2 PAIR. USING PORTABLE BOTTLE GAS APPLY LOCALIZED HEAT, 1200 F (650 C) MAXIMUM TO EACH PROBE ONE AT A TIME. EGT GAGE SHOULD RESPOND FOR EACH PROBE. IF ANY PROBE DOES NOT RESPOND TO HEAT CHECK, REPLACE PROBE.

M 7239 25. -----ESV C CHECK REQUIRED ITEM------
CIRCLE AND ACCOMPLISH A OR B BELOW:

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

A. IF TIME SINCE HARNESS INSTALLATION IS GREATER THAN 4 YEARS OR NO DATE TAG, ROUTE HARNESS TO HOME SHOP.

EMAC 60 4914 000AA

7239 B. IF TIME SINCE HARNESS INSTALLATION IS LESS THAN 4 YEARS, CHECK WIRING INSULATION FOR BREAKS OR ABRASIONS AND REPAIR AS NEEDED.
VISUALLY CHECK ALL MAIN HARNESS CONNECTOR SOCKETS FOR EVIDENCE OF ARCING. REPLACE SOCKETS AS NEEDED. (THIS CHECK IS NOT REQUIRED FOR EGT HARNESSES). IF SBV OR LCV CONNECTORS ARE OLD STYLE WITH CERAMIC INSULATOR, CUT OFF AND DISCARD. IF ELECTRICAL SYSTEM FAILS FUNCTIONAL CHECK, ROUTE HARNESS TO HOME SHOP.

EMAC 60 4910 002FC ESV
EMAC 50 4914 000AB ESV

M 7239 26. IF COOLING AIR SHUTOFF VALVE IS PRESENT, NOTIFY SFOEP APU ENGINEERING. REMOVE COOLING AIR SHUTOFF VALVE AND ROUTE TO HOME SHOP. INDICATE BELOW IF VALVE IS INSTALLED:

____ A. COOLING AIR SHUTOFF VALVE INSTALLED.

7239 B. COOLING AIR SHUTOFF VALVE NOT INSTALLED.

NOTE - IF COA Y91710 OR M94260 HAS BEEN ACCOMPLISHED, COOLING FAN SHUT-OFF VALVE HAS BEEN DELETED AND NO ACTION IS REQUIRED.

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK - PRELIMINARY SERVICE

REV. 7/7/10

V665	62697	V0101.0
ORDER NO	ENGINE NO	JOB NO

M 7239 27. -----ESV REQUIRED ITEM-----
IF TSLV IS GREATER THAN 3000 APU HOURS,
REMOVE THE LOW OIL TEMPERATURE SWITCH AND ROUTE
TO HOME SHOP.

ROUTED: YES_____ NO 7239

EMAC 60 4927 014JD ESV
EMAC 50 4927 014JA ESV

M 7239 28. -----ALL SHOP VISIT REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 1000 HRS, THEN
ROUTE GEARBOX SHUTOFF VALVE TO HOME SHOP.

ROUTED: YES_____ NO 7239

M 7239 29. -----ALL SHOP VISIT REQUIRED ITEM-----
IF TSLV IS EQUAL TO OR GREATER THAN 3000 HOURS, REMOVE
SHUTTLE VALVE. DISASSEMBLE VALVE, CLEAN, REPLACE
SEALS, AND REASSEMBLE.

ROUTED: YES_____ NO 7239

L962 LM 7239 30. -----ALL SHOP VISIT REQUIRED ITEM-----
ACCOMPLISH THE FOLLOWING AND CIRCLE A OR B BELOW:

7239 A. COOLING FAN IS NOT LEAKING OIL. PROCEED TO
SIGN-OFF 31.

B. COOLING FAN IS LEAKING OIL.
ROUTE COOLING FAN FOR REPAIR.

FAN ROUTED: YES_____ NO 7239

M 7239 31. -----ESV REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 3000 HOURS
REMOVE FLOW DIVIDER VALVE ASSEMBLY AND ROUTE FOR BENCH
TEST OR REPAIR.

ROUTED: YES_____ NO 7239

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK - PRELIMINARY SERVICE

REV. 7/7/10

V665	62697	V0101.0
ORDER NO	ENGINE NO	JOB NO

M 7239 32. -----C CHECK REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 1000 HOURS
ROUTE OIL COOLER TO HOME SHOP.
ROUTED: YES_____ NO 7239

M 7239 33. -----ALL SHOP VISIT REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 1800 HOURS,
REMOVE SURGE CONTROL VALVE AND ROUTE TO HOME SHOP.
ROUTED: YES_____ NO 7239

M 7239 34. -----ALL SHOP VISIT REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 1000 HOURS,
REMOVE LOW OIL PRESSURE SWITCH AND ROUTE TO HOME SHOP.
ROUTED: YES_____ NO 7239

M 7239 35. -----ESV REQUIRED ITEM----
IF TSLV IS GREATER THAN OR EQUAL TO 3000 APU HRS,
REMOVE THE FUEL CONTROL FOR BENCH TEST.
ROUTED: YES_____ NO 7239

M 7239 36. -----C CHECK REQUIRED ITEM-----
IF TSLV IS GREATER THAN OR EQUAL TO 3000 APU HRS,
REMOVE THE COMPRESSOR INLET PRESSURE SENSOR (P2)
AND ROUTE TO HOME SHOP.
ROUTED: YES_____ NO 7239
EMAC 60 4961 004JA 1C
EMAC 50 4961 004JA 1C

M 7239 37. -----ALL SHOP VISIT REQUIRED ITEM-----
IF TSLV IS GREATER OR EQUAL TO 3000 APU HOURS, REMOVE
DE-OILER SOLENOID AND ROUTE TO HOME SHOP.
ROUTED: YES_____ NO 7239

END JOB V0101.0 REVISED 7/7/10

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK INSPECTION

REV. 1/7/09

V665	62697	V0102.0
ORDER NO	ENGINE NO	JOB NO.

THE FOLLOWING ARE INSPECTED TO SATISFY "C" CHECKS AND BASE ENGINE CHECK REQUIREMENTS PER GTCP331 EID 49-10-01/I00 AND INTRODUCTION/POLICY SECTION IN BOOK "0". INITIATE NON-ROUTINE (SFR4129) AS REQUIRED AND/OR RE-REVIEW ENGINE TO ACCOMPLISH CORRECTIVE ACTION.

I366 I 1. REVIEW OPEN ELR ITEMS USING "ENGWRK" IN AMIS. STAMP A, B, OR C.

X I I366 A. CUSTOMER ENGINE. NOT APPLICABLE. PROCEED TO NEXT ITEM.

I366 I B. ELR ITEMS NOT PRESENT. PROCEED TO NEXT ITEM.

X I I366 C. TRANSFER "ELR" ITEMS TO NON ROUTINES AND LIST BELOW. ACCOMPLISH "ENDATA" TRANSACTION TO CLEAR ELR ITEMS.

ELR	NON ROUTINE	ELR	NON ROUTINE

I366 I 2. STAMP A OR B BELOW.

____ I A. ENGINE TO REMAIN IN STALL. PROCEED TO NEXT ITEM.

I366 I B. POWER SECTION TO BE COMPLETELY DISASSEMBLED. ALL MODULES TO BE ROUTED FOR DISASSEMBLY OR ROUTED WITH ENGINE EXTERNALS FOR MODULE INSPECTION. NO FURTHER SIGN-OFFS REQUIRED.

____I	3. VISUALLY INSPECT DRIVEN COMPRESSOR IMPELLER BLADES INCLUDING LEADING AND TRAILING EDGES FOR DAMAGE WITH BORESCOPE.
____I	4. VISUALLY INSPECT POWER SECTION C1 IMPELLER BLADES FOR DAMAGE AND IRREGULARITIES.
____I	5. VISUALLY CHECK INLET OF DRIVEN COMPRESSOR AND POWER SECTION FOR DAMAGE.
____I	6. VISUALLY INSPECT EXPOSED AREAS OF GEARBOX.
____I	7. VISUALLY INSPECT POWER SECTION INSULATION BLANKET AND HEAT SHIELD EXPOSED AREAS INCLUDING COMBUSTION CHAMBER CASE DUCT AREA.
____I	8. VISUALLY INSPECT GEARBOX MOUNTS.
____I	9. VISUALLY INSPECT FWD AND AFT MOUNT BRACKETS.
____I	10. VISUALLY INSPECT COOLING FAN AND SURGE VALVE DUCTING.
____I	11. VISUALLY INSPECT PLUMBING AND COMPONENTS. EMAC 60 4953 000AA 1C MRB 49-044 - 757 MRB 49-045 767
____I	12. VISUALLY INSPECT DRAIN LINES, DRAIN MAST AND CONNECTIONS.
____I	13. VISUALLY INSPECT FUEL SYSTEM PLUMBING AND COMPONENTS.
____I	14. VISUALLY INSPECT EXHAUST CASE AND MUFFLER.

V665	62697	V0102.0
ORDER NO	ENGINE NO	JOB NO

_____I 15. VISUALLY INSPECT ALL VISIBLE CLAMPS AND BRACKETS.

****

NON-ROUTINES ISSUED:

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK INSPECTION

REV. 1/7/09

V665	62697	V0102.0
ORDER NO	ENGINE NO	JOB NO.

END JOB V0102.0 REVISED 1/7/09

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, ENGINE DISASSY/ASSY

REV. 4/26/07

V665	62697	V1000.0
ORDER NO	ENGINE NO	JOB NO

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

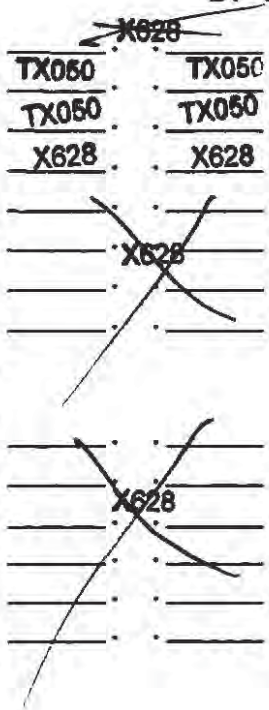
NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT



V0002.0	- NON-ROUTINE ACCOUNTABILITY
V1010.0	49-10-01ENGINE DISASSEMBLY
V1020.0	EXTERNAL PARTS - CLEANING
V1040.0	ENGINE ASSEMBLY - UAL
V1040.1	ENGINE ASSEMBLY- CUSTOMER
V1080.0	QEC REMOVAL
V1090.0	QEC INSTALLATION
V1090.1	QEC INSTALLATION - B757

NOTE - INCLUDE 60-49-10-01-02 ICS - V EXTERNALS WITH LOG PACKAGE.

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, ENGINE DISASSY/ASSY

REV. 4/26/07

V665	62697	V1000.0
ORDER NO	ENGINE NO.	JOB NO

X628

X628

2 NO COA'S X628

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

SIGNATURE: X628 DATE: 10/28/00

END JOB V1000.0 REVISED 4/26/07

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Item # 1, 8 to 14
not required 7239

Job Instruction Card

331-200 49-10-01ENGINE DISASSEMBLY

REV. 6/15/00

V665	62697	V1010.0
ORDER NO	ENGINE NO.	JOB NO.

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-10-01.

7239	M X	1. REMOVE GENERATOR.
	M 7239	2. REMOVE SURGE VALVE AND DUCTS.
	M 7239	3. REMOVE COOLING FAN DUCTS.
	M 7239	4. REMOVE OIL COOLER.
	M 7239	5. DISCONNECT AND REMOVE ELECTRICAL HARNESS.
	M 7239	6. REMOVE ENGINE PLUMBING.
	M 7239	7. REMOVE BLEED AIR DUCT.
7239	M X	8. REMOVE COOLING FAN.
7239	M X	9. REMOVE STARTER.
7239	M X	10. REMOVE FUEL CONTROL.
7239	M X	11. REMOVE LUBE PUMP.
7239	M X	12. REMOVE GENERATOR SCAVENGE FILTER.
7239	M X	13. REMOVE GEARBOX ADAPTER, SOLENOID VALVE AND REGULATOR VALVE.
7239	M X	14. REMOVE MANUFACTURING ENGINE DATA PLATE.
	M 7239	15. REMOVE INLET PLENUM.
	M 7239	16. DISASSEMBLE UPPER INLET PLENUM.
	M 7239	17. REMOVE INLET SCREENS.
	M 7239	18. REMOVE GEARBOX.
	M 7239	19. REMOVE DRIVEN COMPRESSOR.

2962 L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-10-01ENGINE DISASSEMBLY

REV. 6/15/00

V665	62697	V1010.0
ORDER NO	ENGINE NO	JOB NO

END JOB V1010.0 REVISED 6/15/00

1962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 EXTERNAL PARTS - CLEANING

REV. 6/3/03 U012

U012

V665	62697	V1020.0
ORDER NO.	ENGINE NO	JOB NO

1. U_____ UTILITY MECHANIC (U) CLEAN EXTERNAL COMPONENT PARTS PER GN 4-0-3-20 PROCESS 01 (SOLVENT CLEAN), AND/OR GN 4-0-3-20 PROCESS 2C.

   A. OIL LINES, DUCT ASSEMBLIES, OIL FITTINGS AND TUBES. WASH EXTERIOR AND INJECT SOLVENT INTO INTERIOR PASSAGES. ASSURE ALL PASSAGES ARE NOT OBSTRUCTED AND FREE OF DEPOSITS

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 EXTERNAL PARTS - CLEANING

REV. 6/3/03

V665	62697	V1020.0
ORDER NO	ENGINE NO	JOB NO

END JOB V1020.0 REVISED 6/3/03

6962L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Item # 8, 9, 10, 12, 13, 14, 15 previously accomplished 7239

Job Instruction Card

331-200 ENGINE ASSEMBLY - UAL

REV. 9/15/09

V665	62697	V1040.0
ORDER NO	ENGINE NO	JOB NO

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-10-01/SP01.

L962 LM 7393 1. INSTALL DRIVEN COMPRESSOR.

M 7393 2. INSTALL INLET SCREENS.

L962 LM 7393 3. INSTALL GEARBOX.

M 7393 4. PREASSEMBLE UPPER INLET PLENUM.

M 7393 5. INSTALL INLET PLENUM.

M 7393 6. INSTALL MANUFACTURING ENGINE DATA PLATE

M 7393 7. INSTALL MONOPOLES.

7239 M X 8. INSTALL GENERATOR SCAVENGE FILTER AND GENERATOR DELTA P SWITCH.

7239 M X 9. INSTALL GEARBOX ADAPTER, DE-OIL SOLENOID VALVE AND REGULATOR VALVE (ETOPS CONFIGURATION).

7239 M X 10. INSTALL LUBE PUMP DE-OIL TUBE AND FUEL CONTROL. (ETOPS CONFIGURATION)

M 7239 11. DO NOT CLAMP FUEL LINE TO BRACKET BETWEEN FUEL CONTROL AND FLOW DIVIDER VALVE.

7239 M X 12. INSTALL MAIN OIL FILTER ELEMENT.

7239 M X 13. INSTALL LRU CLUTCH ASSEMBLY.

M 7393 14. INSTALL OIL COOLER.

7239 M X 15. INSTALL STARTER. (ETOPS CONFIGURATION)

7239 M X 16. INSTALL COOLING FAN.

DUPLICATE SIGNOFF V0101.1

DUPLICATE SIGNOFF V0101.2

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Item # 17, 19, 21, 24, 26, 27 29, 32 previously Accompl. 7239

Job Instruction Card

331-200 ENGINE ASSEMBLY - UAL

REV. 9/15/09

V665	62697	V1040.0
ORDER NO	ENGINE NO	JOB NO.

7239 M X 17. INSTALL FLOW DIVIDER VALVE.

M 7239 18. INSTALL BLEED AIR DUCT.

7239 M X 19. INSTALL IGV ACTUATOR.

M 7239 20. INSTALL SURGE CONTROL VALVE.

7239 M X 21. INSTALL COMBUSTOR DRAIN PRESSURE RELIEF VALVE.

M 7239 22. INSTALL ENGINE PLUMBING.

M 7239 23. INSTALL FLOW SENSING MODULE.
CHECK FLOW SENSE MODULE AND INDICATE A OR B BELOW.

7239 A. ADJUSTABLE

____ B. NON-ADJUSTABLE

7239 M X 24. INSTALL COMPRESSOR INLET PRESSURE SENSOR (P2)

M 7239 25. INSTALL GEARBOX SHUTOFF VALVE.

7239 M X 26. INSTALL OIL LEVEL SWITCH.

7239 M X 27. INSTALL LOW OIL TEMPERATURE SWITCH.

M 7239 28. INSTALL ELECTRICAL HARNESS.
(VERIFY DATE TAG IS INSTALLED)

7239 M X 29. INSTALL OIL COOLER AND FLEX LINES COA 5-9104
(ETOPS CONFIGURATION).

M 7239 30. INSTALL COOLING FAN DUCTS.

M 7239 31. INSTALL SURGE VALVE DUCTS.

7239 M X 32. INSTALL GENERATOR

NOTE - LUBRICATE APU INPUT SPLINE SHAFT AND O-RINGS WITH GRE4505-1 (CMP 49-01-01).

551

6962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Item # 33, 34, 36, 38, 39, 40, 41 previously accomplished 7239

Job Instruction Card

331-200 ENGINE ASSEMBLY - UAL

REV. 9/15/09

V665	62697	V1040.0
ORDER NO.	ENGINE NO.	JOB NO.

7239M X 33. INSTALL LOP SWITCH. (ETOPS CONFIGURATION)

7239M X 34. INSTALL HOT SWITCH.

M 7239 35. INSTALL IGNITION EXCITER (ETOPS CONFIGURATION)

7239M X 36. INSTALL GENERATOR AND CONFIRM INSTALLATION OF 1 GENERATOR MAGNETIC CHIP DETECTORS (ETOPS CONFIGURATION).

M 7239 37. INSTALL IGNITION PLUG AND LEAD.

7239M X 38. INSTALL PRISMATIC OIL LEVEL SIGHT GAGE COA 6-9237.

7239 M X 39. INSTALL 331-200ER APU DATA PLATE (ETOPS CONFIGURATION) COA 5-9004.

7239M X 40. INSTALL FRONT ENGINE MOUNTS.

-------CONTINUOUS AIRWORTHINESS ITEM----------

CHECK SAFETY

7239M X 41. INSTALL OIL CAP AND ADAPTER ASSEMBLY COA 5-9110.

8962 LM 7239 42. FINAL ASSEMBLY VERIFICATION.

A. VISUALLY VERIFY ALL PLUMBING IS PROPERLY INSTALLED.

B. VISUALLY VERIFY ALL ELECTRICAL CONNECTORS ARE INSTALLED.

C. VISUALLY VERIFY INLET IS FREE OF F.O.D.

D. VERIFY PRESENCE AND CONDITION OF SAFETY WIRING.

E. VERIFY ENGINE ROTATES SMOOTHLY. LIMITED RUB OF SEALS IN POWER SECTION IS ACCEPTABLE.

8962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ENGINE ASSEMBLY - UAL

REV. 9/15/09

V665	62697	V1040.0
ORDER NO	ENGINE NO	JOB NO.

END JOB V1040.0 REVISED 9/15/09

L962 L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

UNITED AIRLINES

GTCP331-200ER APU Engine Manual - Inspection and Condition Sheet

ENGINE

60-49-10-01-02 ICS

DISTRIBUTION 551

ENGINE S/N: 62697 ORDER NO: V665

VADE NO _____ CUSTOMER. UA ENGINE TYPE: V

REASON FOR REMOVAL Turbine disk Life

COMMENTS _____

DISPOSITION CODES:		
	E =	MODULE MEETS EID REQUIREMENTS (ZERO TIME SINCE MODULE INSPECTION) PART MEETS DETAIL PART EID REQUIREMENTS (ZERO TIME SINCE DETAIL PART INSPECTION)
	A =	EXPOSED AREA OF PART MEETS VISUAL REQUIREMENTS OF APPROPRIATE EID (CONTINUED TIME SINCE DETAIL PARTS INSPECTION)
	C =	ROUTED OR CORRECTIVE ACTION TAKEN
	ATA# S/L-SEQ	EID NUMBER [49 precedes numbers shown (49) 31 -XX] SECTION / LIST - SEQUENCE NUMBER
	OFF LOG FUNC#	STAMP TO INDICATE PART/MODULE OFF-LOG FUNCTION NUMBER

NOTE Sign off appropriate disposition code. More than one code may be signed.

NOTE Indicate condition of unserviceable parts regardless of disposition.

NOTE . To clear parts not exposed, draw a line through the complete entry and stamp in the left margin

NOTE . If part is routed on an R&R Tag, it is mandatory to stamp the applicable "E" or "A" Block and write "R&R" in the "C" Block Then complete the appropriate computer transaction.

NOTE Parts having no specific EID will be visually inspected per 60-49-00-00 Book "0", Introduction, Section 4, A4

Engine Inspection Guide:

I _____ (1) Convenience Shop Visit (CSV), Project Engine Visit (PEV) or Other Shop Visit (OTH). No parts and/or modules removed or exposed. No further sign-off required.

I I209A (2) Engine Shop Visit (ESV), Convenience Shop Visit (CSV), Project Engine Visit (PEV) or Other Shop Visit (OTH). Parts and/or modules were removed or exposed. Sign-off or void out the following items as required

Control Date: 20070429

ENGINE S/N 62697 ORDER NO: V665

E	A	C	ITEM NOMENCLATURE	ATA # S/L SEQ	OFFLOG FUNC #	ROUTING / CONDITION
I209A			CLAMP, V BAND 2 EA	10-00-02 50-070	XXX 5749	
I209A			CLAMP, V BAND	10-00-02 50-570	XXX 5575	
I209A			CLAMP, V BAND 2 EA	10-00-02 50-580	XXX 5776	
I209A			CLAMP, V BAND	10-00-02 50-590	XXX 5777	
I209A			PLENUM, LOWER	21-01-00 10-275	XXX 2280	
		I209A	PLENUM, UPPER	21-02-00 10-270	XXX 2279	552
I209A			SCREEN, INLET	21-03-00 10-255	XXX 5737	
I209A			COVER, MONOPOLE	21-04-00 50-140	XXX 5753	
I209A			COVER, MONOPOLE	21-04-00 50-260	XXX 5758	
I209A			COVER, ACCESS PORT	21-06-00 50-300	XXX 5761	
I209A			SHAFT, QUILL	26-22-00 18-105	XXX 5683	
I209A			SHAFT, QUILL	26-22-00 11-200	XXX 2246	
I209A			ADAPTER	27-03-00 50-010	XXX 2235	
I209A			TUBE, OIL COOLER LONG	27-11-00 50-610	XXX 14501	
I209A			TUBE, OIL COOLER SHORT	27-11-00 50-620	XXX 14502	
I209A			BRACKET, OIL COOLER	52-15-00 01-310	XXX 2266	
I209A			DUCT, TEE	53-00-01 50-030	XXX 2238	
I209A			DUCT, SURGE	53-00-01 50-060	XXX 5748	

ENGINE S/N: 62697 ORDER NO: V665

E	A	C	ITEM NOMENCLATURE	ATA # / S/L SEQ	OFFLOG / FUNC #	ROUTING / CONDITION
I209A			DUCT, ELBOW	53-00-01	XXX	
				50040	2249	
I209A			SENSOR, STATIC	53-18-00	XXX	
				50-600	11778	
I209A			BRACKETS	10-01-00	XXX	
				331 IPC		
I209A			TUBING	10-01-00	XXX	
				331-IPC		
I209A			HOSES	10-01-00	XXX	
				331-IPC		
	I209A		GENERATOR	10-01-00	XXX	
				331-IPC		
		I209A	MODULE, POWER SECTION	20-00-00		Routed
				XXX	N	
		I209A	MODULE, DRIVEN COMPRESSOR	25-00-00		Routed
				18-000	F	
	I209A		MODULE, GEARBOX	26-01-00		
				01-000	A	
	I209A		ASSEMBLY, COOLING FAN	52-01-00		
				03-000	5650 C	
		I209A	ASSEMBLY, TURBINE SCAVENGE PUMP	90-05-01	XXX	Routed
				55-010	5578 S	
	I209A		ASSEMBLY, LUBE OIL PUMP	90-01-01	XXX	
				41-000	5724 P	

I I209A (3) Check Inspection and Condition Sheet for completion.

1. Approving National Aviation Authority/Country	2	3. Form Tracking Number
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	**W115416**

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
REPAIR STATION NO IROR086L Fokker Aerinc Incorporated, 14560 Greeno Rd , Fairhope, AL 36532, United States	**S9887611599**

6 Item:	7 Description	8. Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch Number.	12 Status/Work
1	FLOW SENSING MODULE	3885081-1	N/A	1	SX5564A	REPAIRED

13. Remarks

REPAIRED IN ACCORDANCE WITH UNITED PUBLICATION # AC-60-49-54-01, REVISION DATED Mar-12-2010 FULL DETAILS OF WORK CARRIED OUT PER WORK ORDER NUMBER W115416 THE WORK WAS PERFORMED BY Roger Swire EMPLOYEE # R S55419

14. Certifies the items identified above were manufactured in conformity to:

- ☐ Approved design data are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13.

19 ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13 the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14 Code of Federal Regulations, part 43 and in respect to that work the items are approved for return to service

15. Authorized Signature:	16. Approval/Authorization No:	20 Authorized Signature	21. Approval/Certificate No
		James J Salter	IROR086L
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22 Name (Typed or printed)**	**23. Date (m/d/y)**
		James J Salter	Oct-18-2010

User/Installer Responsibilities

It is important to understand the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1. Approving National Aviation Authority/Country	2.	3. Form Tracking Number:
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	**86391-10**

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number
Repair Station# OA9R240X **AERO TECHNOLOGIES, LLC.** **2200 NW 84th Ave., Miami, Florida 33122, Fax 305/436-6064, 305/436-5464**	**86391 / S9826310696**

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	**VALVE**	**3289514-1**	**N/A**	**1**	**2319**	**OVERHAULED**

13. Remarks: **Work order # 86391 describing actual work performed is attached.**
Work performed has been completed IAW FAA approved data.
The Overhaul performed was accomplished IAW UA CMM AC-60-49-63-01 and authorized supplemental documents therein.
JD REV DATED 01/04/2005
Aero Technologies has verified that there are no outstanding and/or existing AD's on this unit.

Certifies that the work specified in block 12/13 was carried out in accordance with EASA PART 145 and with respect to that work the aircraft component is considered ready for release to service under EASA Approval Certificate Number 4199 and FAR PART 145 Air Agency Certificate number145.4199

14 Certifies the items identified above were manufactured in conformity to:	19. ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13
☐ Approved design data and are in condition for safe operation. ☐ Non-approved design data specified in Block 13.	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15. Authorized Signature	16. Approval/Authorization No.:	20. Authorized Signature: Scott Phillips	21 Approval/Certificate No.: **OA9R240X**
17. Name (Typed or Printed)	18. Date (m/d/y):	22. Name: (Typed or Printed) **SCOTT PHILLIPS**	23 Date (m/d/y): **Oct 7,2010**

User/Installer Responsibilities

It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an Airworthiness Authority different than the Airworthiness Authority of the country specified in block 1, it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the Airworthiness Authority of the country specified in block 1

Statements in block 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2. **AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number*
FAA/UNITED STATES		11796834-2733600-1-1

4. Organization Name and Address*		5. Work Order/Contract/Invoice Number
Unison Industries 7575 Baymeadows Way Jacksonville, FL 32256	REPAIR STATION FACILITY CERTIFICATION NO UILR299k	REPAIR NUMBER 95740 P O S9460858620

6 Item*	7 Description	8. Part Number:	9 Eligibility: *	10. Quantity:	11. Serial/Batch Number.	12 Status/Work.
1	EXCITER,IGNITION	10-617075-6 (3888058-5)	N/A	1	980218000364	OVERHAUI ED

13 Remarks

OVERHAULED TESTED AND INSPECTED PER CMM 49-41 09 REV 4 DTD MAR/31/2006

For European shipments Certifies that work specified in block 12/13 was carried out in accordance with EASA 145 and with respect to that work the aircraft component is considered ready for release to service under EASA Acceptance Certificate Number FASA 145 4976
For Canadian Shipments Certifies the work described in blocks 12/13 is released under the terms of the US - Canada Bilateral Aviation Safety Agreement
Details on file under W O number listed in block 5

14 Certifies the item identified above was manufactured in conformity to:	19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13
☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13.	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.
15. Authorized Signature: / 16. Approval Authorization No.:	20 Authorized Signature* Carroll W Roger / 21 Approval/Authorization No. UILR299k
17. Name (Typed or Printed): / 18. Date(m/d/y):	22. Name (Typed or Printed)* Roner, Carroll W / 23. Date(m/d/y): OCT/09/2010

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.
Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

UNITED

PSEN446A-1 UNITED AIRLINES ENGINE MAINTENANCE SYSTEM PAGE 1
09/07/10 COA SCHEDULING REPORT TIME: 08.03
COAS FOR ENTIRE ASSEMBLY REASON: REMOVAL REQUESTOR NAME: REMOVAL
WORK CENTER: 561 ORGANIZATION:

SERIAL NBR	ET	MT	NAME	PWR RTG	CUST
62697		V	APU331	200E	UA

ORDER NUMBER
V665

COA NUMBER	COA CAT	MODULE/ FUNC NBR	UNIT SERIAL	UNIT COA STATUS	ISS	COMP	COA TITLE	COMPLETION DATE
Y-9171-0	2		62697	COMPLETED			GTCP331-200 CLNG FAN VLV DELETION	04/14/04
Y-9559-1	2		62697	COMPLETED			GTCP331-200 FLOW SENSING MODULE PALLET	04/14/04
0-9127	1		62697	COMPLETED			757/767 APU PNEU MOD PLT STAND & UPGRD	04/14/04
5-9004	1		62697	COMPLETED			B757 331-APU INSTALL S/N DATA PLACARD	04/14/04
5-9089	4	00988	1963	COMPLETED			757/767 GTCP331 APU IGV BUSHING-UPGRADE	08/23/00
5-9110	1		62697	COMPLETED			757/767 331 APU OIL GAL AND ADAPTER AS	04/14/04
5-9127	2		62697	COMPLETED			GTCP331-200ER APU SCV SERPENTINE LINE	04/14/04
6-9207	1		62697	COMPLETED			B767/B757 APU OIL LEVEL SIGHT GAGE PLT	04/14/04

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, POWER SECTION

REV. 4/26/07

NV656	61590	V2000.0
ORDER NO	ENGINE NO	JOB NO.

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT

X628	V0002.0	- NON-ROUTINE ACCOUNTABILITY
X628 X628	V2010.0	49-20-02TURBINE GROUP REMOVAL
X628 X628	V2011.0	49-20-01COMPRESSOR/COMBUSTOR DISASSEMBLY
X628 X628	V2020.0	POWER SECTION - CLEANING
X628 X628	V2041.0	COMPRESSOR/COMBUSTOR ASSEMBLY
X628 X628	V2042.0	49-24-00TURBINE GROUP ASSEMBLY.
X628 X628	V2043.0	49-20-02TURBINE GROUP INSTALLATION
	V2043.5	49-20-02TURBINE BEARING REMOVAL & INSTALLATION
		NOTE - INCLUDE 60-49-20-00-00 ICS - POWER SECTION MODULE 'NV' WITH LOG PACKAGE.
X628		

Job Instruction Card

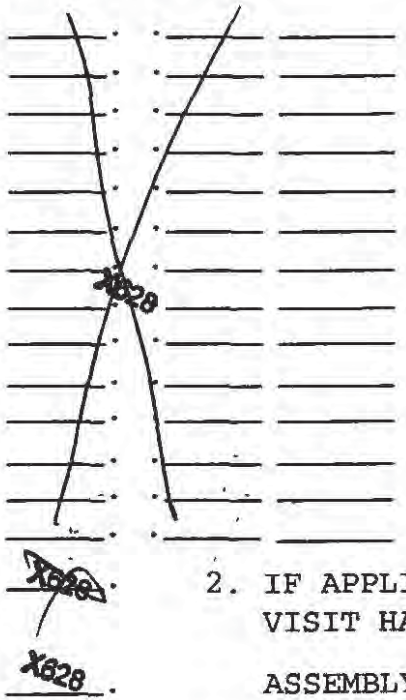
331-200 COVER PAGE, POWER SECTION

REV. 4/26/07

NV656	61590	V2000.0
ORDER NO	ENGINE NO	JOB NO

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

2 NO COA'S X628



2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

   ASSEMBLY S/N: P-126C X628

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

   SIGNATURE: X628 DATE: 10/22/10

END JOB V2000.0 REVISED 4/26/07

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-20-02TURBINE GROUP REMOVAL

REV. 3/11/99

NV656	61590	V2010.0
ORDER NO	ENGINE NO	JOB NO.

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-20-02.

M 7227 1. REMOVE FLOW DIVIDER/DRAIN VALVE.

M 7227 2. REMOVE EXCITER, IGNITOR PLUG AND THERMOCOUPLES. DISCARD GASKETS.

M 7227 3. REMOVE INSULATION BLANKETS.

M 7227 4. REMOVE EXHAUST HOUSING AND MUFFLER.

M 7227 5. REMOVE FUEL MANIFOLDS. REMOVE FUEL NOZZLES AND SHROUDS. DISCARD GASKETS.

M 7227 6. REMOVE HEATSHIELD AND SCAVENGE PUMP.

M 7227 7. STRETCH TIESHAFT.

M 7227 8. DISASSEMBLE TURBINE BEARING CAPSULE. DISCARD GASKET AND SPRING WASHER. BAG TURBINE BEARING INNER AND OUTER RACE TO PRECLUDE CLEANING.

M 7227 9. REMOVE AND DISASSEMBLE TURBINE GROUP

NOTE - DISCARD USED PISTON SEAL RINGS FROM T1 STATOR AND T1 STATOR SUPPORT.

X628. PLANNER TO ISSUE: JIC V2050.0, V2021.0 AND INSPECTION 60-49-90-05/SP01.

M 7227 10. IF ENGINE TSLV IS EQUAL TO OR GREATER THAN 3000 HOURS, OR IT HAS EXPERIENCED M.I.S, DISASSEMBLE TURBINE SCAVENGE PUMP PER SHOP PROCEDURE 331-49-24-01/SP01.

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-20-02TURBINE GROUP REMOVAL

REV. 3/11/99

NV656	61590	V2010.0
ORDER NO	ENGINE NO	JOB NO

END JOB V2010.0 REVISED 3/11/99

L962L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-20-01COMPRESSOR/COMBUSTOR DISASSEMBLY

REV. 11/22/85

NV656	61590	V2011.0
ORDER NO.	ENGINE NO.	JOB NO

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-20-01.

M 7227 1. REMOVE COMBUSTOR.

M 7393 2. REMOVE INLET HOUSING.

M 7393 3. DISASSEMBLE FIRST STAGE COMPRESSOR.

M 7393 4. DISASSEMBLE SECOND STAGE COMPRESSOR.

M 7393 5. DISASSEMBLE COMPRESSOR HOUSING.

M 7393 6. DISASSEMBLE INLET HOUSING.

M 7393 7. DISASSEMBLE BEARING INLET HOUSING.

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-20-01COMPRESSOR/COMBUSTOR DISASSEMBLY

REV. 11/22/85

NV656	61590	V2011.0
ORDER NO.	ENGINE NO	JOB NO

END JOB V2011.0 REVISED 11/22/85

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 POWER SECTION - CLEANING

REV. 4/27/01

NV656	61590	V2020.0
ORDER NO	ENGINE NO	JOB NO

1. U U012 UTILITY MECHANIC (U) CLEAN POWER SECTION PARTS PER GN 4-0-3-20 PROCESS 01 (SOLVENT CLEAN), AND/OR GN 4-0-3-20 PROCESS 2C.
2. U U012 UTILITY MECHANIC (U) PLASTIC PELLET BLAST THE THE FOLLOWING PARTS PER GN 4-0-0-6 PROCESS Q-09.

   A. COMBUSTION CHAMBER.

   B. COMBUSTION CHAMBER CASE.

   C. 1ST STAGE TURBINE STATOR SUPPORT.

   D. 1ST STAGE TURBINE STATOR ASSEMBLY.

   E. 1ST STAGE TURBINE SHROUD.

   F. 1ST STAGE TURBINE WHEEL ASSEMBLY.

   G. 2ND STAGE TURBINE STATOR ASSEMBLY.

   H. 2ND STAGE TURBINE STATOR SUPPORT.

   I. 2ND STAGE TURBINE WHEEL ASSEMBLY.

   J. 3RD STAGE TURBINE STATOR ASSEMBLY.

   K. 3RD STAGE TURBINE WHEEL ASSEMBLY.

   L. ROTOR SEAL CURVIC COUPLING.

   M. HEAT SHIELD.

   N. TIE SHAFT (INSIDE, SPLINED INSERT).

   O. TURBINE SCAVENGE PUMPQUILL SHAFT.

3. U U012 UTILITY MECHANIC (U) HEAVY DUTY CAUSTIC CLEAN - NO PHOSPHORIC ACID THE FOLLOWING PARTS PER GN 4-0-3-20 PROCESS 2A:

   A. COMPRESSOR COUPLING STUB-SHAFT.

551

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 POWER SECTION - CLEANING

REV. 4/27/01

NV656	61590	V2020.0
ORDER NO.	ENGINE NO.	JOB NO

B. SHIELD-OIL TUBES.

C. FUEL NOZZLE SHROUDS.

D. GEAR SHAFT - (TURBINE PUMP QUILLSHAFT).

E. TURBINE OIL TUBES.

F. OIL JETS AND SPACERS.

G. TURBINE BEARING SUPPORT.

H. CURVIC COUPLING SHAFT - (TURBINE END).

I. T-BOLTS AND BEARING RETAINER.

J. TAIL CONE-SPACERS PLUS BOLTS.

K. ALL METAL CLAMPS.

END JOB V2020.0 REVISED 4/27/01

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COMPRESSOR/COMBUSTOR ASSEMBLY

REV. 12/30/03

NV656	61590	V2041.0
ORDER NO	ENGINE NO	JOB NO.

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-20-01.

M 7393 1. INSTALL LABYRINTH SEAL ON COUPLING SHAFT.

M 7393 2. ASSEMBLE BEARING INLET HOUSING.

M 7393 3. ASSEMBLE SHROUD AND INLET HOUSING ASSEMBLY.

M 7393 4. DETERMINE FIRST STAGE COMPRESSOR ZERO FACE CLEARANCE DIMENSION.

RECORD DIMENSION A 0.907

M 7393 5. INSTALL BEARING INLET HOUSING ASSEMBLY.

L962 L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COMPRESSOR/COMBUSTOR ASSEMBLY

REV. 12/30/03

NV656	61590	V2041.0
ORDER NO	ENGINE NO	JOB NO

M 7393 6. DETERMINE SHIM REQUIREMENTS FOR SHROUD AND INLET HOUSING.

0.907 DIMENSION A (FROM ABOVE)

- 0.772 DIMENSION B

- 0.041 INCH

= 0.094 + OR - .001 INCH, REQUIRED SHIMS

****

* *

* 0.094 REQUIRED SHIMS *

* *

* - 0.094 ACTUAL SHIMS USED *

* *

* + .041 *

* *

* = 0.041 CALCULATED C1 IMPELLER CLEARANCE *

* *

****

M 7393 7. ASSEMBLE COMPRESSOR HOUSING.

M 7393 8. DETERMINE SECOND STAGE COMPRESSOR ZERO FACE CLEARANCE DIMENSION.

RECORD DIMENSION C 1.841

962 L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COMPRESSOR/COMBUSTOR ASSEMBLY

REV. 12/30/03

NV656	61590	V2041.0
ORDER NO	ENGINE NO	JOB NO

M 7393 9. DETERMINE SHIM REQUIREMENTS FOR INLET HOUSING AND COMPRESSOR HOUSING P/N 3826138-3 BY USING FORMULA BELOW:

1.841 DIMENSION C (FROM ABOVE)

- 1.745 DIMENSION D

- 0.040 INCH

= 0.056 + OR - .001 INCH, REQUIRED SHIMS

****

* *

* 0.056 REQUIRED SHIMS *

* *

* - 0.056 ACTUAL SHIMS USED *

* *

* + .040 *

* *

* = 0.040 CALCULATED C2 IMPELLER CLEARANCE *

* *

****

M 7393 10. INSTALL COMPRESSOR HOUSING ON MAINTENANCE STAND.

M 7393 11. ASSEMBLE COMPRESSOR AND DIFFUSER ASSEMBLY.

M 7393 12. INSTALL INLET HOUSING ASSEMBLY.

M 7393 13. INSTALL COMBUSTION CHAMBER AND COMBUSTION CHAMBER CASE.

-----CONTINUOUS AIRWORTHINESS ITEM -----

CHECK COMBUSTOR INSTALLATION.

L 0962

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COMPRESSOR/COMBUSTOR ASSEMBLY

REV. 12/30/03

NV656	61590	V2041.0
ORDER NO	ENGINE NO	JOB NO

END JOB V2041.0 REVISED 12/30/03

8962 L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-24-00TURBINE GROUP ASSEMBLY.

REV. 7/28/97

NV656	61590	V2042.0
ORDER NO	ENGINE NO	JOB NO

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-24-00.

1962 LM 7393 1. MARK FIRST, SECOND, AND THIRD STAGE TURBINE STATORS FOR ALIGNMENT DURING INSTALLATION. REFERENCE SHOP PROOCEDURE 49-24-00, PAGE 703, ITEM D, NOTE 1. INSTALL NEW REPLACEMENT SEAL RINGS.

M 7393 2. MEASURE FOR T1 SHROUD SHIMS, DIMENSIONS D.

0.002 "GAP" DIMENSION E
(AVERAGE OF BOLT HOLE LOCATIONS)
+ 0.025
= 0.027 DIMENSION D
(+/- 0.001 REQ'D T1 SHROUD SHIMS)

OR

_____ DIMENSION A
\- _____ DIMENSION B
= _____ DIMENSION C
0.025
\- _____ DIMENSION C
= _____ DIMENSION D
(+/- 0.001 REQ'D T1 SHROUD SHIMS)

M 7393 3. MEASURE FOR T2 STATOR SUPPORT SHIMS.

RECORD DIMENSION F 0.029

CAUTION - MEASURE FROM AREA AROUND BOLT HOLE FLANGE SURFACE.

1962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-24-00TURBINE GROUP ASSEMBLY.

REV. 7/28/97

NV656	61590	V2042.0
ORDER NO	ENGINE NO	JOB NO

M 7393 4. ASSEMBLE TURBINE GROUP.

0.027 DIMENSION D (ABOVE + OR - 0.001 INCH)
(ACTUAL T1 SHROUD SHIMS USED)

0.029 DIMENSION F (ABOVE + OR - 0.001 INCH)
(ACTUAL T2 STATOR SUPPORT SHIMS USED)

END JOB V2042.0 REVISED 7/28/97

8962
L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-20-02TURBINE GROUP INSTALLATION

REV. 9/18/09

NV656	61590	V2043.0
ORDER NO	ENGINE NO	JOB NO

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-20-02.

ASSIGNED ENGINER ORDER NUMBER V645 X628

M 7393 1. MEASURE FOR TURBINE GROUP SHIMS.

0.101 DIMENSION H

0.018 DIMENSION G

M 7393 2. ASSEMBLE TURBINE GROUP AND COMPONENTS TO DETERMINE SHIM REQUIREMENTS.

L962 LM 7393 3. ----- CONTINUOUS AIRWORTHINESS ITEM -----TURBINE TIESHAFT INSTALLATION - CHECK AND VERIFY STRETCH MEASUREMENT.

0.770 DIMENSION C (BEFORE STRETCH)

2.460 DIMENSION A

2.413 DIMENSION B

=0.047 STRETCH DIMENSION (LIMIT = 0.047 TO 0.050 INCH)

0.833 DIMENSION C (AFTER STRETCH)

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

M 7393 4. VERIFY TURBINE GROUP SHIM THICKNESS.

3.713 DIMENSION J

- 0.101 DIMENSION H (PREVIOUSLY RECORDED)

= 3.612

- 2.772 TOOLING DIMENSION

= 0.840 BUILD DIMENSION (0.840 TO 0.843 INCH)

M 7393 5. INSTALL TURBINE BEARING SUPPORT.

0.018 DIMENSION G (PREVIOUSLY RECORDED)
REQ'D. SHIMS (+ OR - 0.002 INCH)

0.853 DIMENSION C (AFTER STRETCH)

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-20-02TURBINE GROUP INSTALLATION

REV. 9/18/09

NV656	61590	V2043.0
ORDER NO	ENGINE NO.	JOB NO

M 7393 6. DETERMINE SHIM REQUIRED FOR TURBINE BEARING SUPPORT.

4.748 DIMENSION K

- 3.602 DIMENSION L

= 1.146 DIMENSION M

****

2.297 INCH

- 1.146 DIMENSION M (ABOVE)

= 1.151

- 1.027 DIMENSION N (+ OR - 0.001 INCH)

= 0.124 THICKNESS OF REQ'D SHIMS

M 7393 7. ASSEMBLE COMPONENTS ONTO COUPLING.

NOTE - USE NEW T-BOLTS FOR ASSEMBLY OF BEARING CAPSULE.

M 7393 8. INSTALL TURBINE BEARING SUPPORT.

0.833 DIMENSION C (AFTER STRETCH)

VERIFY SHAFT STRETCH IS WITHIN LIMITS.

M 7393 9. INSTALL QUILLSHAFT AND TURBINE SCAVENGE PUMP.

M 7393 10. RECORD SCAVENGE PUMP # SV NV656

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

11

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

ITEM #16. EXCITER NOT INSTALL YET 7393

#16 WILL BE INSTALL WHEN PART AVAILABLE 1962

Job Instruction Card

331-200 49-20-02TURBINE GROUP INSTALLATION

REV. 9/18/09

NV656	61590	V2043.0
ORDER NO	ENGINE NO	JOB NO

M 7393 11. INSTALL HEATSHIELD.

M 7393 12. INSTALL PRIMARY AND SECONDARY NOZZLE AND MANIFOLD ASSEMBLIES.

----- CONTINUOUS AIRWORTHINESS ITEM -----CHECK BOLT AND "B" NUT TORQUE OF PRIMARY AND SECONDARY NOZZLE AND MANIFOLD ASSEMBLIES.

SAFETY PRIMARY AND SECONDARY NOZZLE ASSEMBLIES.

----- CONTINUOUS AIRWORTHINESS ITEM -----CHECK SAFETY OF PRIMARY AND SECONDARY NOZZLE ASSEMBLIES.

M 7393 13. INSTALL EXHAUST MUFFLER AND HOUSING.

M 7393 14. INSTALL INSULATION BLANKETS.

M 7393 15. INSTALL TADPOLE SEAL.

1962 M ~~X~~ 16. INSTALL EXCITER, IGNITOR PLUG AND THERMOCOUPLES.

M 7393 17. INSTALL FLOW DIVIDER AND DRAIN VALVE.

END JOB V2043.0 REVISED 9/18/09

551

1962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

UNITED AIRLINES

GTCP331-200ER APU Engine Manual - Inspection and Condition Sheet

POWER SECTION MODULE
60-49-20-00-00 ICS

DISTRIBUTION: 551

ENGINE S/N: _____ VADE NO: _____ CUSTOMER: _____

MODULE ORDER NO: NV656 MODULE S/N: P-1266 MODULE: N

REASON FOR REMOVAL: _____

COMMENTS _____

DISPOSITION CODES	E =	PART MEETS DETAIL PART EID REQUIREMENTS (ZERO TIME SINCE DETAIL PART INSPECTION)
	A =	EXPOSED AREA OF PART MEETS VISUAL REQUIREMENTS OF APPROPRIATE EID (CONTINUED TIME SINCE DETAIL PARTS INSPECTION)
	C =	PART ROUTED OR CORRECTIVE ACTION TAKEN
	ATA# S/L-SEQ	EID NUMBER [49 precedes numbers shown (49) 31 -XX] SECTION / LIST - SEQUENCE NUMBER
	OFF LOG FUNC#	STAMP TO INDICATE PART OFF-LOG FROM MODULE FUNCTION NUMBER

NOTE : Sign off appropriate disposition code. More than one code may be signed.

NOTE : Indicate condition of unserviceable parts regardless of disposition

NOTE : To clear parts not exposed, draw a line through the complete entry and stamp in the left margin.

NOTE . If part is routed on an R&R Tag, it is mandatory to stamp the applicable "E" or "A" Block and write "R&R" in the "C" Block. Then complete the appropriate computer transaction.

NOTE : Parts having no specific EID will be visually inspected per 60-49-00-00 Book "0", Introduction, Section 4, A4.

Module Inspection Guide:

I _____ (1) Module inspected and found serviceable per EID 60-49-20-00-00 [ZERO Time Since Module Inspection (TSMI)] No parts removed from module. No additional sign-off required.

I I366 (2) Module partially or completely disassembled. Removed parts and / or exposed areas inspected per appropriate EID (ZERO Time Since Detail Parts Inspection - TSDPI).

Control Date: 20070329

ENGINE S/N: _____ ORDER NO: _____

E	A	C	ITEM NOMENCLATURE	ATA # / S/L SEQ	OFFLOG / FUNC #	ROUTING / CONDITION
		I366	BEARING, THRUST	20-01-01		Routed
				35-020	5719	
		I366	BEARING, ROLLER	20-01-01		rework
				35-040	5720	
		I366	CARBON SEAL	20-02-00	XXX	routed
				35-010	5718	
		I366	HOUSING, INLET	22-01-00	XXX	LOT 303794
				20-100	2240	
		I366	RETAINER, BRG	22-02-00	XXX	face worn
				12-150	5672	
I366			INSERT, SOUND ATTENUATOR	22-03-00	XXX	
				16-010	5676	
		I366	HOUSING ASSY, BEARING	22-04-00	XXX	Axial worn
				16-015	0999	
	I366		SEAL, COUPLING SHAFT	22-05-00	XXX	
				11-110	2242	
	I366		SHAFT, ENGINE COMPRESSOR	22-06-00	XXX	
				11-100	0998	
		I366	TIE SHAFT	22-07-00	XXX	Journals delam
				11-090	1012	
		I366	INLET BELL	22-08-00	XXX	delam
				16-130	2278	
I366			SHROUD, COMPRESSOR	22-09-00	XXX	
				16-140	2277	
		I366	IMPELLER, C1	22-10-00		LOT 303709
				11-030	0993	
I366			DIFFUSER ASSY, C1	22-11-00	XXX	
				16-120	0994	
		I366	HOUSING ASSY, COMPRESSOR	22-12-00	XXX	Volvk wh
				16-080	2252	
		I366	IMPELLER, C2	22-13-00		LOT 303710
				11-045	0995	
		I366	DIFFUSER, C2	22-14-00	XXX	LOT 303799
				16-100	0996	
I366			DESWIRL ASSY	22-15-00	XXX	
				16-020	0997	

ENGINE S/N: _____ ORDER NO: _____

E	A	C	ITEM NOMENCLATURE	ATA # S/L SEQ	OFFLOG FUNC #	ROUTING / CONDITION
		I366	LINER ASSY, COMB TRANSITION	22-16-00 16-030	XXX 1000	Studs Broken
		I366	LABYRINTH SEAL	22-17-00 16-040	XXX 2261	WORN
I366		I366	MOUNT, AFT 2EA	22-20-00 16-420	XXX 2257	Inc WO 303798
I366			SUPPORT, INLET HOUSING	22-20-00 16-400	XXX 5679	
		I366	ROTOR, SEAL	22-22-00 35-060	XXX 2256	RE WORK
I366			BRACKET, IGNITION UNIT	22-99-00 16-440	XXX 13350	
I366			BRACKET, FLOW DIVIDER	22-99-00 16-450	XXX 13351	
I366			HEATSHIELD, MOUNT	22-99-00 16-430	XXX 13335	
I366			HEATSHIELD, MOUNT 2 EA	22-99-00 16-460	XXX 13352	
I366			HEATSHIELD, FLOW DIVIDER	22-99-00 16-470	XXX 13353	
I366			HEATSHIELD, IGNITION UNIT	22-99-00 16-480	XXX 13354	
		I366	CHAMBER, COMBUSTION	23-01-00 20-010	XXX 1002	CRACKS
I366			RING, CONTAINMENT	23-02-00 20-030	XXX 2258	
		I366	CASE, COMBUSTION CHAMBER	23-04-00 20-020	 1001	Cut 303797
I366			RING, SPLIT	23-05-00 20-090	XXX 2259	
I366			COUPLING & SEAL	23-06-00 11-050	XXX 1097	
I366		I366	SHROUD, FUEL NOZZLE 12 EA	23-32-00 20-540	XXX 2234	Inc WORK
I366			RETAINER, FUEL NOZZLE 12 EA	23-33-00 20-550	XXX 14520	

ENGINE S/N: _____ ORDER NO: _____

E	A	C	ITEM NOMENCLATURE	ATA # / S/L SEQ	OFFLOG / FUNC #	ROUTING / CONDITION
			SUPPORT, T1 STATOR	24-01-00 30-020	XXX 2260	
		I363	PISTON RING	BOOK 0 31-220	XXX 13363	SCRAP 100%
		I366	STATOR ASSY, T1	24-02-00 31-010	XXX 2286	Lot 303707
		I363	STATOR VANE, T1	24-02-01 31-011	 1005	
		I363	SEAL, T1 RING	BOOK 0 31-013	XXX 13362	SCRAP 100%
		I366	WHEEL ASSY, T1	24-03-00 30-031	XXX 5710	Digs
		I366	DISK, T1	24-03-01 30-030	 1004	Lot 303702
		I363	BLADES, T1	24-03-02 32-170	XXX 1003	Burned
			SHROUD, T1	24-04-00 31-080	XXX 2262	
		I363	STATOR ASSY, T2	24-05-00 31-060	XXX 2281	Lot 303706
		I363	STATOR VANE, T2	24-05-01 31-061	XXX 1008	Cracks
		I363	LABRYNTH SEAL, T2	24-05-03 31-063	XXX 2287	worn
			SUPPORT, T2 STATOR	24-06-00 31-050	XXX 2263	
		I366	WHEEL ASSY, T2	24-07-00 30-041	XXX 5711	Digs
		I366	DISK, T2	24-07-01 30-040	 1007	Lot 303703
		I363	BLADES, T2	24-07-02 32-100	XXX 1006	Rework
		I363	STATOR ASSY, T3	24-08-00 31-070	XXX 2288	Lot 303705
	I363		STATOR VANE, T3	24-08-01 31-071	XXX 1010	

ENGINE S/N: _____ ORDER NO: _____

E	A	C	ITEM NOMENCLATURE	ATA # S/L SEQ	OFFLOG FUNC #	ROUTING / CONDITION
		I363	LABRYNITH SEAL, T3	24-08-03	XXX	worn
				31-073	2283	
		I363	WHEEL ASSY, T3	24-09-00		Lot 703 704
				30-061	1009	
I363			SUPPORT, TURBINE BEARING	24-10-00	XXX	
				20-025	1011	
		I363	COUPLING ROTOR	24-11-00	XXX	Seal part worn
				30-100	1091	
I366			SUPPORT, BEARING	24-13-00	XXX	
				12-020	5665	
		I363	TENSION WASHER	BOOK 0	XXX	SCRAP 100%
				12-030	5666	
		I363	HEATSHIELD	24-14-00	XXX	Lot 303800
				20-120	2250	
I366			MUFFLER, EXHAUST	24-16-00	XXX	
				31-210	1013	
I363			HOUSING, MUFFLER	24-17-00	XXX	
				31-200	2253	
		I363	GASKET, CURVIC COUPLING 2 EA	24-34-00	XXX	Scrap
				30-090	5714	
		I363	GASKET, CURVIC COUPLING	24-34-00	XXX	"
				30-070	5712	
		I363	GASKET, CURVIC COUPLING	24-34-00	XXX	"
				30-080	5713	
		I363	GASKET, CURVIC COUPLING	24-34-00	XXX	"
				30-110	5715	
I363			NUT	24-35-00	XXX	
				12-080	5671	
I366			RETAINER, BEARING	24-37-00	XXX	
				35-050	5721	
		I363	SEAL ASSY, CARBON TURBINE	24-42-00	XXX	rework
				12-010	2264	
			CONE, TURBINE TAIL	24-43-00	XXX	
	I362			55-100	5787	
			BRACKET, DRAIN	27-04-00	XXX	
				50-220	2270	

ENGINE S/N: _____ ORDER NO: _____

E	A	C	ITEM NOMENCLATURE	ATA # S/L SEQ	OFFLOG FUNC #	ROUTING / CONDITION
I363			SHIELD ASSY, OIL INLET AND OUTLET	27-05-00 50-400	XXX 5766	
I363			TUBE, OIL INLET	27-05-01 60-630	XXX 14939	
I363			TUBE, OIL OUTLET	27-05-01 50-640	XXX 14940	
I363			TUBE, VENT	27-06-00 50-430	XXX 5765	
I363			BLANKET, INSULATION	27-10-00 50-400	XXX 5762	
I363			BLANKET, INSULATION	27-10-00 50-410	XXX 5763	
I363			BLANKET, INSULATION	27-10-00 50-420	XXX 5764	
I363			BLANKET, INSULATION	27-10-00 50-460	XXX 5768	
I363			BLANKET, INSULATION	27-10-00 50-450	XXX 5767	
I363			BLANKET, INSULATION	27-10-00 50-470	XXX 5769	
I363			BLANKET, INSULATION	27-10-00 50-490	XXX 5771	
I363			BLANKET, INSULATION	27-10-00 50-480	XXX 5770	
I363			MANIFOLD, FUEL PRIMARY	10-01-00 20-520	XXX 5699	
I363			MANIFOLD, FUEL SECONDARY	10-01-00 20-530	XXX 5700	
		I363	FUEL NOZZLE, PRIMARY	10-01-00 20-499	 1014	
		I363	FUEL NOZZLE, SECONDARY	10-01-00 20-509	 1015	
		I363	TURBINE SCAVENGE PUMP	90-05-01 55-010	XXX 5778	

I I363 (3) Check Inspection and Condition Sheet for completion.

1 Approving National Aviation Authority/Country	2.	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number
FAA/United States			10950102

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9459818620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	NOZZLE ASSY	3830057-6	N/A	1	1AMT0012	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-31-13, Rev 7, dated 9/29/2000

UAL 60-49-20-00/AR03

INSPECTION OF PART IN OVERHAULED CONDITION REF FORM 8130 TRACKING NUMBER 10950102 FOR DETAILS

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) SAM TOWNE	23 Date (m/d/y) October 7, 2010

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

(162)

1 Approving National Aviation Authority/ Country	2	3 Form Tracking Number
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	10950102

4 Organization Name and Address	Cert. No.	5 Work Order /Contract/Invoice Number
Delavan Inc *d/b/a Turbine Fuel Technologies* 2200 Delavan Drive West Des Moines, Iowa 50265	KT2R964K	4202933168

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
01	NOZZLE ASSY	3830057-6	N/A	1	SERIAL# 1AMT0012	OVERHAULED

13 Remarks FULL DETAILS OF WORK CARRIED OUT PER MFG ORDER # 697992

OVERHAULED To CMM 49-31-13 Rev 7 DATED SEPT 29/00

This document was signed electronically

To the best of our knowledge the parts referred to above have not been involved in an incident or accident and have not been subjected to extreme environmental conditions that could jeopardize its airworthy condition

"Certifies that the work specified in blocks 12/13 was performed in accordance with EASA.IR 145 and with respect to that work, the aircraft component is considered ready for release to service under EASA Acceptance Certificate Number EASA 145.4378"

"The part number marked on a part may include an alpha suffix This alpha suffix denotes the part's revision level All revision levels for a given part number are *fully interchangeable* The part's revision level is not required for this certification."

DLN P/N 68009-6HL

14 Certifies that items identified above were manufactured in conformity to

- [ ] Approved design data and are in condition for safe operation
- [ ] Non-approved design data specified in Block 13

19 [X] 14 CFR 43 9 Return to Service [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
		Sandra Wolfe	KT2R964K
17 Name (Typed or Printed)	Date (m/d/y)	22 Name (Typed or Printed)	23 Date (m/d/y)
		SANDRA WOLFE	SEP 27 2010

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1
Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

Delavan Gas Turbine Products Division
2200 Delavan Drive
West Des Moines IA 50265-010
Telephone 515-274-1561
Fax 515 271-7200

INSPECTION AND TEARDOWN REPORT

FAA REPAIR STATION # KT2R964K

Serial # As Received **1AMT0012**

ITR # **10950102**

DLN M O # **697992** Date Received 09/08/10

Part# 68009-6HL

DLN Lot # H290690 DLN Sales Order # 10017113

Removed from Engine S/N

As Received		As Shipped		Changes
DLN P/N	68009-6HL	DLN P/N	68009-6HL	
S/N	1AMT0012	S/N	1AMT0012	
Cust P/N	3830057-6	Cust P/N	3830057-6	

RECD Customer HONEYWELL INT'L INC HL $

Cust PO # 4202933168

Special Instructions **8130 REQUIRED**

SHIP Customer

Cust PO #

Date Ship SEP 2 7 2010

PRELIMINARY INSPECTION AS RECEIVED AND HIDDEN DAMAGE INSPECTION (MARK ALL THAT APPLY) (EXPLAIN WHERE APPLICABLE)

Clean X Dirty | Contaminated | Damaged | Other Remarks

X Nicks Dents Etc | Parts Missing | Cracks

WORK ACCOMPLISHED

/ Overhaul | Inspected | Tested

Repaired | Modified

Parts Scrapped	Parts Replaced	Part#	Description
		15880	RING, RETAINING
		37765	SCREEN
\	\	68007	PIN
		24859	SPRING RETAINER
		38550-1	NOZZLE ASSEMBLY
		36705	SPRING, COMPRESSION
		39588-3	WASHER, KEY

Test Fuel MIL-C 7024C Type II

Final Flow	Air	Fuel Temp Test Points Fuel	Air Temp F Limits PPH	P Bar HGA Actual PPH	Angle Required	Actual Angle	Spray Quality	Reflow Inspec
		100/0	24 2 - 25 8	25.5	65-75 DEG	70°	OK	
		400/0	SPRAY QUALITY	CHECK			↓	
		800/0	PRESSURE TEST				OK	

Operator 2771 Date 9/24/10 Test Stand # 39 Procedure Doc # CMM 49-31-13 Rev 7 SB #

Process Inspector Approval Final Inspector Approval

1 Approving National Aviation Authority/Country FAA/United States	2	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 10949119-A

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9459818620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	NOZZLE ASSY	3830057-6	N/A	1	NY1-1379	Inspected

13 Remarks

Return to service. Items provided by the customer have been serviced in accordance with 49-31-13, Rev 7, dated 9/29/2000

UAL 60-49-20-00/AR03

INSPECTION OF PART IN OVERHAULED CONDITION REF FORM 8130 TRACKING NUMBER 10949119 FOR DETAILS

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) SAM TOWNE	23 Date (m/d/y) October 7, 2010

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/ Country

FAA/UNITED STATES

2

AUTHORIZED RELEASE CERTIFICATE

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3 Form Tracking Number

10949119

4 Organization Name and Address

Delavan Inc
d/b/a Turbine Fuel Technologies
2200 Delavan Drive
West Des Moines, Iowa 50265

Cert. No. KT2R964K

5 Work Order /Contract/Invoice Number

4202920582

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
01	NOZZLE ASSY	3830057-6	N/A	1	SERIAL# NY1-1379	OVERHAULED

13 Remarks FULL DETAILS OF WORK CARRIED OUT PER MFG ORDER # 697274

This document was signed electronically

OVERHAULED To CMM 49-31-13 Rev 7 DATED SEPT 29/00

To the best of our knowledge the parts referred to above have not been involved in an incident or accident and have not been subjected to extreme environmental conditions that could jeopardize its airworthy condition

"Certifies that the work specified in blocks 12/13 was performed in accordance with EASA.IR 145 and with respect to that work, the aircraft component is considered ready for release to service under EASA Acceptance Certificate Number EASA 145 4378"

"The part number marked on a part may include an alpha suffix This alpha suffix denotes the part's revision level All revision levels for a given part number are fully interchangeable The part's revision level is not required for this certification "

DLN P/N 68009-6HL

14 Certifies that the items identified above were manufactured in conformity to

- ☐ Approved design data and are in condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
		Sandra Wolfe	KT2R964K
17 Name (Typed or Printed)	Date (m/d/y)	22 Name (Typed or Printed)	23 Date (m/d/y)
		SANDRA WOLFE	SEP 14 2010

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1
Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

Delavan Gas Turbine Products Division
2200 Delavan Drive
West Des Moines, IA 50265-010
Telephone 515-274-1561
Fax 515-271-7200

INSPECTION AND TEARDOWN REPORT

FAA REPAIR STATION # KT2R964K

Serial # As Received **NY1-1379**

ITR # **10949119**

DLN M O # **697274** Date Received 09/02/10

Part# 68009-6HL

DLN Lot # H290357 DLN Sales Order # 10016865

Removed from Engine S/N

As Received		As Shipped		Changes
DLN P/N	68009-6HL	DLN P/N	68009-6HL	
S/N	NY1 1379	S/N	NY1-1379	
Cust P/N	3830057 6	Cust P/N	3830057-6	

Special Instructions **8130 REQUIRED**

RECD Customer HONEYWELL INTL INC HL $

Cust PO # 4202920582

SHIP Customer

Cust PO #

Date Ship SEP 1 4 2010

PRELIMINARY INSPECTION AS RECEIVED AND HIDDEN DAMAGE INSPECTION (MARK ALL THAT APPLY) (EXPLAIN WHERE APPLICABLE)

Clean X Dirty Contaminated Damaged Other Remarks

X Nicks Dents Etc Parts Missing Cracks

WORK ACCOMPLISHED

/ Overhaul Inspected Tested

Repaired Modified

Parts Scrapped	Parts Replaced	Part#	Description
		15880	RING RETAINING
		37765	SCREEN
		68007	PIN
		24859	SPRING RETAINER
		38550 1	NOZZLE ASSEMBLY
	/	36705	SPRING COMPRESSION
	/	39588-3	WASHER KEY

Test Fuel MIL-C 7024C Type II

Final Flow	Air	Fuel	Fuel Temp Test Points 80	Air Temp F Limits PPH	P Bar HGA Actual PPH	Angle Required	Actual Angle	Spray Quality	Reflow Inspec
		100/0		24 2 - 25 8	25.6	65-75 DEG	71	CK	
		400/0		SPRAY QUALITY	CHECK				
		800/0		PRESSURE TEST					

Operator _____ Date 9/13/10 Test Stand # 88 Procedure Doc # CMM 49-31-13 Rev 7 SB #

Process Inspector Approval _____ Final Inspector Approval _____

R57980 Generated 09/03/10 #2223-F

Changes to this form are not allowed without prior Accountable Manager approval

1 Approving National Aviation Authority/Country FAA/United States	2.	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 10949065-A

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9459818620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	NOZZLE ASSY	3830057-6	N/A	1	0113-PV	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-31-13, Rev 7, dated 9/29/2000

UAL 60-49-20-00/AR03

INSPECTION OF PART IN OVERHAULED CONDITION REF FORM 8130 TRACKING NUMBER 10949065 FOR DETAILS

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) SAM TOWNE	23 Date (m/d/y) October 7, 2010

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/ Country	2	3 Form Tracking Number
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	**10949065**

4 Organization Name and Address	Cert. No.	5 Work Order /Contract/Invoice Number
Delavan Inc d/b/a Turbine Fuel Technologies 2200 Delavan Drive West Des Moines, Iowa 50265	**KT2R964K**	**4202920362**

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
01	**NOZZLE ASSY**	**3830057-6**	**N/A**	**1**	**SERIAL#** **0113-PV**	**OVERHAULED**

13 Remarks FULL DETAILS OF WORK CARRIED OUT PER MFG ORDER # 697208

OVERHAULED To CMM 49-31-13 Rev 7 DATED SEPT 29/00

This document was signed electronically

To the best of our knowledge the parts referred to above have not been involved in an incident or accident and have not been subjected to extreme environmental conditions that could jeopardize its airworthy condition

"Certifies that the work specified in blocks 12/13 was performed in accordance with EASA.IR 145 and with respect to that work, the aircraft component is considered ready for release to service under EASA Acceptance Certificate Number EASA.145.4378"

"The part number marked on a part may include an alpha suffix This alpha suffix denotes the part's revision level All revision levels for a given part number are fully interchangeable The part's revision level is not required for this certification "

DLN P/N 68009-6HL

14 Certifies that items identified above were manufactured in conformity to

- ☐ Approved design data and are in condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
		Sandra Wolfe	**KT2R964K**
17 Name (Typed or Printed)	**Date (m/d/y)**	**22 Name (Typed or Printed)**	**23 Date (m/d/y)**
		SANDRA WOLFE	**SEP 14 2010**

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1
Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

Delavan Gas Turbine Products Division
2200 Delavan Drive
West Des Moines, IA 50265-010
Telephone 515 274-1561
Fax 515 271-7200

INSPECTION AND TEARDOWN REPORT

FAA REPAIR STATION # KT2R964K

Serial # As Received **0113-PV**

ITR # **10949065**

DLN M O # **697208** Date Received 09/02/10
Part# 68009-6HL
DLN Lot # H290316 DLN Sales Order # 10016812
Removed from Engine S/N

As Received		As Shipped		Changes
DLN P/N	68009-6HL	DLN P/N	68009-6HL	
S/N	0113-PV	S/N	0113 PV	
Cust P/N	3830057-6	Cust P/N	3830057-6	

RECD Customer HONEYWELL INT'L INC HL $
Cust PO # 4202920362

Special Instructions **8130 REQUIRED**

SHIP Customer
Cust PO #
Date Ship SEP 14 2010

PRELIMINARY INSPECTION AS RECEIVED AND HIDDEN DAMAGE INSPECTION (MARK ALL THAT APPLY) (EXPLAIN WHERE APPLICABLE)

Clean ✓ Dirty Contaminated Damaged Other Remarks _____
✓ Nicks Dents Etc Parts Missing Cracks

WORK ACCOMPLISHED

✓ Overhaul Inspected Tested
Repaired Modified

Parts Scrapped	Parts Replaced	Part#	Description
		15880	RING RETAINING
		37765	SCREEN
		68007	PIN
		24859	SPRING RETAINER
	✓	38550-1	NOZZLE ASSEMBLY
		36705	SPRING COMPRESSION
	✓	39588-3	WASHER, KEY

Test Fuel MIL-C 7024C Type II

Final Flow	Air	Fuel	Fuel Temp Test Points 80	Air Temp F Limits PPH	P Bar HGA Actual PPH	Angle Required	Actual Angle	Spray Quality	Reflow Inspec
		100/0		24 2 25 8	25.6	65-75 DEG	73	OK	
		400/0		SPRAY QUALITY	CHECK				
		800/0		PRESSURE TEST					

Operator _____ Date 9/13/10 Test Stand # 86 Procedure Doc # CMM 49-31-13 Rev 7 SB #

Process Inspector Approval _____ Final Inspector Approval _____

R57980 Generated 09/03/10 #2223-F

Changes to this form are not allowed without prior Accountable Manager approval

1 Approving National Aviation Authority/Country FAA/United States	2.	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 10950099-A

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9459818620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	NOZZLE ASSY	3830057-6	N/A	1	1AMT0008	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-31-13, Rev 7, dated 9/29/2000

UAL 60-49-20-00/AR03

INSPECTION OF PART IN OVERHAULED CONDITION REF FORM 8130 TRACKING NUMBER 109500099 FOR DETAILS

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43.9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) SAM TOWNE	23 Date (m/d/y) October 7, 2010

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown.

1 Approving National Aviation Authority/ Country	2	3 Form Tracking Number
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	**10950099**

4 Organization Name and Address	Cert. No.	5 Work Order /Contract/Invoice Number
Delavan Inc d/b/a Turbine Fuel Technologies 2200 Delavan Drive West Des Moines, Iowa 50265	**KT2R964K**	**4202933166**

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
01	NOZZLE ASSY	3830057-6	N/A	1	SERIAL# 1AMT0008	OVERHAULED

13 Remarks FULL DETAILS OF WORK CARRIED OUT PER MFG ORDER # 697988

This document was signed electronically

OVERHAULED To CMM 49-31-13 Rev 7 DATED SEPT 29/00

To the best of our knowledge the parts referred to above have not been involved in an incident or accident and have not been subjected to extreme environmental conditions that could jeopardize its airworthy condition

"Certifies that the work specified in blocks 12/13 was performed in accordance with EASA IR 145 and with respect to that work, the aircraft component is considered ready for release to service under EASA Acceptance Certificate Number EASA 145 4378"

"The part number marked on a part may include an alpha suffix This alpha suffix denotes the part's revision level All revision levels for a given part number are fully interchangeable The part's revision level is not required for this certification "

DLN P/N 68009-6HL

14 Certifies that items identified above were manufactured in conformity to
- [ ] Approved design data and are in condition for safe operation
- [ ] Non-approved design data specified in Block 13

19
- [X] 14 CFR 43 9 Return to Service
- [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
		Sandra Wolfe	**KT2R964K**
17 Name (Typed or Printed)	Date (m/d/y)	22 Name (Typed or Printed)	23 Date (m/d/y)
		SANDRA WOLFE	**SEP 27 2010**

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1
Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

Delavan Gas Turbine Products Division
2200 Delavan Drive
West Des Moines IA 50265-010
Telephone 515 274-1561
Fax 515-271 7200

INSPECTION AND TEARDOWN REPORT

FAA REPAIR STATION # KT2R964K

Serial # As Received **1AMT0008**

ITR # **10950099**

DLN M O # **697988** Date Received 09/08/10

Part# 68009-6HL

DLN Lot # H290687 DLN Sales Order # 10017110

Removed from Engine S/N

As Received		As Shipped		Changes
DLN P/N	68009-6HL	DLN P/N	68009-6HL	
S/N	1AMT0008	S/N	1AMT0008	
Cust P/N	3830057 6	Cust P/N	3830057 6	

RECD Customer HONEYWELL INT L INC HL $
Cust PO # 4202933166

Special Instructions **8130 REQUIRED**

SHIP Customer
Cust PO #
Date Ship SEP 2 7 2010

PRELIMINARY INSPECTION AS RECEIVED AND HIDDEN DAMAGE INSPECTION (MARK ALL THAT APPLY) (EXPLAIN WHERE APPLICABLE)

Clean | X Dirty | Contaminated | Damaged | Other | Remarks

X Nicks Dents, Etc | Parts Missing | Cracks

WORK ACCOMPLISHED

/ Overhaul | Inspected | Tested

Repaired | Modified

Parts Scrapped	Parts Replaced	Part#	Description	Parts Scrapped	Parts Replaced	Part#	Description	Parts Scrapped	Parts Replaced	Part#	Description
		15880	RING RETAINING			24859	SPRING RETAINER			36705	SPRING COMPRESSION
		37765	SCREEN			38550-1	NOZZLE ASSEMBLY	1	1	39588-3	WASHER KEY
2	2	68007	PIN								

Test Fuel MIL-C 7024C Type II

Final Flow	Fuel Temp Test Points Air	Fuel	Air Temp F Limits PPH	P Bar HGA Actual PPH	Angle Required	Actual Angle	Spray Quality	Reflow Inspec
		100/0	24 2 - 25 8	25.4	65-75 DEG	71°	OK	
		400/0	SPRAY QUALITY	CHECK				
		800/0	PRESSURE TEST				OK	

Operator 2771 Date 9/24/10 Test Stand # 39 Procedure Doc # CMM 49-31-13 Rev 7 SB #

Process Inspector Approval _____ Final Inspector Approval _____

Changes to this form are not allowed without prior Accountable Manager approval

1 Approving National Aviation Authority/Country FAA/United States	2	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 10948754-AA

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9459818620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	NOZZLE ASSY	3830057-6	N/A	1	0146-RV	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-31-13, Rev 7, dated 9/29/2000

UAL 60-49-20-00/AR03

INSPECTION OF PART IN OVERHAULED CONDITION REF FORM 8130 TRACKING NUMBER 10948754 FOR DETAILS

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) SAM TOWNE	23 Date (m/d/y) October 7, 2010

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/ Country	2	3 Form Tracking Number
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	**10948754**

4 Organization Name and Address	Cert. No.	5 Work Order /Contract/Invoice Number
Delavan Inc d/b/a Turbine Fuel Technologies 2200 Delavan Drive West Des Moines, Iowa 50265	**KT2R964K**	**4202916114**

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
01	NOZZLE ASSY	3830057-6	N/A	1	SERIAL# 0146-RV	OVERHAULED

13 Remarks FULL DETAILS OF WORK CARRIED OUT PER MFG ORDER # 696981

This document was signed electronically

OVERHAULED To CMM 49-31-13 Rev 7 DATED SEPT 29/00

To the best of our knowledge the parts referred to above have not been involved in an incident or accident and have not been subjected to extreme environmental conditions that could jeopardize its airworthy condition

"Certifies that the work specified in blocks 12/13 was performed in accordance with EASA.IR 145 and with respect to that work, the aircraft component is considered ready for release to service under EASA Acceptance Certificate Number EASA.145 4378"

"The part number marked on a part may include an alpha suffix This alpha suffix denotes the part's revision level All revision levels for a given part number are fully interchangeable The part's revision level is not required for this certification "

DLN P/N 68009-6HL

14 Certifies that items identified above were manufactured in conformity to

- ☐ Approved design data and are in condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 [X] 14 CFR 43 9 Return to Service [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
		Sandra Wolfe	**KT2R964K**
17 Name (Typed or Printed)	**Date (m/d/y)**	**22 Name (Typed or Printed)**	**23 Date (m/d/y)**
		SANDRA WOLFE	**SEP 14 2010**

User/Installer Responsibilities

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Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1
Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

Delavan Gas Turbine Products Division
2200 Delavan Drive
West Des Moines, IA 50265-010
Telephone 515-274-1561
Fax 515-271-7200

INSPECTION AND TEARDOWN REPORT

FAA REPAIR STATION # . KT2R964K

Serial # As Received **0146-RV**

ITR # **10948754**

DLN M O # **696981** Date Received 09/01/10

Part# 68009-6HL

DLN Lot # H290205 DLN Sales Order # 10016717

Removed from Engine S/N

As Received		As Shipped		Changes
DLN P/N	68009-6HL	DLN P/N	68009-6HL	
S/N	0146-RV	S/N	0146-RV	
Cust P/N	3830057-6	Cust P/N	3830057-6	

RECD Customer HONEYWELL INT'L INC HL $
Cust PO # 4202916114

Special Instructions **8130 REQUIRED**

SHIP Customer
Cust PO #
Date Ship SEP 14 2010

PRELIMINARY INSPECTION AS RECEIVED AND HIDDEN DAMAGE INSPECTION (MARK ALL THAT APPLY) (EXPLAIN WHERE APPLICABLE)

( ) Clean (X) Dirty ( ) Contaminated ( ) Damaged ( ) Other Remarks _____

(X) Nicks Dents, Etc ( ) Parts Missing ( ) Cracks

WORK ACCOMPLISHED

(✓) Overhaul ( ) Inspected ( ) Tested
( ) Repaired ( ) Modified

Parts Scrapped	Parts Replaced	Part#	Description
		15880	RING, RETAINING
		37765	SCREEN
		69007	PIN
		24859	SPRING RETAINER
		38550-1	NOZZLE ASSEMBLY
	(✓)	36705	SPRING COMPRESSION
		39588-3	WASHER, KEY

Test Fuel MIL-C 7024C Type II

Final Flow	Air	Fuel Temp Test Points 80 Fuel	Air Temp F Limits PPH	P Bar HGA Actual PPH	Angle Required	Actual Angle	Spray Quality	Reflow Inspec
		100/0	24 2 - 25 8	25.3	65-75 DEG	70	ok	
		400/0	SPRAY QUALITY	CHECK				
		800/0	PRESSURE TEST					

Operator [A] Date 9/13/10 Test Stand # 86 Procedure Doc # CMM 49-31-13 Rev 7 SB #

Process Inspector Approval _____ Final Inspector Approval [17]

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001425174Y14 5003759689-1477827-1

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9459818620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	NOZZLE ASSY FUEL	3830057-6	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS NOZZLE ASSY FUEL IS A SUBCOMPONENT OF A TSO AUTHORIZATION

SN 1BKN1446

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to	19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13
☒ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Adrian Jacquez	**OCT 01 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2.	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001425173Y14 5003759689-1477826-1

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9459818620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	NOZZLE ASSY FUEL	3830057-7	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS NOZZLE ASSY FUEL IS A SUBCOMPONENT OF A TSO AUTHORIZATION

SN 1BKL1425

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to	19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13
☒ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
	ODA-602216-NM		
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed)	23 Date (m d y)
Adrian Jacquez	**OCT 01 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/Installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2.	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	8900014251 69Y14 5003759689-1477822-1

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9459818620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	NOZZLE ASSY FUEL	3830057-7	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS NOZZLE ASSY FUEL IS A SUBCOMPONENT OF A TSO AUTHORIZATION

SN 1BKL1412

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Adrian Jacquez	**OCT 01 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001425172Y14 5003759689-1477825-1

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9459818620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	NOZZLE ASSY FUEL	3830057-7	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS NOZZLE ASSY FUEL IS A SUBCOMPONENT OF A TSO AUTHORIZATION

SN 1BKD1357

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to	19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13
☒ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
	ODA-602216-NM		
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed)	23 Date (m d y)
Adrian Jacquez	**OCT 01 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001425170Y14 5003759689-1477823-1

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9459818620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	NOZZLE ASSY FUEL	3830057-7	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS NOZZLE ASSY FUEL IS A SUBCOMPONENT OF A TSO AUTHORIZATION

SN 1BKL1406

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
	ODA-602216-NM		
17 Name (Typed or Printed) **Adrian Jacquez**	18 Date (m d y) **OCT 01 2010**	22 Name (Typed or Printed)	23 Date (m d y)

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/Installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2.	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001425171Y14 5003759689-1477824-1

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9459818620 Page 1 of 1

6. Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	NOZZLE ASSY FUEL	3830057-7	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS NOZZLE ASSY FUEL IS A SUBCOMPONENT OF A TSO AUTHORIZATION

SN 1BKD1371

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

☒ Approved design data and are in a condition for safe operation

☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Adrian Jacquez	**OCT 01 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001425168Y14 5903759689-1477821-1

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9459818620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	NOZZLE ASSY FUEL	3830057-7	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS NOZZLE ASSY FUEL IS A SUBCOMPONENT OF A TSO AUTHORIZATION

SN 1BKU1429

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

☒ Approved design data and are in a condition for safe operation

☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Adrian Jacquez	**OCT 01 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001377335Y14 5003664713-1439622-1

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9450408620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	STATOR TURB 1STG	3844038-4	N/A	1	09-150323-00305	NEW

13. Remarks :
AIRWORTHINESS APPROVAL

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Florie McCrone	**ODA-602216-NM**		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Florie McCrone	**SEP 08 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

DISTRIBUTION
1 COPY ENGINEERING MANAGER
1 COPY HOME SHOP, IF RECOVERABLE
1 COPY INSPECTION, IF EXPENDABLE

UNITED AIRLINES
SURPLUS PROCUREMENT AUTHORIZATION AND INSPECTION REQUEST
(AOP4-1-1 & MSP03-68)

A TO ENGINEERING: Ed Smith 650-634-2693 (MANAGER, PHONE#) — REQUESTED BY: NONGNOOCH MERCER

Home Shop: Tony Silva 650-634-2683 (FOREMAN, PHONE#) — DATE: 9/9/2010 — PHONE: 602-365-3534

Inspection: Al Solis 650-634-2530 (FOREMAN, PHONE#) — PURCHASE ORDER: S9450408620

WE REQUEST AUTHORIZATION TO PURCHASE THE FOLLOWING SURPLUS PART.

QTY	PART NUMBER	SERIAL NUMBER	DESCRIPTION	OEM EQUIVALENT
1	3844038-4	09-150323-00305	STATOR TURB 1STG	N/A

SOURCE: HONEYWELL — ☐ FOREIGN MAINTAINED

QUALITY ASSURANCE APPROVED: ☑ YES ☐ NO — ☑ MAINTENANCE RECORDS AVAILABLE

PARTS TRACABLE TO: AMERICAN AIRLINES

MANUFACTURER: Honeywell — TAGGED BY: Nongnoocn mercer

UNIT PRICE: _____ CURRENT OEM PRICE: _____ TSO OF UNIT: _____ TOTAL TIME OF UNIT: _____ LENGTH OF WARRANTY IF ANY: _____

CONDITION: ☑ NEW ☐ REPAIRED ☐ OVERHAULED ☐ SERVICEABLE ☐ REPAIRABLE (UNSERVICEABLE)

PART EVER INVOLVED IN ACCIDENT OR INCIDENT? ☐ YES* ☑ NO IF YES, GIVE DETAILS:

Honeywell 60

AUTHORIZED BY: NONGNOOCH MERCER (MATERIAL MANAGEMENT MANAGER) — 9/9/2010 (DATE)

B ENGINEERING ACTION AND INSPECTION INSTRUCTIONS

PURCHASE: ☐ AUTHORIZED ☐ NOT AUTHORIZED — REASON

RECEIVING INSPECTION

☐ GENERAL (VISUALLY VERIFY PART NUMBER, OTHER IDENTIFICATION, SAFETY, SECURITY, DAMAGE)

☐ CONFIGURATION

☐ COMPLIANCE TO DRAWING (CRITICAL, DIMENSIONS, HIGHLIGHTED ON DRAWINGS, AS APPLICABLE)

☐ OPERATIONAL CHECK

☐ TEST PER

☐ SPECIAL INSPECTION

☐ SPECIAL DOCUMENTS REQUIRED*

☐ ADDITIONAL INFORMATION REQUIRED

☐ *ACCIDENT PART. FOLLOW SALVAGE INSTRUCTIONS ON FORM (QA 45 - 20 - 01), AND PROCESS PER AOP 2-5-4

AUTHORIZED BY _____ (ENGINEER) _____ (DATE)

_____ (ENGINEERING MANAGER) _____ (DATE)

SFR 4352 10/03

1 Approving National Aviation Authority/Country	2 AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3; AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number
FAA/UNITED STATES		229332

4 Organization Name and Address

Ace Precision Machining Corporation, W146 N5714 Enterprise Ave , Menomonee Falls, WI 53051
FAA Repair Station #QAPR054K

5 Work Order/Contract/Invoice Number
PO# 4202840184

6 ITEM	7 DESCRIPTION	8 PART NUMBER	9 ELIGIBILTY *	10 QUANITY	11 SERIAL/BATCH NUMBER	12 STATUS/WORK
1	Combustor	3830051-5	N/A	1	S/N: N/A 150331- 229332 R	OVERHAULED

13 REMARKS

Ace Precision Machining Corp certifies that the work specified in Block 12/13 was carried out in accordance with EASA implementation rule part 145 approval, and with respect to that work, the aircraft component is considered ready for release to service under EASA 145 4015

AuthDoc ATA 49-23-49 REV: 33 Jun-30-10

Weld repair cracks — Size/straighten — Inspected per ATA manual requirements

AuthDoc. ORI P31850 REV N/C

Thermal Barrier Coat — Replace inner panel

14 Certifies the items identified above were manufactured in conformity to

- ☐ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13

Certifies that unless other wise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorizatoin No	20 Authorized Signature	21 Approval/CertificateNo
		Jennifer Mckibbins	QAPR054K
17 Name (Typed or Printed)	**18 Date (m/d/y)**	**22 Name (Typed or Printed)**	**23 Date (m/d/y)**
		Jennifer Mckibbins	Aug/26/2010

USER/INSTALLER RESPONSIBILITIES

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component assembly
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in block 1
Statements in block 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country FAA/United States	2	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 229332-A
4 Organization Name and Address Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM			5 Work Order/Contract/Invoice Number S9450048620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	COMBUSTOR	3830051-5	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev 33, dated 6/30/2010

UAL 60-49-20-00/AR03

INSPECTION OF PART IN OVERHAULED CONDITION REF FORM 8130 TRACKING NUMBER 229332

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) SAM TOWNE	23 Date (m/d/y) September 22, 2010

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country:	2.	3 Form Tracking Number.
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	B067D60

4. Organization Name and Address: WENCOR, LLC CAGE Code - 26647
1625 North 1100 West, Springville, Utah 84663-0514
Phone: (801)489-2000 Fax: (801)489-2199 ARINC/SITA SLCWEXD (PQ1370NM)

5. Work Order/Contract/Invoice Number. 26532380013

6. Item:	7 Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	BEARING, ANNULA	3613B27-1WE ref: (3613B27-1)	N/A	16	S/N: N/A BAT: N/A	NEW

13. Remarks
1. DCN: 984846
See www.wencor.com for complete eligibility

Serial Numbers: 00200, 00203, 00204, 00209, 00210, 00222, 00223, 00224, 00225, 00226, 00231, 00233, 00234, 00235, 00236, 00264.

Replacement Cert 1/10/10 DS

14. Certifies the items identified above were manufactured in conformity to:
- ☒ Approved design data and are in a condition for safe operation.
- ☐ Non-approved design data specified in Block 13.

19. ☐ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13
Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15. Authorized Signature:	16 Approval/Authorization No:	20. Authorized Signature:	21. Approval/Certificate No..
	ODA-601415-NM	N/A	N/A
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y).**
David W. Sturm	SEP/22/2010	N/A	N/A

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an *installation certification issued in accordance* with the national regulations by the user/installer before the aircraft may be flown.

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001392311Y14 5003691297-1444457-9

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
	Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9450048620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	BEARING RLR	3822099-1	N/A	1	09-162370-14166	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

14 Certifies the items identified above were manufactured in conformity to	19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13		
☒ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service		
15 Authorized Signature Dennis Strobehn	16 Approval/Authorization No **ODA-602216-NM**	20 Authorized Signature	21 Approval/Certificate No
17 Name (Typed or Printed) **Dennis Strobehn**	18 Date (m d y) **SEP 15 2010**	22 Name (Typed or Printed)	23 Date (m d y)

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country FAA/United States	2.	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 307084582-013

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9448628620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	SEAL, STTR 3STG	3844043-2	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev 33, dated 6/30/2010

UAL 60-49-20-00/AR03
INSPECTION OF 3844043-2 IN OVERHAULED CONDITION REF, FORM 8130 TRACKING NUMBER 228715
DATED AUG/25/2010

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14. Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature (22)	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) MARIO GASCA	23 Date (m/d/y) September 14, 2010

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2 AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number
FAA/UNITED STATES		228715

4 Organization Name and Address

Ace Precision Machining Corporation, W146 N5714 Enterprise Ave , Menomonee Falls, WI 53051
FAA Repair Station #QAPR054K

5 Work Order/Contract/Invoice Number
PO# 4202801784

6 ITEM	7 DESCRIPTION	8 PART NUMBER	9 ELIGIBILTY *	10 QUANITY	11 SERIAL/BATCH NUMBER	12 STATUS/WORK
1	Seal, STTR 3STG	3844043-2	N/A	1	S/N N/A 150331- 228715 R	OVERHAULED

13 REMARKS

Ace Precision Machining Corp certifies that the work specified in Block 12/13 was carried out in accordance with EASA implementation rule part 145 approval, and with respect to that work, the aircraft component is considered ready for release to service under EASA 145 4015

AuthDoc. ATA 49-23-49 REV: 33 Jun-30-10

Replace Honeycomb Seal

Inspected per ATA manual requirements

14 Certifies the items identified above were manufactured in conformity to

- ☐ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13

Certifies that unless other wise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorizatoin No	20 Authorized Signature	21 Approval/CertificateNo
		Jennifer Mckibbins	QAPR054K
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) Jennifer Mckibbins	23 Date (m/d/y) Aug/25/2010

USER/INSTALLER RESPONSIBILITIES

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component assembly
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in block 1
Statements in block 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

OMB Control No 2120-0018
09/30/2007

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001020882Y14 5003108875-1130862-1

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PC413NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9385438620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	RING SEAL	3844017-1	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Gabriela Capatina	**ODA-602216-NM**		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Gabriela Capatina	**FEB 23 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1. Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

FAA form 8130 - 3 (6-01) * Installer must cross check eligibility with applicable technical data NSN 0052 - 00 - 012 - 9005

Paperwork Reduction Act Statement
An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number associated with this collection of information is 2120-0018. Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at 800 Independence Ave. SW, Washington, DC 20591, Attn: Information Collection Clearance Officer, ABA-20.

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001343251Y14 5003624156-1401435-1

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PC413NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9442538620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	STATOR TURB 2STG	3844012-3	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

LN 09-150323-205

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
	ODA-602216-NM		

17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed)	23 Date (m d y)
Adrian Jacquez	**AUG 19 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country FAA/United States	2.	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 223388
4 Organization Name and Address Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM			5 Work Order/Contract/Invoice Number S9413398620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	SEAL STTR 2STG	3844036-2	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev. 31, dated 12/31/2009

UAL 60-49-20-00/AR03

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) NONGNOOCH MERCER	23 Date (m/d/y) April 20, 2010

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2 AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number
FAA/UNITED STATES		223388

4 Organization Name and Address

Ace Precision Machining Corporation, W146 N5714 Enterprise Ave , Menomonee Falls, WI 53051
FAA Repair Station #QAPR054K

5 Work Order/Contract/Invoice Number
PO# 4202444368

6 ITEM	7 DESCRIPTION	8 PART NUMBER	9 ELIGIBILTY *	10 QUANITY	11 SERIAL/BATCH NUMBER	12 STATUS/WORK
1	Seal, STTR 2STG	3844036-2	N/A	1	S/N N/A 150331- 223388 R	OVERHAULED

13 REMARKS

Ace Precision Machining Corp certifies that the work specified in Block 12/13 was carried out in accordance with EASA implementation rule part 145 approval and with respect to that work, the aircraft component is considered ready for release to service under EASA 145 4015

AuthDoc: ATA 49-23-49 REV: 31 12-31-09

Replace Honeycomb Seal

Inspect per ATA manual requirements

14 Certifies the items identified above were manufactured in conformity to

☐ Approved design data and are in a condition for safe operation

☐ Non-approved design data specified in Block 13

19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13

Certifies that unless other wise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorizatoin No	20 Authorized Signature	21 Approval/CertificateNo
		Suzanne Loichinger	QAPR054K
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) Suzanne Loichinger	23 Date (m/d/y) Feb/16/2010

USER/INSTALLER RESPONSIBILITIES

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component assembly
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1 it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in block 1
Statements in block 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001422754Y14 5003759689-1473072-1

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9459818620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	PUMP ASSEMBLY SCAVENGE	3880160-3	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS PUMP ASSEMBLY SCAVENGE IS A SUBCOMPONENT OF A TSO AUTHORIZATION

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

☒ Approved design data and are in a condition for safe operation

☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
	ODA-602216-NM		
17 Name (Typed or Printed) **Adrian Jacquez**	18 Date (m d y) **SEP 30 2010**	22 Name (Typed or Printed)	23 Date (m d y)

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/Installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2.	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001392312Y14 5003691297-1444457-1

4 Organization Name and Address	Production Approval		5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	PC413NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9450048620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	RING SEAL	3101874-1	N/A	1	N/A	NEW

13. **Remarks :**

AIRWORTHINESS APPROVAL

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

☒ Approved design data and are in a condition for safe operation

☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Dennis Strobehn	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Dennis Strobehn	**SEP 15 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/Installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country FAA/United States	2.	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 306857256-A
4 Organization Name and Address Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM			5 Work Order/Contract/Invoice Number S9450048620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	COUPLING CURVIC ROTOE SEAL	3840011-3	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev 32, dated 3/31/2010

UAL 60-49-20-00/AR03

INSPECTION OF PART IN OVERHAULED CONDITION REF FORM 8130 TRACKING NUMBER 306857256

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) SAM TOWNE	23 Date (m/d/y) September 22, 2010

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001334301Y15 306857256

4 Organization Name and Address		5 Work Order/Contract/Invoice Number
Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	Repair Station ZN3R030M	N/A 306795946 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	COUPLING, CURVIC, ROTOR SEAL	3840011-3	N/A	1	N/A	OVERHAULED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH
ORI P31653 Rev NC, MAY/29/2007
ORI P34285 Rev A, APR/07/2009
IRM 49-23-49 Rev 32, MAR/31/2010
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER EASA 145 1136

14 Certifies the items identified above were manufactured in conformity to		19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature *Joe Profita*	21 Approval/Certificate No **ZN3R030M**
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed) **Joseph Profita**	23 Date (m d y) **AUG 16 2010**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

Phoenix - Sky Harbor
Honeywell International Inc
1944 E Sky Harbor Circle
PHOENIX AZ 85034

Commercial

Honeywell

Repair Station ZN3R030M

Date 16 AUG 2010

Configuration And Findings Evaluation

Repair Order	2010-005003553730-001 306857256	**Customer:**		
Customer P/O	N/A	**Orig Cust:**		
Part Number.	3840011-3	**Part Desc.** COUPLING, CURVIC, ROTOR SEAL		**Serial No:**
Mods:				
Series/Issue/Amdts:				
Quantity:	1	**Ship Date**		**Received Date:**08 JUL 2010
Aircraft tail #:		**Aircraft S/N#:**	**Date on:**	**Date off:**
Model #:		**Engine S/N.**		**Alternate S/N:**

TIMES / CYCLES

Time Since New:	**Cycles Since New:**
Time Since Overhaul:	**Cycles Since Overhaul:**
Time Since Repair:	**Cycles Since Repair:**

CUSTOMER REASON FOR RETURN

Overhaul

GENERAL CONDITION AS RECEIVED (HIDDEN DAMAGE)

Condition Received Text

Diameters B & D are scored Curvic Runout is out of tolerance

Reason for return Code DAMAGED

Removal Type

DETAIL DISASSEMBLY / EVALUATION FINDINGS

Failure Description:

Findings:

Related Area: **Non-conformance:** **Recurrent Failure:**

Failed Part	Part Name	Condition:	Primary Failure

SERVICE BULLETINS / AUTHORIZING DOCUMENTS

Authorizing Technical Document

Doc# IRM 49-23-49 Rev 32 Date 03/31/2010
Doc# P31653 Rev NC Date 05/29/2007
Doc# P34285 Rev A Date 04/07/2009

WORK PERFORMED / COMMENTS TO CUSTOMER

Workscope Performed / Summary of Actions Taken

codes 800-801-802 to restore diameters and curvic runout

Action Taken Code Overhaul

Customer Confirmed Removal Reason:

Evaluation Type

Phoenix - Sky Harbor
Honeywell International Inc
1944 E Sky Harbor Circle
PHOENIX AZ 85034
Date 16 AUG 2010

Honeywell

Commercial

Repair Station ZN3R030M

Configuration And Findings Evaluation

Repair Order	2010-005003553730-001 306857256	**Customer:**		
Customer P/O.	N/A	**Orig Cust.**		
Part Number:	3840011-3	**Part Desc:**	COUPLING, CURVIC, ROTOR SEAL	**Serial No:**
Mods:				
Series/Issue/Amdts:				
Quantity.	1	**Ship Date:**		**Received Date** 08 JUL 2010

FINAL CONFIGURATION
Part No: 3840011-3

S/N.

Series/Issue/Amdts:

Mods:

MECHANIC/ANALYST Irene Farrell

DATE: 02 AUG 2010

1 Approving National Aviation Authority/Country FAA/United States	2.	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 307248766-005

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9456018620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	SUPPORT	3844009-1	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev 33, dated 6/30/2010

UAL 60-49-20-00/AR03
INSPECTION OF 3844009-1 IN OVERHAULED CONDITION REF, FORM 8130 TRACKING NUMBER 229685
DATED SEP/16/2010

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14. Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature (22)	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) MARIO GASCA	23 Date (m/d/y) October 7, 2010

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 'Approving National Aviation Authority/Country	2 AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIR WORTHINESS APPROVAL TAG	3 Form Tracking Number
FAA/UNITED STATES		229685

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Ace Precision Machining Corporation W146 N5714 Enterprise Ave Menomonee Falls, WI 53051 FAA Repair Station #QAPR054K	PO# 4202875725

6 ITEM	7 DESCRIPTION	8 PART NUMBER	9 ELIGIBILITY *	10 QUANTITY	11 SERIAL/BATCH NUMBER	12 STATUS/WORK
1	Support	3844009-1	N/A	1	S/N. N/A 150331-229685 R	Overhauled

13 REMARKS

Ace Precision Machining Corp certifies that the work specified in Block 12/13 was carried out in accordance with EASA implementation rule part 145 approval, and with respect to that work, the aircraft component is considered ready fro release to service under EASA 145 4015

Auth Doc: ATA 49-23-49 **Rev** 33 06-30-10
Inspected per ATA manual requirements Size/straighten

Auth Doc: ORI P31973 **Rev** A 02-04-08
Replace top ring

14 Certifies the items identified above were manufactured in conformity to	19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature.	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Authorization No
		Jennifer McKibbins	QAPR054K
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed)	23 Date (m/d/y)
		Jennifer McKibbins	Sep/16/2010

USER/INSTALLER RESPONSIBILITIES

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component assembly
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in block 1
Statements in block 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001392308Y14 5003691297-1444457-3

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PC413NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9450048620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	SHROUD FUEL NOZ	3830054-9	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Dennis Strobehn	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Dennis Strobehn	**SEP 15 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/Installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001392313Y14 5003691297-1444457-1

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PC413NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9450048620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	RING SEAL	3844059-1	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

☒ Approved design data and are in a condition for safe operation

☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Dennis Strobehn	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Dennis Strobehn	**SEP 15 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country FAA/United States	2	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 307122210-A
4 Organization Name and Address. Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034		FAA Certificate # ZN3RO3OM	5 Work Order/Contract/Invoice Number S9450048620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	SEAL ASSY TURB BRG	3844065-2	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev 33, dated 6/30/2010

UAL 60-49-20-00/AR03

INSPECTION OF PART IN OVERHAULED CONDITION REF FORM 8130 TRACKING NUMBER 307122210

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, *Code of* Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) SAM TOWNE	23 Date (m/d/y) September 22, 2010

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2.	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001372993Y15 307122210

4 Organization Name and Address	Repair Station	5 Work Order/Contract/Invoice Number
Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	ZN3R030M	N/A 307065175 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	SEAL ASSY TURB BRG	3844065-2	N/A	1	N/A	OVERHAULED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH IRM 49-23-49 Rev 33, JUN/30/2010

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER EASA 145.4136

14 Certifies the items identified above were manufactured in conformity to	19 ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed) **Tony Valle**
		21 Approval/Certificate No **ZN3R030M**
		23 Date (m d y) **SEP 04 2010**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1. Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1 Approving National Aviation Authority/Country	2.	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001400014Y14 5003691297-1454555-1

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PC413NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9450048620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	HOUSING ASSEMBLY, BEARING INLET	3810127-1	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Adrian Jacquez	**SEP 17 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2	AUTHORIZED RELEASE CERTIFICATE	3 Form Tracking Number
FAA/United States		FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	229717-A

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9450048620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	SEAL LABYRINTH	3844050-2	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev 33, dated 6/30/2010

UAL 60-49-20-00/AR03

INSPECTION OF PART IN OVERHAULED CONDITION REF FORM 8130 TRACKING NUMBER 229717

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to	19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
			ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed)	23 Date (m/d/y)
		SAM TOWNE	September 22, 2010

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1 it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2 AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number
FAA/UNITED STATES		229717

4 Organization Name and Address

Ace Precision Machining Corporation, W146 N5714 Enterprise Ave , Menomonee Falls, WI 53051
FAA Repair Station #QAPR054K

5 Work Order/Contract/Invoice Number
PO# 4202877820

70

6 ITEM	7 DESCRIPTION	8 PART NUMBER	9 ELIGIBILTY *	10 QUANITY	11 SERIAL/BATCH NUMBER	12 STATUS/WORK
1	Seal, Labyrinth	3844050-2	N/A	1	S/N: N/A 150331- 229717 R	OVERHAULED

13 REMARKS

Ace Precision Machining Corp certifies that the work specified in Block 12/13 was carried out in accordance with EASA implementation rule part 145 approval, and with respect to that work, the aircraft component is considered ready for release to service under EASA 145 4015

AuthDoc ATA 49-23-49 REV: 33 Jun-30-10

Metal spray surface -B- Inspected per ATA manual requirements

AuthDoc. ORI P31603 REV: A 11/03/08

Replace Honeycomb Seal

14 Certifies the items identified above were manufactured in conformity to	19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13		
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless other wise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service		
15 Authorized Signature	16 Approval/Authorizatoin No	20 Authorized Signature	21 Approval/CertificateNo
			QAPR054K
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) Jennifer Mckibbins	23 Date (m/d/y) Sep/08/2010

USER/INSTALLER RESPONSIBILITIES

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component assembly
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in block 1
Statements in block 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country FAA/United States	2	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 307051725-A

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9450048620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	LINER ASSY	3844001-3	N/A	1	N/A	Inspected

13 Remarks

Return to service. Items provided by the customer have been serviced in accordance with 49-23-49, Rev 33, dated 6/30/2010

UAL 60-49-20-00/AR03

INSPECTION OF PART IN OVERHAULED CONDITION REF FORM 8130 TRACKING NUMBER 307051725

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) SAM TOWNE	23 Date (m/d/y) September 22, 2010

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001370248Y15 307051725

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International Inc Nádražní 400 783 66 HLUBOČKY - MARIÁNSKÉ ÚDOLÍ CZECH REPUBLIC Repair Station MXHY520X	2780329 306954317 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	LINER ASSY	3844001-3	N/A	1	N/A	OVERHAULED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH
IRM 49-23-49 Rev 33
ORI T40452 Rev -

Traceability Number 3300-2780329 R

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER EASA CZ 145 0034

14 Certifies the items identified above were manufactured in conformity to	19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature / 16 Approval/Authorization No	20 Authorized Signature authority per FAR 145 OP 011/2008	21 Approval/Certificate No **MXHY520X**
17 Name (Typed or Printed) / 18 Date (m d y)	22 Name (Typed or Printed) **Petr Balaz**	23 Date (m d y) **SEP 03 2010**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country FAA/United States	2.	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 307269683-A
4 Organization Name and Address Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM			5 Work Order/Contract/Invoice Number S9450048620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	HOUSING ASSY COMPRESSOR	3826138-3	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev 33, dated 6/30/2010

UAL 60-49-20-00/AR03

INSPECTION OF PART IN OVERHAULED CONDITION REF FORM 8130 TRACKING NUMBER307269683

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified In Block 13, the work identified in Block 12 and described in Block 13 was accomplished In accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) SAM TOWNE	23 Date (m/d/y) September 22, 2010

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001396192Y15 307269683

4 Organization Name and Address	Repair Station	5 Work Order/Contract/Invoice Number
Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	ZN3R030M	N/A 307238046 Page 1 of 1

6 Item	7 Description	8. Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	HOUSING ASSY CPRSR	3826138-3	N/A	1	N/A	OVERHAULED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH
IRM 49-23-49 Rev 33, JUN/30/2010
ORI P31488 Rev C, AUG/23/2010

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER. EASA 145.4136

14 Certifies the items identified above were manufactured in conformity to	19 ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature 196
17 Name (Typed or Printed).	18 Date (m d y)	22 Name (Typed or Printed) **Albert J Lucas**
		21 Approval/Certificate No **ZN3R030M**
		23 Date (m d y) **SEP 16 2010**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1. Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

Phoenix - Sky Harbor
Honeywell International Inc
1944 E Sky Harbor Circle
PHOENIX AZ 85034
Date 16 SEP 2010

Honeywell

Commercial

Repair Station ZN3R030M

Configuration And Findings Evaluation

Repair Order: 2010-005003723115-001 307269683 **Customer:** PLANT1014 Aerospace-Phoenix (Sky Harbor) Honeywell International Inc

Customer P/O: N/A **Orig Cust:**

Part Number: 3826138-3 **Part Desc:** HOUSING ASSY CPRSR **Serial No:**

Mods:

Series/Issue/Amdts:

Quantity: 1 **Ship Date:** **Received Date:**08 SEP 2010

Aircraft tail #: **Aircraft S/N#:** **Date on:** **Date off:**

Model #: **Engine S/N:** **Alternate S/N:**

TIMES / CYCLES

Time Since New: **Cycles Since New:**

Time Since Overhaul: **Cycles Since Overhaul:**

Time Since Repair: **Cycles Since Repair:**

CUSTOMER REASON FOR RETURN

Overhaul

GENERAL CONDITION AS RECEIVED (HIDDEN DAMAGE)

Condition Received Text

Worn

Reason for return Code

Removal Type

DETAIL DISASSEMBLY / EVALUATION FINDINGS

Failure Description:

Findings:

Related Area: **Non-conformance:** **Recurrent Failure:**

Failed Part **Part Name** **Condition:** **Primary Failure**

SERVICE BULLETINS / AUTHORIZING DOCUMENTS

Authorizing Technical Document
Doc#: P31488 Rev C Date 08/23/2010
Doc#. IRM 49-23-49 Rev 33 Date 06/30/2010

WORK PERFORMED / COMMENTS TO CUSTOMER

Workscope Performed / Summary of Actions Taken
VISAUL, R/R CONTOUR COATING & 2EA ANTI-ROTATION PINS

Action Taken Code Overhaul

Customer Confirmed Removal Reason:

Evaluation Type

Phoenix - Sky Harbor
Honeywell International Inc
1944 E Sky Harbor Circle
PHOENIX AZ 85034
Date 16 SEP 2010

Commercial

Honeywell

Repair Station ZN3R030M

Configuration And Findings Evaluation

Repair Order: 2010-005003723115-001 307269683
Customer: PLANT1014 Aerospace-Phoenix (Sky Harbor) Honeywell International Inc
Customer P/O: N/A
Orig Cust:
Part Number. 3826138-3
Part Desc: HOUSING ASSY CPRSR
Serial No:
Mods:
Series/Issue/Amdts:
Quantity: 1
Ship Date:
Received Date: 08 SEP 2010

FINAL CONFIGURATION
Part No: 3826138-3
S/N:

Series/Issue/Amdts:

Mods:

MECHANIC/ANALYST David Daley
DATE: 08 SEP 2010

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001402187Y14 5003691297-1457896-1

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PC413NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9450048620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	RETAINER BRG	3826160-2	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

- [X] Approved design data and are in a condition for safe operation
- [ ] Non-approved design data specified in Block 13

19 [ ] 14 CFR 43 9 Return to Service [ ] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Gabriela Capatina	**ODA-602216-NM**		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Gabriela Capatina	**SEP 20 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2.	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001392310Y14 5003691297-1444457-7

4 Organization Name and Address	Production Approval		5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9450048620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	BELL INL CPRSR	3810211-3	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

- [X] Approved design data and are in a condition for safe operation
- [ ] Non-approved design data specified in Block 13

19 [ ] 14 CFR 43 9 Return to Service [ ] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Dennis Strobehn	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Dennis Strobehn	**SEP 15 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2.	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001392309Y14 5003691297-1444457-4

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PC413NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9450048620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	ROTOR	3822057-3	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Dennis Strobehn	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Dennis Strobehn	**SEP 15 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national *regulations of an airworthiness* authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness *authority of the country* specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the *user/installer* before the aircraft may be flown

1 Approving National Aviation Authority/Country FAA/United States	2	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 307120944

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9450048620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	TIE SHAFT ASSY	3822077-4	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev· 32, dated 3/31/2010

UAL 60-49-20-00/AR03

INSPECTION OF PART IN OVERHAULED CONDITION REF FORM 8130 TRACKING NUMBER 307120944

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) SAM TOWNE	23 Date (m/d/y) September 22, 2010

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001384795Y15 307120944

4 Organization Name and Address		5 Work Order/Contract/Invoice Number
Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	Repair Station ZN3R030M	N/A 307052298 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	TIE SHAFT ASSY	3822077-4	N/A	1	N/A	OVERHAULED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH
IRM 49-23-49 Rev 32, MAR/31/2010
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER EASA 145.4136

14 Certifies the items identified above were manufactured in conformity to		19 ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No **ZN3R030M**
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed) **Jason Leyvas**	23 Date (m d y) **SEP 11 2010**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1. Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

Phoenix - Sky Harbor
Honeywell International Inc
1944 E Sky Harbor Circle
PHOENIX, AZ 85034

Commercial

Honeywell

Repair Station ZN3R030M

Date 11 SEP 2010

Configuration And Findings Evaluation

Repair Order: 2010-005003664368-001 **Customer:**
307120944
Customer P/O: N/A **Orig Cust.**
Part Number 3822077-4 **Part Desc:** TIE SHAFT ASSY **Serial No:**
Mods
Series/Issue/Amdts:
Quantity: 1 **Ship Date:** **Received Date:**17 AUG 2010
Aircraft tail #: **Aircraft S/N#.** **Date on.** **Date off:**
Model #. **Engine S/N:** **Alternate S/N:**

TIMES / CYCLES

Time Since New: **Cycles Since New:**
Time Since Overhaul: **Cycles Since Overhaul:**
Time Since Repair: **Cycles Since Repair:**

CUSTOMER REASON FOR RETURN

overhaul

GENERAL CONDITION AS RECEIVED (HIDDEN DAMAGE)

Condition Received Text

Gearshaft is sheared in coupling, dia -f-,-d- worn, minor nicks

Reason for return Code

Removal Type

DETAIL DISASSEMBLY / EVALUATION FINDINGS

Failure Description:

Findings:

Related Area: **Non-conformance:** **Recurrent Failure:**

Failed Part **Part Name** **Condition:** **Primary Failure**

Failure Description:

Findings:

Related Area: **Non-conformance:** **Recurrent Failure:**

Failed Part **Part Name** **Condition:** **Primary Failure**

Failure Description:

Findings:

Related Area: **Non-conformance:** **Recurrent Failure:**

Phoenix - Sky Harbor
Honeywell International Inc
1944 E Sky Harbor Circle
PHOENIX AZ 85034

Commercial

Honeywell

Repair Station ZN3R030M

Date 11 SEP 2010

Configuration And Findings Evaluation

Repair Order.	2010-005003664368-001 307120944	**Customer.**	
Customer P/O	N/A	**Orig Cust.**	
Part Number	3822077-4	**Part Desc:** TIE SHAFT ASSY	**Serial No:**
Mods			
Series/Issue/Amdts:			
Quantity	1	**Ship Date:**	**Received Date.** 17 AUG 2010

Failed Part	Part Name	Condition:	Primary Failure

SERVICE BULLETINS / AUTHORIZING DOCUMENTS

Authorizing Technical Document

Doc# IRM 49-23-49 Rev 32 Date 03/31/2010

WORK PERFORMED / COMMENTS TO CUSTOMER

Workscope Performed / Summary of Actions Taken

VISUAL, HAND FINISH, DIM, FPI, CLEAN, METAL SPRAY, AUTH DOCS IRM 49-23-49 Rev 32, MAR/31/2010

Action Taken Code Overhaul

Customer Confirmed Removal Reason:

Evaluation Type

FINAL CONFIGURATION

Part No: 3822077-4

S/N.

Series/Issue/Amdts:

Mods:

MECHANIC/ANALYST Paul Gilbert

DATE 19 AUG 2010

WORK CENTER: 551

SERIAL NBR	ET	MT	NAME	PWR RTG	CUST
61590		V	APU331	200E	UA

ORDER NUMBER
V656

COAS FOR MODULE TYPE N = SERIAL NUMBER P=1266 MODULE NAME: POWER SECTION WORK CENTER: 551

COA NUMBER	COA CAT	MODULE/ FUNC NBR	UNIT SERIAL	UNIT COA STATUS	ISS	COMP	COA TITLE	COMPLETION DATE

*** NO COAS SCHEDULED FOR THIS UNIT ***

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, ACCY GEARCASE

REV. 4/26/07

AV665	62697	V3000.0
ORDER NO.	ENGINE NO	JOB NO.

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

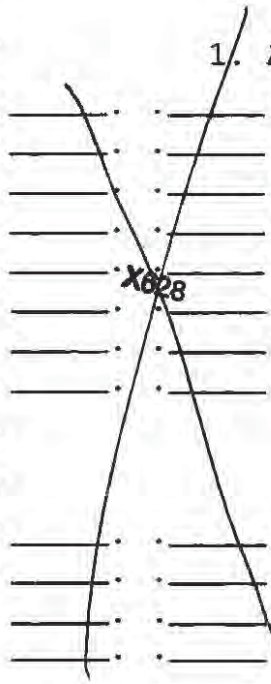
NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT



V0002.0 - NON-ROUTINE ACCOUNTABILITY
V3010.0 ACCY GEARCASE - DISASSEMBLY
V3020.0 ACCY GEARCASE - CLEANING
V3040.0 49-26-01ACCESSORY GEARBOX ASSEMBLY
V4010.0 GEN SCAV PUMP - DISASSEMBLY AND CLEAN
V4040.0 GEN SCAVENGE PUMP - ASSEMBLY
V7010.0 STARTER CLUTCH - DISASSEMBLY/CLEANING
V7040.0 STARTER CLUTCH - ASSEMBLY
NOTE - INCLUDE 49-26-01/ICS - ACCESSORY GEARBOX/CLUTCH AY INSPECTION WITH LOG PACKAGE.

4

Job Instruction Card

331-200 COVER PAGE, ACCY GEARCASE

REV. 4/26/07

AV665	62697	V3000.0
ORDER NO	ENGINE NO	JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

#2 NO COA'S X628

X628.

X628.

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

   ASSEMBLY S/N: X628

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

   SIGNATURE: X628 DATE: 10/22/10

END JOB V3000.0 REVISED 4/26/07

WORK CENTER: 551

SERIAL NBR	ET	MT	NAME	PWR RTG	CUST
62697		V	APU331	200E	UA

ORDER NUMBER
V665

COAS FOR MODULE TYPE A - SERIAL NUMBER P209 MODULE NAME: GEARBOX ASSMBLY WORK CENTER: 551

COA NUMBER	COA CAT	MODULE/ FUNC NBR	UNIT SERIAL	UNIT COA STATUS	ISS	COMP	COA TITLE	COMPLETION DATE

*** NO COAS SCHEDULED FOR THIS UNIT ***

*** END OF REPORT ***

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, OIL PUMP

REV. 4/26/07

PV665	62697	V5000.0
ORDER NO	ENGINE NO	JOB NO

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

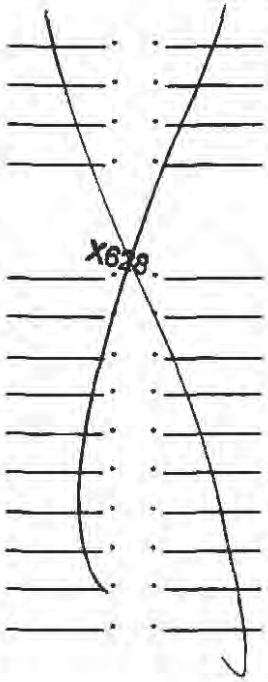
NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT



V0002.0 - NON-ROUTINE ACCOUNTABILITY
V5010.0 OIL PUMP - DISASSEMBLY
V5020.0 OIL PUMP - CLEANING
V5040.0 OIL PUMP - ASSEMBLE
NOTE - INCLUDE 60-49-10-01-01 ICS - OIL PUMP MODULE 'PV' WITH LOG PACKAGE.

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, OIL PUMP

REV. 4/26/07

PV665	62697	V5000.0
ORDER NO	ENGINE NO	JOB NO

X628

of 2 NOCEN'S X628

~~X628~~

X628

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

   ASSEMBLY S/N: 2025 X628

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

   SIGNATURE: X628 DATE: 12/21/10

END JOB V5000.0 REVISED 4/26/07

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, LOAD COMPRESSOR

REV. 4/26/07

FV654	60221	V6000.0
ORDER NO.	ENGINE NO	JOB NO

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT

X629 V0002.0 - NON-ROUTINE ACCOUNTABILITY

X628 X628 V6010.0 DRIVEN COMPRESSOR - DISASSEMBLE

X629 X628 V6020.0 DRIVEN COMPRESSOR - CLEANING

X629 X629 V6040.0 DRIVEN COMPRESSOR - ASSEMBLY

NOTE - INCLUDE 60-49-25-00-00 ICS - LOAD COMPRESSOR/IGV MODULE 'FV' WITH LOG PACKAGE.

X629

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, LOAD COMPRESSOR

REV. 4/26/07

ORDER NO	ENGINE NO.	JOB NO.
FV654	60221	V6000.0

X629

#2 NO COA'S X629

X629

X629

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

ASSEMBLY S/N: P-1166 X629

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

SIGNATURE: X629 DATE: 10/11/10

END JOB V6000.0 REVISED 4/26/07

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 DRIVEN COMPRESSOR - DISASSEMBLE

REV. 4/2/93

FV654	60221	V6010.0
ORDER NO	ENGINE NO	JOB NO

ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-25-01/SP02.

M 7239 1. REMOVE DRIVEN COMPRESSOR COMPONENTS.

M 7239 2. REMOVE IGV ACTUATOR.

M 7239 3. REMOVE IGV MOUNT AND BELLCRANK.

M 7239 4. REMOVE INLET HOUSING AND IGV ASSEMBLY.

M 7239 5. REMOVE INLET BEARING HOUSING ASSEMBLY.

M 7239 6. REMOVE BACKSHROUD.

M 7239 7. REMOVE SEAL CARRIER.

M 7239 8. DISASSEMBLE ROTATING GROUP.

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 DRIVEN COMPRESSOR - DISASSEMBLE

REV. 4/2/93

FV654	60221	V6010.0
ORDER NO	ENGINE NO	JOB NO.

END JOB V6010.0 REVISED 4/2/93

551

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 DRIVEN COMPRESSOR - CLEANING

REV. 4/27/01

FV654	60221	V6020.0
ORDER NO	ENGINE NO	JOB NO

1. U L962 UTILITY MECHANIC (U) CLEAN LOAD COMPRESSOR PARTS PER GN 4-0-3-20 PROCESS 01 (SOLVENT CLEAN), AND/OR GN 4-0-3-20 PROCESS 2C.

   NOTE - DO NOT CLEAN IGV ASSEMBLY. NO CLEANING PERMITTED UNLESS DISASSEMBLED.

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 DRIVEN COMPRESSOR - CLEANING

REV. 4/27/01

FV654	60221	V6020.0
ORDER NO	ENGINE NO.	JOB NO

END JOB V6020.0 REVISED 4/27/01

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 DRIVEN COMPRESSOR - ASSEMBLY

REV. 4/8/09

FV654	60221	V6040.0
ORDER NO.	ENGINE NO.	JOB NO.

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-25-01.

ASSIGNED TO ENGINE ORDER NUMBER V665 X628

M 7066 1. ZERO FACE TIP CLEARANCE CHECK AND ASSEMBLE ROTATING GROUP.

.007 RECORD TIP CLEARANCE

M 7066 2. STRETCH SHAFT.

1.215 DIMENSION A

-1.204 DIMENSION B

=.011 SHAFT STRECH (0.011 - 0.012)

----- CONTINUOUS AIRWORTHINESS ITEM -----LOAD COMPRESSER TIESHAFT INSTALLATION - CHECK AND VERIFY STRETCH MEASUREMENT.

M 7066 3. CHECK ROTATING GROUP RUNOUT. RECORD COMPRESSOR ROTOR TIP RUNOUT.

RUNOUT .001 (0.003 INCH MAX)

M 7066 4. INSTALL SEAL IN INLET HOUSING.

M 7066 5. ASSEMBLE BEARING AND INLET BEARING HOUSING. MARK WHICH BEARING INSTALLED.

7066 A. CONFIGURATION "A" TIMKEN BEARING.

M 7066 6. INSTALL IGV CONTROL ROD.

M 7066 7. INSTALL IGV TO SCROLL HOUSING AND INLET HOUSING.

M 7066 8. INSTALL IGV MOUNT AND BELLCRANK.

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 DRIVEN COMPRESSOR - ASSEMBLY

REV. 4/8/09

FV654	60221	V6040.0
ORDER NO	ENGINE NO	JOB NO.

M 7066 9. INSTALL IGV ACTUATOR AND COMPONENTS

M 7066 10. ADJUST INLET GUIDE VANES.

----- CONTINUOUS AIRWORTHINESS ITEM -----IGV SYSTEM INSTALLATION - CHECK RIGGING OF LOAD COMPRESSOR IGV'S, IGV ASSEMBLY, AND IGV ACTUATOR FOR ITEMS 6-10. DUPLICATE SIGN-OFF ON JOB V1040.0

M 7066 11. CHECK DIFFUSER TO IMPELLER VOLUTE FOR NEGATIVE STEP.

L962 LM 7066 12. DETERMINE SHIM THICKNESS REQUIREMENTS BETWEEN COMPRESSOR ROTOR AND SCROLL HOUSING.

.007 DIMENSION A

0.100 TRIAL SHIM THICKNESS

+.029 DIMENSION B (0.036 - DIM. A = DIM. B)

=.129

+1.351 DIMENSION 3A

=1.480

-1.430 DIMENSION 3B

=.050 REQUIRED SHIM THICKNESS

M 7066 13. INSTALL ROTATING GROUP.
VERIFY AND RECORD TIP CLEARANCE (0.036 +/- .000-.002)
.036 RECORD TIP CLEARANCE

551

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 DRIVEN COMPRESSOR - ASSEMBLY

REV. 4/8/09

FV654	60221	V6040.0
ORDER NO	ENGINE NO	JOB NO

L962 LM 7066 14. RECORD AVG EFFECTIVE AREA PRINTED ON PART N/A. (LIMIT 0.2407-0.2499). NOTIFY ENGINEERING IF EFFECTIVE AREA IS ABOVE 0.2450 .

M 7066 15. DETERMINE DIFFUSER SPACING SHIM REQUIREMENTS.

.307 DIMENSION 4C

-.286 DIMENSION 4D

=.021 REQUIRED SHIM THICKNESS (+/- 0.001)

M 7066 16. DETERMINE CLEARANCE BETWEEN BEARING CARRIER AND BACKSHROUD.

.905 DIMENSION 5A

-.213 DIMENSION 5B

=.692

- 0.640 INCH

=.052 REQUIRED SHIM THICKNESS (+/- 0.005)

M 7066 17. ASSEMBLE DRIVEN COMPRESSOR. (SEE FIGURE 716)

M 7066 18. ASSEMBLE DRIVEN COMPRESSOR. (SEE FIGURE 717)

M 7066 19. ASSEMBLE DRIVEN COMPRESSOR. (SEE FIGURE 718)

M 7066 20. INSTALL INLET TEMPERATURE SENSOR (CIT PROBE).

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 DRIVEN COMPRESSOR - ASSEMBLY

REV. 4/8/09

FV654	60221	V6040.0
ORDER NO	ENGINE NO.	JOB NO

END JOB V6040.0 REVISED 4/8/09

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

UNITED AIRLINES

GTCP331-200ER APU Engine Manual - Inspection and Condition Sheet

LOAD COMPRESSOR MODULE
60-49-25-00-00 ICS

DISTRIBUTION: 551

ENGINE S/N. _____ VADE NO: _____ CUSTOMER: _____

MODULE ORDER NO FV654 MODULE S/N: P-1166 MODULE: F

REASON FOR REMOVAL: _____

COMMENTS: _____

DISPOSITION CODES:		
	E =	PART MEETS DETAIL PART EID REQUIREMENTS (ZERO TIME SINCE DETAIL PART INSPECTION)
	A =	EXPOSED AREA OF PART MEETS VISUAL REQUIREMENTS OF APPROPRIATE EID (CONTINUED TIME SINCE DETAIL PARTS INSPECTION)
	C =	PART ROUTED OR CORRECTIVE ACTION TAKEN
	ATA# S/L-SEQ	EID NUMBER [49 precedes numbers shown (49) 31 -XX] SECTION / LIST - SEQUENCE NUMBER
	OFF LOG FUNC#	STAMP TO INDICATE PART OFF-LOG FROM MODULE FUNCTION NUMBER

NOTE . Sign off appropriate disposition code. More than one code may be signed

NOTE : Indicate condition of unserviceable parts regardless of disposition.

NOTE : To clear parts not exposed, draw a line through the complete entry and stamp in the left margin.

NOTE : If part is routed on an R&R Tag, it is mandatory to stamp the applicable "E" or "A" Block and write "R&R" in the "C" Block Then complete the appropriate computer transaction

NOTE : Parts having no specific EID will be visually inspected per 60-49-00-00 Book "0", Introduction, Section 4, A4.

Module Inspection Guide:

I _____ (1) Module inspected and found serviceable per EID 60-49-25-00-00 [ZERO Time Since Module Inspection (TSMI)] No parts removed from module. No additional sign-off required

I I366 (2) Module partially or completely disassembled Removed parts and / or exposed areas inspected per appropriate EID (ZERO Time Since Detail Parts Inspection - TSDPI).

Control Date: 20070329

ENGINE S/N: _____ ORDER NO: FV654

E	A	C	ITEM NOMENCLATURE	ATA # S/L SEQ	OFFLOG FUNC #	ROUTING / CONDITION
		I366	BEARING, THRUST	20-01-01		Rework
				18-195	5760	
		I366	BEARING, ROLLER	20-01-01		worked
				18-320	5746	
		I366	CARBON SEAL ASSY 2 EA	20-02-00	XXX	worked
				18-275	14367	
		I366	ROTOR, CARBON SEAL 2 EA	22-22-00	XXX	reworK
				18-280	5747	
I366			RETAINER, BEARING	22-02-00	XXX	
				18-070	2276	
		I366	ASSEMBLY, IGV	25-02-00		Ings
				25-000	0988 I	
		I366	HOUSING, BEARING	25-03-00	XXX	Airseal worn
				18-190	0992	
I366			COUPLING & SEAL	25-04-00	XXX	
				18-160	2251	
I366			SOUND ATTENUATOR	25-05-00	XXX	
				18-095	2275	
I366			INSULATOR SHIELD	25-07-01	XXX	
				18-015	1227	
I366			BACKSHROUD ASSY	25-08-00	XXX	
				18-010	5680	
		I366	SCROLL HOUSING	25-09-00	XXX	Volute rub
				18-060	2243	
		I366	BELLCRANK	25-10-00	XXX	cut 303523
				18-120	2239	
		I366	MOUNT, IGV ACTUATOR	25-11-00	XXX	cut 303833
				18-130	2274	
		I366	DIFFUSER	25-13-00	XXX	Vane FOD
				18-050	0990	
I366			HOUSING, INLET	25-15-00	XXX	
				18-100	2272	
		I366	IMPELLER	25-19-00		Broken blades
				18-150	0989	
I366			SHAFT	25-20-00	XXX	
				18-200	0991	

ENGINE S/N _____ ORDER NO: FV654

E	A	C	ITEM NOMENCLATURE	ATA # / S/L SEQ	OFFLOG / FUNC #	ROUTING / CONDITION
		I366	CARRIER, SEAL	25-21-00	XXX	Airseal worn
				18-220	2247	
I366			CARRIER, SEAL	25-22-00	XXX	
				18-210	2248	
I366			SEAL ROTOR	25-23-00	XXX	
				18-170	5687	
I366			CARRIER, BEARING	25-32-00	XXX	
				18-040	2271	
I366			COVER, ACTUATOR MOUNT	25-38-00	XXX	
				50-150	5754	
I366			BRACKET, IGV ACTUATOR	25-39-00	XXX	
				50-160	5755	

I I366 (3)Check Inspection and Condition Sheet for completion.

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001403018Y14 5003719741-1453666-6

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9452378620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	BEARING BALL ANLR	3613827-1	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

REFERENCE MANUFACTURER SERIAL NUMBER 09-151725-08639

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Mark Fields	**SEP 20 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/Installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1. Approving National Aviation Authority/Country:	2.	3 Form Tracking Number
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	000076397

4 Organization Name and Address	5. Work Order/Contract/Invoice Number
HONEYWELL INTERNATIONAL INC 111 SOUTH 34th STREET PHOENIX AZ 85072 B/E AEROSPACE CONSUMABLES MANAGEMENT 10000 NW 15 TERRACE MIAMI, FL 33172 PRODUCTION APPROVAL PT1222NM	7H1224 001 Page 2 of 3

6. Item.	7. Description:	8. Part Number:	9. Eligibility. *	10. Quantity:	11. Serial/Batch Number.	12 Status/Work.
001	BEARING	3822099-1	N/A		MS09-162370-17401 MS09-162370-17499 MS09-162370-17582 MS09-162370-17585 MS09-162370-17651 MS09-162370-17742 MS09-162370-17753 MS09-162370-17755	NEW

13. Remarks:

AIRWORTHINESS APPROVAL
DIRECT SHIPMENT AUTHORIZATION
Customer P O # 26504620019

This BEARING is a subcomponent of a TSO authorization

14. Certifies the items identified above were manufactured in conformity to:

- ☒ **Approved design data and are in a condition for safe operation.**
- ☐ **Non-approved design data specified in Block 13**

19. ☐ **14 CFR 43.9 Return to Service** ☐ **Other regulation specified in Block 13**

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature	21. Approval/Certificate No.:
Kerry Vogt	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y):**	**22. Name (Typed or Printed)**	**23 Date (m d y)**
Kerry Vogt	JUL 27 2010		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001408112Y14 5003719750-1464082-1

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PC413NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9450418620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	DIFFUSER DR CPRSR	3826282-1	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Florie McCrone	**ODA-602216-NM**		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Florie McCrone	**SEP 22 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001393076Y14 5003687890-1444380-1

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PC413NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9450058620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	ROTOR	3822057-3	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Cornel Bonchis	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Cornel Bonchis	**SEP 15 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/Installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001392472Y14 5003710358-1445618-1

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PC413NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9456688620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	ROTOR	3822057-3	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature.	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Dennis Strobehn	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Dennis Strobehn	**SEP 15 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001403005Y14 5003719750-1455162-2

4 Organization Name and Address	Production Approval		5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	PC413NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9450418620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	HOUSING ASSEMBLY, BEARING INLET, DRIVEN	3810187-2	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

☒ Approved design data and are in a condition for safe operation

☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Mark Fields	**SEP 20 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/Installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001418004Y14 5003738206-1464825-4

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9459828620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	CARRIER SEAL	3826125-1	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Dennis Strobehn	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Dennis Strobehn	**SEP 28 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country FAA/United States	2.	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number 307181731-002

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Honeywell International 1944 East Sky Harbor Circle Phoenix, AZ 85034 FAA Certificate # ZN3RO3OM	S9450058620

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
001	SCROLL HOUSING ASSEMBLY DRIVEN COMPRESSOR	3826140-5	N/A	1	N/A	Inspected

13 Remarks

Return to service Items provided by the customer have been serviced in accordance with 49-23-49, Rev 33, dated 6/30/2010

UAL 60-49-20-00/AR03
INSPECTION OF 3826140-5 IN OVERHAULED CONDITION REF, FORM 8130 TRACKING NUMBER 306903806
DATED SEP/13/2010

FOR EASA CUSTOMERS ONLY THIS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12 AND 13 WAS CARRIED OUT INACCORDANCE WITH EASA 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVED CERTIFICATE NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19 ☒ 14 CFR 43 9 Return tot Service ☒ Other Regulation Specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature 22	21 Approval/Certificate No ZN3R030M
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed) MARIO GASCA	23 Date (m/d/y) September 15, 2010

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1 Statements in blocks 14 and 19 do not constitute installation certification In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the used/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001388503Y15 306903806

4 Organization Name and Address		5 Work Order/Contract/Invoice Number
Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	Repair Station ZN3R030M	N/A 306856814 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	SCROLL HOUSING ASSEMBLY, DRIVEN COMPRESS	3826140-5	N/A	1	N/A	OVERHAULED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH
IRM 49-23-49 Rev 33, JUN/30/2010
ORI P31583 Rev A, SEP/11/2008
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to		19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature Brian Baker (13)	21 Approval/Certificate No **ZN3R030M**
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed) **Brian Baker**	23 Date (m d y) **SEP 13 2010**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/Installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

WORK CENTER: 551

SERIAL NBR	ET	MT	NAME	PWR RTG	CUST
60221		V	APU331	200E	UA

ORDER NUMBER
V654

COAS FOR MODULE TYPE F - SERIAL NUMBER P-1188 MODULE NAME: DRIVEN COMP SE WORK CENTER: 551

COA NUMBER	COA CAT	MODULE/ FUNC NBR	UNIT SERIAL	UNIT COA STATUS	ISS	COMP	COA TITLE	COMPLETION DATE
5-9089	4	00000	UAD0481274	COMPLETED			757/767 GTCP331 APU IGV BUSHNG-UPGRADE	10/01/09

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, IGV ASSEMBLY

REV. 4/26/07

IV654	60221	V6005.0
ORDER NO	ENGINE NO	JOB NO

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

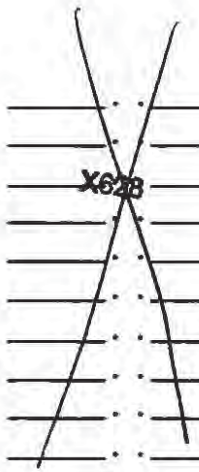
NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT

X628

	V0002.0	- NON-ROUTINE ACCOUNTABILITY
X628 X628	V6015.0	IGV ASSEMBLY-DISASSEMBLE
X628 X628	V6025.0	IGV ASSEMBLY - CLEANING
X628 X628	V6045.0	IGV ASSEMBLY-ASSEMBLE

NOTE - INCLUDE 60-49-25-02-00 ICS - VARIABLE INLET GUIDE VANE MODULE WITH LOG PACKAGE.



10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, IGV ASSEMBLY

REV. 4/26/07

IV654	60221	V6005.0
ORDER NO	ENGINE NO	JOB NO

X628

#2 NO COA'S X628

X628

X628

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

ASSEMBLY S/N: NONE X628

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

SIGNATURE: X628 DATE: 10/6/10

END JOB V6005.0 REVISED 4/26/07

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 IGV ASSEMBLY-DISASSEMBLE

REV. 1/19/01

IV654	60221	V6015.0
ORDER NO	ENGINE NO	JOB NO.

M 7239 1. REMOVE CLEVIS FROM GEARSHAFT.

M 7239 2. REMOVE COVER, WASHERS, RING GEAR ASSEMBLY AND REMOVE GEARSHAFT, SPRING WASHER AND WASHER.

M 7239 3. REMOVE WASHERS, SPRING WASHERS AND (27) GEAR SECTORS. REMOVE BEARINGS, INLET GUIDE VANES, PINS AND BAFFLES. REMOVE AND DISCARD PACKING.

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 IGV ASSEMBLY-DISASSEMBLE

REV. 1/19/01

IV654	60221	V6015.0
ORDER NO.	ENGINE NO.	JOB NO

END JOB V6015.0 REVISED 1/19/01

L962L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 IGV ASSEMBLY - CLEANING

REV. 1/19/01

IV654	60221	V6025.0
ORDER NO	ENGINE NO.	JOB NO.

1. U U012 UTILITY MECHANIC (U) OLEUM WASH IGV ASSEMBLY PARTS PER GN 4-0-3-20 PROCESS 01.

371TL

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 IGV ASSEMBLY - CLEANING

REV. 1/19/01

IV654	60221	V6025.0
ORDER NO.	ENGINE NO	JOB NO.

END JOB V6025.0 REVISED 1/19/01

371TL

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 IGV ASSEMBLY-ASSEMBLE

REV. 1/19/01

IV654	60221	V6045.0
ORDER NO	ENGINE NO	JOB NO

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-25-02/SP01.

M 7066 1. INSTALL IGV INLET VANES.

M 7066 2. INSTALL IGV BEARINGS.

M 7066 3. CHECK FOR PREVIOUS ACCOMPLISHMENT AND CIRCLE A OR B BELOW.

A. RING GEAR AND/OR SECTOR GEARS HAVE DRY FILM LUBRICANT APPLIED. NO FURTHER ACTION REQUIRED.

B. DRY FILM LUBRICANT IS MISSING. PROCEED AS FOLLOWS: CLEAN RING GEAR AND/OR SECTOR GEARS WITH SOL3000-5-1. APPLY LUB4500-1SC AND AIR DRY FOR 30 MINUTES.

M 7066 4. INSTALL IGV ASSEMBLY ON PLYWOOD STORAGE PLATE.

M 7066 5. INSTALL IGV RING GEAR.

M 7066 6. INSTALL IGV GEARSHAFT AND IGV SECTOR GEARS.

M 7066 7. INSTALL COVER ASSEMBLY.

M 7066 8. INSTALL CLEVIS.

1962 LM 7066 9. VERIFY FREE AND SMOOTH IGV ACTUATION.

RECORD ACTUATION FORCE 4 lbs.

----- CONTINUOUS AIRWORTHINESS ITEM -----IGV SYSTEM INSTALLATION - CHECK RIGGING OF IGV ASSEMBLY ITEMS 5-8

M 7066 10. STORE IGV ASSEMBLY IN A CLEAN PLASTIC BAG.

1962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 IGV ASSEMBLY-ASSEMBLE

REV. 1/19/01

IV654	60221	V6045.0
ORDER NO	ENGINE NO	JOB NO.

END JOB V6045.0 REVISED 1/19/01

551

Page 2 of 2

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

UNITED AIRLINES

GTCP331-200ER APU Engine Manual - Inspection and Condition Sheet

VARIABLE INLET GUIDE VANE (IGV) MODULE

60-49-25-02-00 ICS

DISTRIBUTION: 551

ENGINE S/N: _____ VADE NO: _____ CUSTOMER: _____

MODULE ORDER NO: 1V654 MODULE S/N: AA00491274 MODULE: I

REASON FOR REMOVAL _____

COMMENTS: _____

DISPOSITION CODES:	E =	PART MEETS DETAIL PART EID REQUIREMENTS (ZERO TIME SINCE DETAIL PART INSPECTION)
	A =	EXPOSED AREA OF PART MEETS VISUAL REQUIREMENTS OF APPROPRIATE EID (CONTINUED TIME SINCE DETAIL PARTS INSPECTION)
	C =	PART ROUTED OR CORRECTIVE ACTION TAKEN
	ATA# S/L-SEQ	EID NUMBER [49 precedes numbers shown (49) 31 -XX] SECTION / LIST - SEQUENCE NUMBER
	OFF LOG FUNC#	STAMP TO INDICATE PART OFF-LOG FROM MODULE FUNCTION NUMBER

NOTE : Sign off appropriate disposition code. More than one code may be signed.

NOTE : Indicate condition of unserviceable parts regardless of disposition.

NOTE : To clear parts not exposed, draw a line through the complete entry and stamp in the left margin.

NOTE . If part is routed on an R&R Tag, it is mandatory to stamp the applicable "E" or "A" Block and write "R&R" in the "C" Block. Then complete the appropriate computer transaction.

NOTE : Parts having no specific EID will be visually inspected per 60-49-00-00 Book "0", Introduction, Section 4, A4.

Module Inspection Guide:

I _____ (1) Module inspected and found serviceable per EID 60-49-25-02-00 [ZERO Time Since Module Inspection (TSMI)] No parts removed from module. No additional sign-off required.

I 1366 (2) Module partially or completely disassembled Removed parts and / or exposed areas inspected per appropriate EID (ZERO Time Since Detail Parts Inspection - TSDPI).

Control Date: 20070329

GTCP331-200ER APU Engine Manual - Inspection and Condition Sheet
VARIABLE INLET GUIDE VANE (IGV) MODULE

ENGINE S/N: _____ ORDER NO: 16654

E	A	C	ITEM NOMENCLATURE	ATA # S/L SEQ	OFFLOG FUNC #	ROUTING / CONDITION
		I366	HOUSING, IGV	25-02-01	XXX	Cat 303525
				25-010	2245	
I366			COVER, IGV	25-02-02	XXX	
				25-020	2244	
I366			RING GEAR	25-02-03	XXX	
				25-130	2273	
I366		I366	GEAR, SECTOR 27 EA	25-02-04	XXX	Torn tooth damage
				25-110	5704	
I366			GEARSHAFT, IGV	25-02-05	XXX	
				25-190	5709	
I366			VANE, INLET 23 EA	25-02-06	XXX	
				25-030	9102	
I366			VANE, MASTER	25-02-06	XXX	
				25-040	9103	
I366			VANE, SLOTTED 2 EA	25-02-06	XXX	
				25-070	9104	
I366			VANE, NOTCHED 2 EA	25-02-06	XXX	
				25-080	2282	
I366			BAFFLE, 2 EA	25-02-06	XXX	
				25-090	5703	
I366			PIN, 2EA	25-02-06	XXX	
				IPC	5701	

I I366 (3)Check Inspection and Condition Sheet for completion.

1 Approving National Aviation Authority/Country	2.	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001406563Y14 5003719746-1456583-1

4 Organization Name and Address.	Production Approval		5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	PC413NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9450428620 Page 1 of 1

6 Item	7 Description	8 Part Number	9. Eligibility.*	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	GEAR SPUR	3810119-2	N/A	7	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14. Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15. Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Dennis Strobehn	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Dennis Strobehn	**SEP 22 2010**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

0

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE ENGINE - BALANCE

REV. 4/1/96

X628 NU65F 61590

~~V000~~	~~00000~~	V8000.0
ORDER NO	ENGINE NO	JOB NO

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT

X628	X628	V2101.0	IMPELLER - 1ST STAGE COMPRESSOR
X628	X628	V2102.0	IMPELLER - 2ND STAGE COMPRESSOR
X628	X628	V2103.0	WHEEL ASSEMBLY-1ST STAGE TURBINE
X628	X628	V2104.0	WHEEL ASSEMBLY-2ND STAGE TURBINE
		V2105.0	WHEEL ASSEMBLY-3RD STAGE TURBINE
		V2106.0	COUPLING - CURVIC
		V3101.0	GEAR - MATCHED SET - SPUR
		V3102.0	ROTOR - COOLING FAN-SHROUDED-BALANCE
		V6101.0	IMPELLER - LOAD COMPRESSOR

X628

0

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

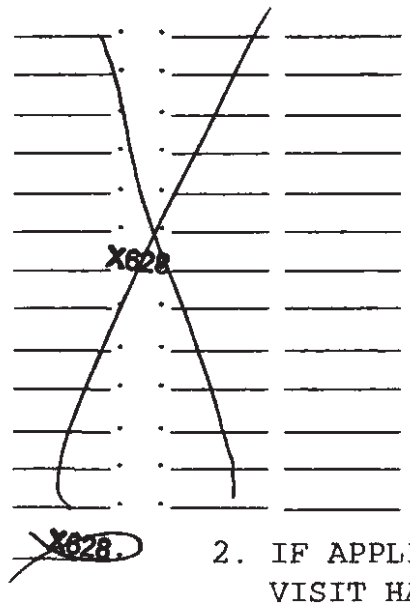
Job Instruction Card

331-200 COVER PAGE ENGINE - BALANCE

REV. 4/1/96

X628 N456 61590

~~V000~~	~~00000~~	V8000.0
ORDER NO	ENGINE NO	JOB NO



2 NO COA'S X628

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

SIGNATURE: X628 DATE: 10/22/10

END JOB V8000.0 REVISED 4/1/96

0

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

No Blending was Needed

Job Instruction Card

331-200 IMPELLER - 1ST STAGE COMPRESSOR

REV. 5/23/94

X628 NV256 6/15/0

~~NV000~~	~~00000~~	V2101.0
ORDER NO	ENGINE NO	JOB NO

7799 M____ 1. BALANCE PER SHOP PROCEDURE 49-22-10/SP01. DATE 8/31/10

FINAL UNBALANCE - GRAMS OR OZ-INCH — ANGLE

H PLANE - 0695 — 229°

J PLANE - 0106 — 245°

NOTE - LIST P/N AND S/N BELOW.

1ST STAGE IMPELLER P/N 3822067-2

1ST STAGE IMPELLER S/N 9-501-2130

7796 M X 2. BLEND PER SHOP PROCEDURE 49-22-10/SP01.

8962 L 3. LEAD VERIFY BLENDING PER 49-22-10/SP01.

8962 L 4. LEAD FINAL CHECK.

NOTE - PUT THIS BALANCE JIC WITH PART IN CONTAINER AFTER COMPLETION. THIS JIC MUST BE ACCOUNTED FOR AND TURNED IN TO PRODUCTION CONTROL CENTER WHEN PART IS ON-LOGGED.

END JOB V2101.0 REVISED 5/23/94

8962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

551

ENGINE MAINTENANCE DEPARTMENT

UNITED

UNITED AIRLINES — SFOFB

SAN FRANCISCO, CA

APU BALANCE MACHINE (EAST)

operator : dav7799 08.31.10 08:24 AM

index balancing

run 1

file name : 331 C-1 IMP.
rotor : 9-501-2130
bal. speed: 1544. O/min

plane 1	plane 2
6.95 moz	1.06 moz
at 229 deg	at 245 deg
in tol	in tol

index comp. AT E2

0

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 IMPELLER - 2ND STAGE COMPRESSOR

REV. 2/1/01 7799

X628 NV656 61590

~~NV000~~	~~00000~~	V2102.0
ORDER NO	ENGINE NO	JOB NO

M____ 1. BALANCE PER SHOP PROCEDURE 49-22-13/SP01.

DATE 8/31/10

FINAL UNBALANCE - GRAMS OR OZ-INCH — ANGLE

J PLANE - .0624 — 266°

H PLANE - .0948 — 8°

NOTE - LIST P/N AND S/N BELOW.

2ND STAGE IMPELLER P/N 3822068-1

2ND STAGE IMPELLER S/N 0-3531-896

M 7799 2. BLEND PER SHOP PROCEDURE 49-22-13/SP01.

L962 L 3. LEAD VERIFY BLENDING PER 49-22-13/SP01.

L962 L 4. LEAD FINAL CHECK.

NOTE - PUT THIS BALANCE JIC WITH PART IN CONTAINER AFTER COMPLETION. THIS JIC MUST BE ACCOUNTED FOR AND TURNED IN TO PRODUCTION CONTROL CENTER WHEN PART IS ON-LOGGED.

END JOB V2102.0 REVISED 2/1/01

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

UNITED AIRLINES — SF OPS

SAN FRANCISCO, CA

AFU BALANCE MACHINE (EAST)

operator : dav 7799 08.31.10 07:26 AM

index balancing

file name : 331 C-2 IMP.
rotor : 0-3501-896
bal. speed: 1537. U/mm

run 3

plane 1	plane 2
6.24 moz	9.48 moz
at 266 deg	at 8 deg
in tol	in tol

index comp. AT EC

0

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 WHEEL ASSEMBLY-1ST STAGE TURBINE

REV. 12/7/95

X628 NV656 21590

~~NV000~~	~~00000~~	V2103.0
ORDER NO	ENGINE NO	JOB NO

M 7799 1. INSTALL BLADES AND TABLOCKS PER SHOP PROCEDURE 49-24-03/SP00.

M 7799 2. BALANCE PER SHOP PROCEDURE 49-24-03/SP01.

DATE 10/5/10

FINAL UNBALANCE - GRAMS OR OZ-INCH: ANGLE

A PLANE - .0133 168

NOTE - LIST P/N AND S/N BELOW.

1ST STAGE DISK P/N 3840019-1

1ST STAGE DISK S/N 0235702427

BLADE SET P/N 3840004-5

7799 L962 L 3. ----- CONTINUOUS AIRWORTHINESS ITEM -----T1 TURBINE BLADE INSTALLATION - CHECK TABLOCK INSTALLATION PER SHOP PROCEDURE 49-24-03/SP00.

No blending was Needed

M X 7799 4. BLEND PER SHOP PROCEDURE 49-24-03/SP01.

L962 L 5. LEAD VERIFY BLENDING OF DISK PER 49-24-03/SP01.

L962 L 6. LEAD FINAL CHECK.

NOTE - PUT THIS BALANCE JIC WITH PART IN CONTAINER AFTER COMPLETION. THIS JIC MUST BE ACCOUNTED FOR AND TURNED IN TO PRODUCTION CONTROL CENTER WHEN PART IS ON-LOGGED.

551

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

0

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 WHEEL ASSEMBLY-1ST STAGE TURBINE

REV. 12/7/95

NV000	00000	V2103.0
ORDER NO	ENGINE NO.	JOB NO.

END JOB V2103.0 REVISED 12/7/95

ALL ITEMS ARE PROPERLY SIGNED OFF.

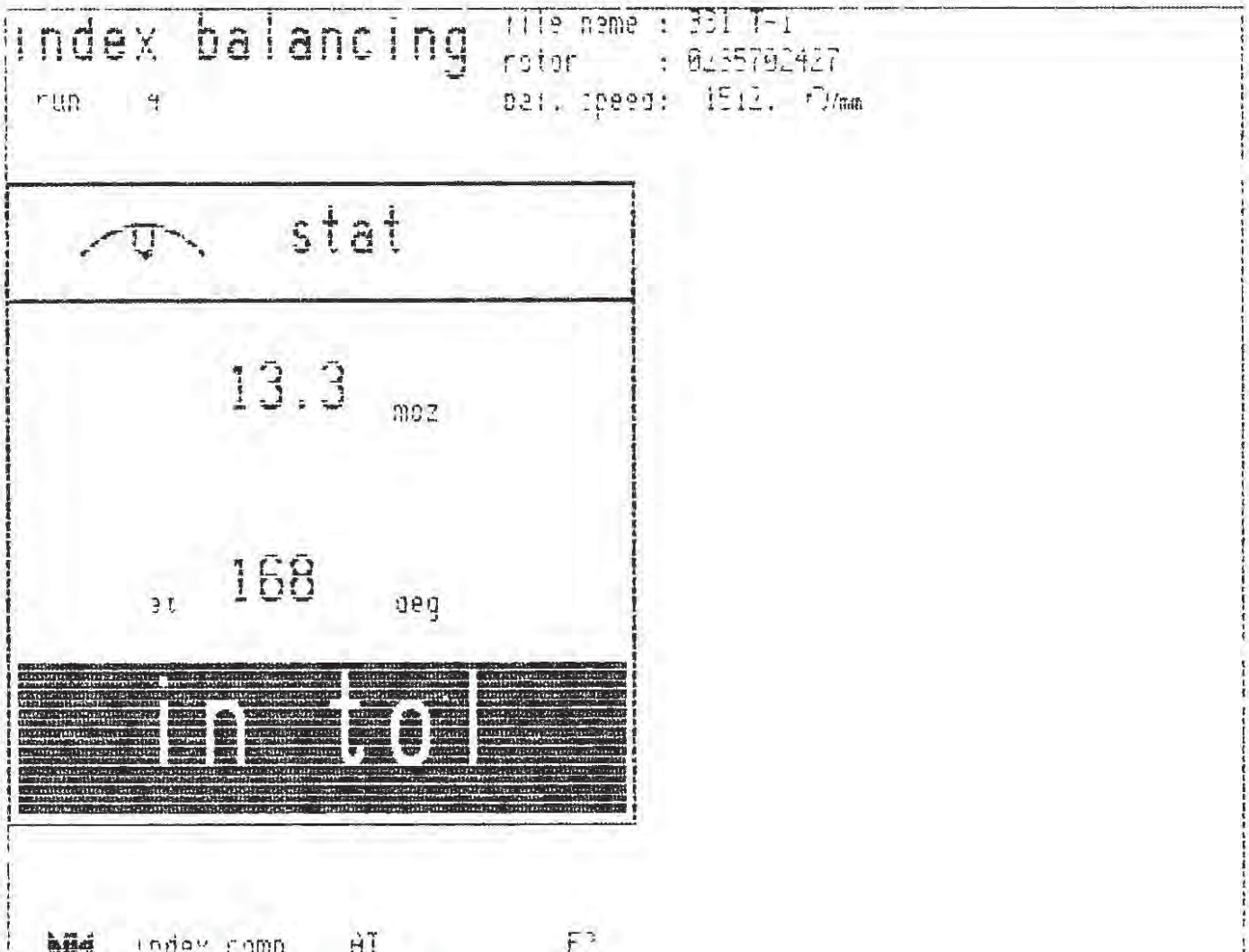
ENGINE MAINTENANCE DEPARTMENT

UNITED

SPEED BARLEND

GAS TURBINE, CO

operator : 06



1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001388908Y14 5003684186-1440063-1

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		S9451068620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	BLADE TURBINE ROTOR, FIRST STAGE	3840004-5	N/A	36	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
	ODA-602216-NM		
17 Name (Typed or Printed) **Mark Fields**	18 Date (m d y) **SEP 13 2010**	22 Name (Typed or Printed)	23 Date (m d y)

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

0

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 WHEEL ASSEMBLY-2ND STAGE TURBINE

REV. 12/7/95

X628 NV656 61550

~~NV000~~	~~00000~~	V2104.0
ORDER NO.	ENGINE NO.	JOB NO.

M 779 1. INSTALL BLADES AND TABLOCKS PER SHOP PROCEDURE 49-24-03/SP00.

M 7799 2. BALANCE PER SHOP PROCEDURE 49-24-07/SP01 DATE 9/20/10

FINAL UNBALANCE - GRAMS OR OZ-INCH ANGLE

A PLANE - .0175 289°

NOTE - LIST P/N AND S/N BELOW.

2ND STAGE DISK P/N 3840007-1

2ND STAGE DISK S/N 0350101634

BLADE SET P/N 3840008-2

L962 L 3. ----- CONTINUOUS AIRWORTHINESS ITEM -----T2 TURBINE BLADE INSTALLATION - CHECK TABLOCK INSTALLATION PER SHOP PROCEDURE 49-24-03/SP00.

No blending was Needed 7799

M X 7799 4. BLEND PER SHOP PROCEDURE 49-24-07/SP01.

L962 L 5. LEAD VERIFY BLENDING OF DISK PER 49-24-07/SP01.

L962 L 6. LEAD FINAL CHECK.

NOTE - PUT THIS BALANCE JIC WITH PART IN CONTAINER AFTER COMPLETION. THIS JIC MUST BE ACCOUNTED FOR AND TURNED IN TO PRODUCTION CONTROL CENTER WHEN PART IS ON-LOGGED.

END JOB V2104.0 REVISED 12/7/95

551

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

UNITED

7789

index balancing

rotor : 03501015S4

stat

17.5 m²

289 pag

in tol

1 Approving National Aviation Authority/Country	2.	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890001382483Y14 5003684186-1444813-1

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PC413NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9451068620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	BLADE, TURBINE ROTOR SECOND STAGE	3840008-2	N/A	40	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

☒ Approved design data and are in a condition for safe operation

☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15. Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
	ODA-602216-NM		
17 Name (Typed or Printed) **Adrian Jacquez**	18 Date (m d y) **SEP 11 2010**	22 Name (Typed or Printed)	23 Date (m d y)

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross check eligibility with applicable technical data

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, ENGINE TEST

REV. 4/26/07

V665	62697	V0103.0
ORDER NO	ENGINE NO	JOB NO

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT

TX050	V0002.0	- NON-ROUTINE ACCOUNTABILITY
X628	V0200.0	- ON-LOG INSPECTION
TX050 TX050	V1522.0	APU RELEASE FORM
	V0103.5	DIAGNOSTIC RUN AND SERV. BEFORE TEST
TX050 TX050	V0104.0	SERVICE BEFORE TEST
TX050 TX050	V0105.1	ENGINE - TEST / RUN SHEET
TX050	V0105.2	PRESERVATION (ENGINE TEST) PART 1
TX050 TX050	V0106.0	SERVICE AFTER TEST
TX050	V0106.1	PRESERVATION (SAT) PART 2
TX050 TX050	V0106.5	SERVICE AFTER TEST LEAD CHECK
TX050	V0106.6	SERVICE AFTER TEST LEAD RECHECK
TX050 TX050	V0106.7	TEST CELL REPAIRS
TX050 TX050	V0110.0	APU ENGINE SHIPPING
TX050		

4

Job Instruction Card

331-200 COVER PAGE, ENGINE TEST

REV. 4/26/07

V665	62697	V0103.0
ORDER NO	ENGINE NO	JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

#2 NO COAS TX050

TX050

TX050

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

SIGNATURE: TX050 DATE: 11/4/10

END JOB V0103.0 REVISED 4/26/07

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 APU RELEASE FORM

REV. 10/26/09

V665	62697	V1522.0
ORDER NO	ENGINE NO	JOB NO

I193A I

1. REVIEW "ENGWRK" DISPLAY IN UNIMATIC TO ENSURE ALL ASSIGNED "ELR'S" ARE CLEARED AND ARE RECORDED IN APU AMIS FILE.

I193A I

2. ACCOMPLISH COMPUTER ENGINE FINAL RECORD CHECK TRANSACTION "ENGFRC".
INITIATE AND COMPLETE INSPECTION PORTION OF SERVICEABLE TAG.

L962 L

3. REPAIR AREA REVIEW DECISIONS HAVE BEEN ACCOMPLISHED.
ENGINE IS READY FOR TEST.

X628

4. ALL JOB CARD AND NON-ROUTINE DOCUMENTATION IS CLEARED AND ACCOUNTED FOR.
FORWARD LOG PACKAGE TO ENGINE RECORDS.

L962 L

5. AFTER TEST RUN INFORMATION:
FINAL RUN IS GOOD, YES L962 NO_____ IF 'NO', LIST CAUSE OF REJECT. _____

6. FOREMAN OR DESIGNEE SIGNATURE VERIFIES THAT ENGINE IS SERVICEABLE, THERE ARE NO RESTRICTIONS AND ALL DEVIATIONS ARE CLOSED.

FOREMAN
OR DESIGNEE _____ DATE 11-5-10

551

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 APU RELEASE FORM

REV. 10/26/09

V665	62697	V1522.0
ORDER NO	ENGINE NO.	JOB NO.

END JOB V1522.0 REVISED 10/26/09

8962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 SERVICE BEFORE TEST

REV. 7/7/05

V665	62697	V0104.0
ORDER NO	ENGINE NO	JOB NO

NOTE - SET TORQUE WRENCH TO THE TORQUE VALUE SPECIFIED. IF NO TORQUE VALUE IS SPECIFIED, USE STANDARD TORQUE PER GN-8-0-2-14.

CAUTION - SCRAP ANY SELF LOCKING NUT WHICH CAN BE TURNED PAST ITS LOCKING FEATURE BY HAND.

-----PREPARE FOR TEST-----

M 7239 1. INSTALL REAR ENGINE MOUNTS. TORQUE TO 80-100 IN. LBS. AND SAFETY WIRE (.032 WIRE).

M 7239 2. INSTALL FUEL INLET QUICK DISCONNECT FITTING.

M 7239 3. INSTALL FUEL PRESSURE TEST TEE FITTING & ADAPTER TUBE.

M 7239 4. INSTALL REDUCER AND OIL TEMPERATURE BULB IN GEARBOX.

M 7780 5. INSTALL MAIN ELECTRICAL HARNESS ADAPTER.

M 7239 6. INSTALL PS3 TEST TUBE. HANG PCD2 TUBE IN CONVIENT LOCATION TO BE INSTALLED DURING SERVICE AFTER TEST.

M 7780 7. CONNECT STARTER HARNESS LEADS TO STARTER TERMINALS.
HOLD BOTTOM NUT WITH WRENCH, TORQUE POSITIVE TOP NUT 80 LB. IN.
HOLD BOTTOM NUT WITH WRENCH, TORQUE NEGATIVE TOP NUT 50 LB. IN.

M 7780 8. INSTALL TEST CELL EXAHUST PIPE, TORQUE CLAMP.

M 7780 9. REMOVE ALL SURPLUS PARTS FROM STALL SHELVES AND ROUTE TO PROPER DESTINATION.

M 7780 10. CLEAN ALL STALL SHELVES.

L962 L 11. VERIFY AND CLEAR ALL "ELR'S" BY REVIEWING "ENGWRK" DISPLAY IN UNIMATIC APU AMIS FILE.

551

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 SERVICE BEFORE TEST

REV. 7/7/05

V665	62697	V0104.0
ORDER NO.	ENGINE NO.	JOB NO

L962 L

12. LEAD CHECK - GENERAL SECURITY CHECK - PRIOR TO TEST. WRENCH CHECK.

END JOB V0104.0 REVISED 7/7/05

L962 L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ENGINE - TEST / RUN SHEET

REV. 7/7/10

V665	62697	V0105.1
ORDER NO	ENGINE NO	JOB NO

DATE OF TEST RUN 11/1/2010 TEST CELL # 1

M 7780 1. INDICATE TYPE OF RUN. STAMP A, B, C, D OR E BELOW:

_____ A. DIAGNOSTIC RUN

7780 B. REPAIR RUN POWER SECTION REFURBISHMENT

_____ C. REPAIR RUN NO POWER SECTION REFURBISHMENT

_____ D. IDLE LEAK CHECK

_____ E. OIL CONSUMPTION

M 7780 2. INSTALL Tt7 INTERFACE JUMPER #1 AT THERMOCOUPLE BOX.

M 7780 3. INSTALL INLET TEMPERATURE FRAME.

M 7780 4. CHECK AND SERVICE OIL QUANTITY PRIOR TO ENGINE TEST. DUPLICATE SIGNOFF V0101.2

M 7780 5. INSTALL AND/OR CONFIRM ENGINE IS SECURED IN A RUN STAND.

M 7780 6. INSTALL VIBRATION EQUIPMENT.

M 7780 7. SECURE ENGINE IN TEST CELL PER ENGINE MANUAL TESTING SECTION 49-20-00.

M 7780 8. CHECK ENGINE AND CELL FOR CLEANLINESS AND SECURITY BEFORE ATTEMPTING ENGINE START. CHECK INLET AND EXHAUST FOR FOREIGN MATERIAL.

NOTE - TEST CELL OPERATOR HAS THE OPTION OF RUNNING THE APU IN MANUAL OR AUTO MODE.

M 7780 9. ACCOMPLISH ALTITUDE SIMULATION BLANKING PLATE PERFORMANCE TEST.

M 7780 10. PERFORM TEST OPERATIONS PER ENGINE MANUAL TESTING SECTION 49-20-00.

DID COOLING FAN VIBRATION EXCEED 1.0 IPS?

_____ A. IF YES, REMOVE GENERATOR, INSTALL COVER PLATE AND REPEAT TEST. IF VIBRATION FALLS BELOW .6 IPS, REPLACE THE GENERATOR. IF VIBRATION IS HIGHER THAN .6 IPS, REPLACE THE COOLING FAN AND REPEAT TEST.

7780

_____ B. IF NO, CONTINUE WITH TEST

M 7780 11. ACCOMPLISH A COMPRESSOR STALL CHECK PER ENGINE MANUAL TESTING SECTION 49-20-00, TO DETERMINE PNEUMATIC STABILITY OF THE LOAD COMPRESSOR. RECORD DCF RECORD DCF ACCOMPLISHED.

DCF 78

M 7780 12. ACCOMPLISH FLOW SENSOR ADJUSTMENT PER ENGINE MANUAL TESTING SECTION 49-20-00. RECORD THE DCF THAT THE SURGE VALVE CRACKS IN DUCT PRESSURIZATION MODE.

DP CRACK DCF 88

M 7780 13. ACCOMPLISH MES CRACK POINT CHECK PER ENGINE MANUAL TESTING SECTION 49-20-00. RECORD DCF THAT THE SURGE CONTROL VALVE CRACKS IN MES MODE.

MES CRACK DCF 97

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ENGINE - TEST / RUN SHEET

REV. 7/7/10

V665	62697	V0105.1
ORDER NO	ENGINE NO	JOB NO

6962 LM 7780 14. ----- CONTINUOUS AIRWORTHINESS ITEM -----
CHECK FUEL MANIFOLD HOSE TO ATOMIZER FOR EVIDENCE OF LEAKING.

(7780) OK
(_____) NOT OK

NO EVIDENCE OF LEAKING ALLOWED.
LIST ALL REPAIRS ON JIC V0106.7.

M 7780 15. SMOKE CHECK - WITH ENGINE OPERATING AT NO-LOAD, CHECK EXHAUST STACK FOR SMOKE. IF EXCESSIVE BLACK SMOKE OR ANY WHITE SMOKE IS OBSERVED, CONTACT SFOEP PERFORMANCE.

M 7780 16. REMOVE FUEL TEST "T" FITTING AND RECONNECT FUEL LINE AND LEAK CHECK IT.

M 7780 17. NON ROUTINE CELL WORK REPLACED 6 EA FUEL NOZZLES

M 7780 18. CHECK OIL LEVEL AND SERVICE AS REQUIRED.

6962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ENGINE - TEST / RUN SHEET

REV. 7/7/10

V665	62697	V0105.1
ORDER NO.	ENGINE NO.	JOB NO

M 7780 19. PARTS CHANGED IN TEST CELL.

NOMENCLATURE	S/N OFF	S/N ON	REASON FOR REPLACEMENT
GEA FUEL NOZZLES			TRYING TO LOWER EGT SPREAD

L962 LM 7780 20. CHECK MAIN OIL SCREEN FOR FOREIGN MATERIAL.
"NO METAL ALLOWED"
SCREEN CONDITION OKAY. YES 7780 NO _____
IF YES, REPLACE FILTER.
IF NO, CONTACT FOREMAN FOR RE-REVIEW OF APU.

NOTE - TAG AND ROUTE ALL PARTS CHANGED TO HOME SHOP.

M 7780 21. REMOVE VIBRATION EQUIPMENT.

M 7780 22. REMOVE INLET TEMPERATURE FRAME.

M 7780 23. IF ENGINE IS TO BE PRESERVED, REQUEST JIC V0105.2 FROM SCHEDULE CENTER.

APU IS TO BE PRESERVED YES _____ NO 7780

_____ .M X 7780 24. CUSTOMER ENGINES ONLY: VIDEO BORESCOPE SERVICE AFTER TEST INSPECTION REQUIRED. REQUEST FROM SCHEDULE CENTER JIC V0108.0

551

L962 L _____ ALL ITEMS ARE PROPERLY SIGNED OFF.

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ENGINE - TEST / RUN SHEET

REV. 7/7/10

V665	62697	V0105.1
ORDER NO.	ENGINE NO	JOB NO

L962 L 25. VERIFY JIC V0108.0 IS COMPLETE.

M 7780 26. MAKE TWO COPIES OF TEST SUMMARY SHEET. ATTACH ONE COPY TO TEST J.I.C. AND PROVIDE THE OTHER COPY ALONG WITH TEST LOG PACKAGE TO ENGINEERING.

M 7780 27. FILL OUT PROBLEM SHEET, MAKE ONE COPY OF PROBLEM SHEET. ATTACH TO TEST J.I.C.

L962 LM 7780 28. TESTED OK 7780 NOT OK ____

TCR FOR _____ EVA REQUESTED _____

IF TCR, THE FOLLOWING MUST BE SIGNED OFF AND DATED.

SHOP FORMAN_____DATE_____

ENGINEER_____DATE_____

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ENGINE - TEST / RUN SHEET

REV. 7/7/10

V665	62697	V0105.1
ORDER NO	ENGINE NO	JOB NO.

END JOB V0105.1 REVISED 7/7/10

L962 L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 SERVICE AFTER TEST

REV. 9/15/09

V665	62697	V0106.0
ORDER NO	ENGINE NO	JOB NO

NOTE - SET TORQUE WRENCH TO THE TORQUE VALUE SPECIFIED. IF NO TORQUE VALUE IS SPECIFIED, USE STANDARD TORQUE PER GN-8-0-2-14.

CAUTION - SCRAP ANY SELF LOCKING NUT WHICH CAN BE TURNED PAST ITS LOCKING FEATURE BY HAND.

M 7393 1. REMOVE TESTCELL EXHAUST PIPE AND CLAMP.

M 7393 2. REMOVE TESTCELL STARTER HARNESS. TIGHTEN STARTER TERMINAL NUTS FINGER TIGHT.

M 7393 3. REMOVE GENERATOR HARNESS.

M 7393 4. REMOVE MAIN ELECTRICAL HARNESS ADAPTER.

M 7393 5. REMOVE PS3 TEST TUBE AND REINSTALL PCD2 TUBE.

M 7393 6. INSTALL GENERATOR TERMINAL COVER.

M 7393 7. REMOVE OIL TEMPERATURE BULB AND REDUCER FROM GEARBOX. INSTALL PLUG AND O-RING. TORQUE PLUG.

M 7393 8. REMOVE FUEL INLET QUICK DISCONNECT FITTING. INSTALL UNION AND O-RING. TORQUE UNION AND THEN CAP.

M 7393 9. INSTALL COVERS, CAPS, OR PLUGS ON ALL TEST EQUIPMENT.

~~L962~~ LM ~~7393~~ 10. CUSTOMER ONLY: VIDEO BORESCOPE REQUIRED, REQUEST JIC V0108.0 FROM SCHEDULE CENTER. PREPARE ENGINE FOR BORESCOPE ACCESS.

ITEM # 10. ENGINE IS NOT FOR CUSTOMER 7393

~~L962~~ I 11. CUSTOMER ONLY: VIDEO BORESCOPE LOAD COMPRESSOR IMPELLER LEADING EDGE AND TRAILING EDGE BLADES. C1 IMPELLER LEADING EDGE AND TRAILING EDGE BLADES. C1 VOLUTE AND LOAD COMPRESSOR VOLUTE. INSPECT PER EID 49-10-01 CRITERIA LIMITS. REQUEST JIC V0108.0 FROM SCHEDULE CENTER.

#11 NOT REQUIRED L962

551

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 SERVICE AFTER TEST

REV. 9/15/09

V665	62697	V0106.0
ORDER NO	ENGINE NO	JOB NO

M 7393 12. REINSTALL PARTS REMOVED FOR BORESCOPE ACCESS.

M 7393 13. PROVIDE ENGINE MOUNT NUTS AND WASHERS IN CLOTH BAG ATTACHED TO LEFT REAR ENGINE MOUNT.

M 7393 14. RE-TORQUE AFT SCAVENGE PUMP ASSEMBLY NUTS TO 90 LB. IN. INSTALL TAIL CONE, SPACER AND SCREWS AND TORQUE TO 50 LB. IN.

M 7393 15. CHECK GEARBOX VENT LINE AT TURBINE EXHAUST FOR OIL WETNESS. MAXIMUM OIL DRIPPINGS IS 150 DROPS OR 10CC TOTAL.

M 7393 16. CHECK OIL LEVEL AND SERVICE AS REQUIRED.

M 7393 17. DRAIN FUEL FROM FILTER BOWL AND REINSTALL FILTER BOWL.

M 7393 18. VERIFY DRAIN MAST FITTINGS ARE IN UPPER HOLES OF DRAIN MAST PER IPC. (REF. IPC 50/60/65-49-16-00-011).

50-49-16-00-011
60-49-16-00-011
65-49-16-00-011

-------CONTINUOUS AIRWORTHINESS ITEMS ----------

CHECK SAFETY.

L962 L 19. ROTATE ENGINE AND CHECK FOR UNUSUAL NOISES AND FOR FREEDOM OF ROTATION.

CAUTION - ROTATE ENGINE AFTER ENGINE HAS COOLED.

L962 L 20. CHECK SAFETY OF MAIN OIL SCREEN

M 7393 21. INSTALL EXXON 2389 PLACARD (265-2389) ON FORWARD SIDE OF OIL FILLER HOUSING. REMOVE OTHER OIL PLACARDS.

M7393 22. INSTALL COVERS, CAPS OR PLUGS ON ALL APU OPENINGS.

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

ITEM # 25. ENGINE IS NOT TO BE PRESERVED 7393

Job Instruction Card

331-200 SERVICE AFTER TEST

REV. 9/15/09

V665	62697	V0106.0
ORDER NO.	ENGINE NO	JOB NO

M 7393 23. CLAMP FUEL LINE TO BRACKET BETWEEN FUEL CONTROL & FLOW DIVIDER VALVE.

M 7393 24. PERFORM SECURITY AND SAFETY CHECK OF ENGINE.
CHECK ALL TUBE AND HOSE NUTS FOR SECURITY.
ASSURE THAT FUEL NOZZLES ARE SECURE AND SAFETIED.
CHECK ELECTRICAL CONNECTORS FOR SECURITY. SAFETY AS REQUIRED.

M 7393 25. IF ENGINE IS TO BE PRESERVED, REQUEST JIC V0106.1 FROM SCHEDULE CENTER.

M 7393 26. THIS UNIT HAS BEEN PREPARED FOR SHIPMENT IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF U.S. DOT 49 CFR HAZARDOUS MATERIALS TRANSPORTATION REGULATIONS AND THE ICAO/IATA DANGEROUS GOODS REGULATIONS.

L 9682 27. LEAD - FINAL CHECK OF ENGINE.
CHECK THAT SERVICEABLE TAG IS PRESENT IN PLASTIC ENVELOPE.
CHECK THAT V0108.0 IS COMPLETE.

L 9682 28. ACCOMPLISH "ENGVST" TRANSACTION IN UNIMATIC TO RECORD THE ENGINE VISIT WORK COMPLETION. RECORD IN "ENGWRK" DISPLAY ANY OTHER OPEN ITEMS TO BE ACCOMPLISHED DURING APU INSTALLATION.

L 9682 ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 SERVICE AFTER TEST

REV. 9/15/09

V665	62697	V0106.0
ORDER NO.	ENGINE NO.	JOB NO.

END JOB V0106.0 REVISED 9/15/09

L962 L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 SERVICE AFTER TEST LEAD CHECK

REV. 6/5/03

V665	62697	V0106.5
ORDER NO.	ENGINE NO.	JOB NO

NOTE - RECORD ALL DISCREPANCIES ON SERVICE AFTER TEST LEAD RECHECK JOB CARD V0106.6

L962 L — 1. VERIFY ALL REPAIRS TO BE ACCOMPLISHED DURING OR AFTER TEST HAVE BEEN PROPERLY COMPLETED.

L962 L — 2. CHECK FOR FREEDOM OF ROTATION AFTER ENGINE HAS COOLED. CHECK FOR UNUSUAL NOISES.

L962 L — 3. CHECK INLET AND EXHAUST FOR DEBRIS, F.O.D. OR OBVIOUS DAMAGE.

L962 ____ L — 4. CHECK GENERATOR, STARTER AND MAIN ELECTRICAL CONNECTORS FOR BENT, BURNED OR PUSHED BACK PINS OR SOCKETS.

L962 L — 5. CHECK THAT ALL CAPS AND PLUGS ARE INSTALLED, TIGHT AND, IF NECESSARY, SAFTIED.

L962 L — 6. CHECK THAT PROPER MANUFACTURER ENGINE IDENTIFICATION DATA PLATE IS INSTALLED ON LOWER INLET PLENUM AND INSPECTION PLATE INSTALLED AND SECURE.

L962 L — 7. CHECK THAT UA S/N I.D. PLATE IS INSTALLED BELOW GEARBOX. CHECK ALL MOUNTED ACCESSORIES FOR PROPER INSTALLATION.

L962 L — 8. CHECK THAT ENGINE MOUNT AND SHIPPING MOUNT BOLTS ARE INSTALLED AND TIGHTENED AFTER APU IS INSTALLED IN SHIPPING STAND.

L962 L — 9. CHECK THAT NEW ENGINE MOUNT NUTS AND WASHERS ARE PROVIDED IN CLOTH BAG ATTACHED TO LEFT AFT MOUNT.

L962 ____ L — 10. CHECK THAT ALL PROTECTIVE COVERS ARE INSTALLED ON INLET AND EXHAUST.

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 SERVICE AFTER TEST LEAD CHECK

REV. 6/5/03

V665	62697	V0106.5
ORDER NO	ENGINE NO	JOB NO

END JOB V0106.5 REVISED 6/5/03

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 TEST CELL REPAIRS

REV. 6/2/10

V665	62697	V0106.7
ORDER NO.	ENGINE NO	JOB NO

NOTE - USE THIS JIC TO RECORD ANY WORK NEEDS TO BE ACCOMPLISHED OTHER THAN THE TEST ITSELF.

NOTE - LEAD, SIGN-OFF IN LEFT HAND COLUMN.
MECHANIC, SIGN-OFF IN RIGHT HAND COLUMN.

NOTE - IF NO DISCREPANCIES FOUND, WRITE NONE.

DISCREPANCY OR ACTION

M 7780 SAFETY ALL FUEL NOZZLES (MOUNTING BOLTS) 7780

L962 LM 7393 SAFETIED ALL FUEL NOZZLES (MOUNTING BOLTS)

M 7780 SAFETY IGNITION LEADS 7780

L962 LM 7393 SAFETIED IGNITION LEAD.

M 7780 SAFETY FLOW SENSOR MODULE ADJUSTMENT BOLT & INSTALL COVER 7780

L962 LM 7393 SAFETIED FLOW SENSOR MODULE ADJUSTMENT BOLT & INSTALLED COVER

551

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 TEST CELL REPAIRS

REV. 6/2/10

V665	62697	V0106.7
ORDER NO	ENGINE NO	JOB NO.

END JOB V0106.7 REVISED 6/2/10

1982 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 APU ENGINE SHIPPING

REV. 11/22/85

V665	62697	V0110.0
ORDER NO	ENGINE NO	JOB NO.

M L962 1. ATTACH LIFTING SLING TO ENGINE AND REMOVE ENGINE FROM RUN OR BUILD STAND.

L962 L 2. CHECK ENGINE MOUNTS FOR SECURITY OF INSTALLATION ON ENGINE.

M L962 3. POSITION ENGINE IN SHIPPING STAND AND SECURE WITH SAFETY PINS ON ENGINE MOUNTS.

L962 L 4. CHECK ENGINE FOR SECURITY AND PROPER INSTALLATION IN SHIPPING STAND.

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

551

ENGINE MAINTENANCE DEPARTMENT

UNITED

4

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 APU ENGINE SHIPPING

REV. 11/22/85

V665	62697	V0110.0
ORDER NO	ENGINE NO	JOB NO

END JOB V0110.0 REVISED 11/22/85

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

UNITED AIRLINES ENGINE SIT AD VERIFICATION

AOP PA/-48-08-00-13

ENGINE TYPE GTCP331-200 ENGINE S/N 62697 ORDER NO. V665

AD NUMBER	TITLE	INSTRUCTIONS FOR APPLICABILITY	INSTRUCTIONS FOR VERIFICATION	SFO VER
NO ACTIVE AIRWORTHINESS DIRECTIVES (AD)				NA

This report applies to this engine visit only. For Engine AD status, see United Airlines AD Compliance Record.

Signature [signature] Date 10/28/10

KEY: C/W = complied with this visit
PCW = previously complied with
N/A = not applicable this visit
FCW = factory complied with

CONTI DAT

1/6/8

ENH652D0 * * * ENGINE MAINTENANCE SYSTEM * * * 11/05/10 10:50:30
UNTLTM * * * UNIT HARD LIMITS REPORT * * * PAGE: 1
* * * CURRENT POWER RATING * * *

ORDER NUMBER	ENGINE TYPE	MODULE TYPE	SERIAL NUMBER	CUSTOMER UA		TSN	14955	LOW NONE
V665	V		62697	CURRENT PWR RTG	200E	CSN	19404	LOW 08247
				MOUN APU331		DAYS REMAINING		NONE

TIMES/CYCLES CURRENT TO THIS MAINTENANCE

FUNC/MOD NAME	SERIAL NUMBER PART NUMBER	LIMIT VALUE	SERIAL ACCUMS	EVENTS	REMAINING VALUE
01009-001 FJ WHEEL ASSY	0234510215 3840022-4	025000	14584	CSN	10414
01007-001 DISK T2 TURBINE	0350101634 3840007-1	020000	08218	CSN	11782
01004-001 DISK T1 TURBINE	0235702427 3840019-1	020000	11653	CSN	08747

* * * END OF REPORT * * *

ENM647D0 ENGINE MAINTENANCE SYSTEM 11/05/10 10:57:55
ENGMOD ENGINE/MODULE SUMMARY REPORT PAGE: 1

ORDER NUMBER\	ENGINE TYPE\	MODULE TYPE\	SERIAL NUMBER\	NOUN	CUST-OMER	CURRENT POWER RTG	PRIOR ORDER
V665	V		62697	APU731	UA	200E	V607

PRINT: P ACTUALS: ACCUMS/SUBS: Y DIMENSIONS: COAS: LIMITS:

OFF FLEET 767 OFF AC NBR N656UA-APU DATE ON 021710 DATE OFF 090/10
SERVICEABLE STATUS S DATE-LAST-SERV 110510
COMMENTS

ACCUMULATIONS AND SUB-ASSEMBLIES

ACCUMS: 14955 TSN 19404 CSN

MT	MODULE NAME	SER NBR	ORDNO	OFF DATE	ON DATE	TSHM	TSMI
F	DRIVEN COMP SE	P-1166	V654	081010	102110		00000
N	POWER SECTION	P-1266	V656	091910	102110		00000
A	GEARBOX ASSMBLY	P209	V665	070209	120909		00000

* * * END OF REPORT * * *

ORDER NUMBER\	ENGINE TYPE\	MODULE TYPE\	SERIAL NUMBER\	NOUN	CUSTOMER	CURRENT POWER RTG	PRIOR ORDER
FV654	V	F	P-1166	DRIVEN COMP SF	UA	200F	V911

PRINT: P ACTUALS: ACCUMS/SUBS: Y DIMENSIONS: COAS: LIMITS:

ON ORDNO V665 ON SERIAL 62697 DATE ON 102110 DATE OFF 081010
SERVICEABLE STATUS S DATE-LAST-SERV 101110
COMMENTS

ACCUMULATIONS AND SUB-ASSEMBLIES

ACCUMS:	24547 TSN	32707 CSN	00000 TSMI
	00000 CSMI	00000 TSMDPI	00000 CSMDPI

MT	MODULE NAME	SER NBR	ORDNO	OFF DATE	ON DATE	TSHM	TSMI

* * * END OF REPORT * * *

ENH647D0 ENGINE MAINTENANCE SYSTEM 11/05/10 10:58:10
ENGMOD ENGINE/MODULE SUMMARY REPORT PAGE: 1

ORDER NUMBER\	ENGINE TYPE\	MODULE TYPE\	SERIAL NUMBER\	NOUN	CUST-OMER	CURRENT POWER RTG	PRIOR ORDER
NV656	V	N	P-1266	POWER SECTION	UA	200E	V598

PRINT: P ACTUALS: ACCUMS/SUBS: Y DIMENSIONS: COAS: LIMITS:

ON ORDNO V665 ON SERIAL 67697 DATE ON 102110 DATE OFF 081910

SERVICEABLE STATUS S DATE-LAST-SERV 102010

COMMENTS

ACCUMULATIONS AND SUB-ASSEMBLIES

ACCUMS:	22587 TSN	18226 CSN	00000 TSMI
	00000 CSMI	00000 TSMDFI	00000 CSMDFI

MT	MODULE NAME	SER NBR	ORDNO	OFF DATE	ON DATE	TSHM	TSMI

* * * END OF REPORT * * *

EMH647D0 ENGINE MAINTENANCE SYSTEM 11/05/10 10:58:18
FNGMOD ENGINE/MODULE SUMMARY REPORT PAGE: 1

ORDER NUMBER\	ENGINE TYPE\	MODULE TYPE\	SERIAL NUMBER\	NOUN	CUST-OMER	CURRENT POWER RTG	PRIOR ORDER
AV665	V	A	P209	GEARBOX ASSMBL	UA	200E	V578

PRINT:	ACTUALS:	ACCUMS/SUBS:	DIMENSIONS:	COAS:	LIMITS:
P		Y			

ON ORDNO V665 ON SERIAL 62697 DATE ON 120909 DATE OFF 070209
SERVICEABLE STATUS S DATE-LAST-SERV 120809
COMMENTS

ACCUMULATIONS AND SUB-ASSEMBLIES

ACCUMS:	24248 TSN	32269 CSN	00000 TSMI		
	00000 CSMI	00871 TSMDPI	01521 CSMDPI		

MT	MODULE NAME	SER NBR	ORDNO	OFF DATE	ON DATE	TSHM	TSMI

* * * END OF REPORT * * *

ENH692D0 * * ENGINE MAINTENANCE SYSTEM * * 11/05/10 10:58:25
ENGRVW UNITED AIRLINES ENGINE/MODULE REVIEW PAGE: 1

ORDER NUMBER: V665 ET: V MT: SERIAL NUMBER: 52697
NOUN: APU331 CUST: UA POWER RATING: 200E PRIOR-ORDNO: V607
UPDATE NBR: 02 REVISION NBR: 01 DATE: 11/05/10 REVISED BY: 037997
OFF FLEET 767 OFF AC NBR-POS N656UA-APU DATE ON: 02/13/10
DATE MAINTENANCED: 09/07/10 STA: SFO
SERVICEABLE STATUS: S DATE SERV: 11/05/10
COMMENTS: FIX LETTER: N
DATE LSV: 11/18/09 TSLV: 00871 CSLV: 01521 TSLM: 00871 CSLM: 01521
ACCUMS: 14955 TSN 19404 CSN

REASON REMOVED : TURBINE DISK LIFE
REVIEW COMMENTS: TYPE REPAIR: ESV
BORESCOPE: TYPE OF RUN: H
REPAIR DECISION:
"
"
ACCOMPLISH PRELIMINARY BASE CHECK. ROUTE DRIVEN COMPRESSOR AND POWER SECTION.(JE 9/08).

			REMAINING				ROUTE	TIME/LIMIT	
MT	MODULE NAME	SER NBR	HOURS	CYCLE	TSHM	TSMI	THR	W/C	INSTRUCTION
F	DRIVEN COMP SE	P-1902	N/A	N/A	UNK	03430	NONE		
N	POWER SECTION	P-1983	N/A	00170	UNK	03430	B	X	
A	GEARBOX ASSMBL	P209	N/A	N/A	UNK	00871	NONE		

*** END OF REPORT ***

UNITED AIRLINES

APU TEST CELL SUMMARY

Test Cell # 1
Test Completed: 11/ 2/10 Engine Model GTCP-331 Engine Serial No. 62697
Customer Code. UA Order No V665 Run Type: Power Section Refur

START DATA

PARAMETER	16% N2 DATA	LIMIT	30% N2 DATA	LIMIT	50% N2 DATA	LIMIT	95% N2 DATA	LIMIT
Date	11/ 3/10		11/ 3/10		11/ 3/10		11/ 3/10	
Time	6 22:27		6:22.35		6.22:48		6.23 7	
Time	3.1		10.7		23.9		42.4	
NArpm	6427		12000		19979		37943	
NA %	16.1		30.1		50.1		95.2	
Vgg	.04		22		.26		08	
Vagb	.03		07		.13		.16	
Wf-1	57		59		108		240	
Pfpump	-1.9		-1 9		-1.9		-1 9	
Poilpump	-.2		11.2		45.3		66.8	
Pfinlt	36.5		26.4		26.4		26.2	
CITAvg	19.1		19 1		19.3		19 1	
ACCEL	1374.5		624.0		685.8		1102 6	
Toil	18 6		18.6		19.9		26.6	
Tt7Avg	15.9	1028 degC	337.0	912 degC	563.4	826 degC	356 3	633 degC
EGTAvg	15 0		383.0		616.7		354 7	

UNITED AIRLINES

APU TEST CELL SUMMARY

Test Cell # 1
Test Completed. 11/ 2/10 Engine Model: GTCP-331 Engine Serial No 62697
Customer Code: UA Order No. V665 Run Type: Power Section Refur

PARAMETER	IDLE DATA	LIMIT	GENERATOR DATA	LIMIT
Date	11/ 2/10		11/ 2/10	
Time	9: 1:37		9:26:47	
NArpm	39823		39839	
NA %	99.9		100.0	
PMGAB (Loaded)	101		86	81-102 vac
PMGBC (Loaded)	101		86	81-102 vac
PMGAC (Loaded)	100		86	81-102 vac
KVA1	0		85	
GENAB	208		208	203-212 vac
GENBC	208		208	203-212 vac
GENAC	209		209	203-212 vac
GENFREQ	396		396	395-405 hz
Vgg	.21	0.78 mils	.20	0.78 mils
Vagb	35	0.78 mils	36	0.78 mils
DpCond	.89		1.67	
PtCond	15 30		15.76	
P2Cond	14.70		14 70	
Pfpump	202.2		266.4	
PoilPump	62.6	60-75 psig	62 3	
Pagb	-1.3	-1 8 psig	-1.3	
Ps3	100.6		105.1	
CITAvg	20.2		21.5	
Toil	86.8	152 degC	92.1	
Tt/Avg	323 6	500.0 degC	378.7	
EGTAvg	320 1		377 8	
EGT1	328 3		393.1	
EGT2	311 8		362.6	
Wf-1	213		273	

UNITED AIRLINES

APU TEST CELL SUMMARY

Test Cell # 1
Test Completed: 11/ 2/10 Engine Model GTCP-331 Engine Serial No: 62697
Customer Code: UA Order No V665 Run Type: Power Section Refur

PARAMETER	COMB LOAD DATA	LIMIT	PERFORMANCE DATA	LIMIT	ALTITUDE DATA	LIMIT
Date	11/ 2/10		11/ 2/10		11/ 2/10	
Time	9 32 11		12: 3:59		7. 3:40	
NArpm	40412		40402		40407	
NA %	101.4	101 %	101.4	101 %	101.4	101 %
Vgg	.18	0.78 mil	.19	0.78 mil	.15	0.78 mil
Vagb	.37	0.78 mil	.30	0.78 mil	.29	0.78 mil
IGV-lvdt	0		-18		-19	
SV-TM	100		74		0	
DCP	96.6		96.2	95-97 ppm	95.9	95-97 ppm
KVA1	89		0		0	
WBcorr	273.1		278 0	258.7 ppm	289.1	264.2 ppm
WF-1	402		375		377	
HP/0	464.8		518 6		526.6	
NC	.8		8		8	
DpCond	2.59		2.85		2.69	
PtCond	53.66		55.53		57.41	
P2Cond	14.68		14.64		14 66	
PBcorr	52.54		54.71	52.53 psia	56.70	53.39 psia
Pcell	14.85		14 83		14 84	
Pfpump	456.2		413.4		413.1	
PoilPump	61.7		62.1	60-75 psig	66.7	60-75 psig
Pagb	-1.5		-1 4		3.3	
Ps3	114.6		111.3		113.9	
CITAvg	22.5		26.2		19 3	
CIT1	21.4		25 1		18 4	
CIT2	22.6		26.3		19.4	
CIT3	22.7		26.4		19 6	
CIT4	23.0		26.9		19.9	
TBcorr	188.6		205.4		199.6	
Tfinlt	19.3		29.2		14 8	
Toil	102.9		96.2		90.4	
Tt/Avg	513.1		492.9		481.9	
Tt/AvgCorr	515.9		479.7	501.8 degC	461.6	486.0 degC
EGT1	544.1		521.4		509.7	
EGT2	490.7		472 7		461.3	
EGTAvg	516 9		496.9		485 0	

UNITED AIRLINES

APU TEST STATUS SUMMARY

Test Completed. 11/ 1/10 | Engine Model: GTCP-331 | Engine Serial No: 62697
Customer Code: UA | Order No: V665 | Run Type. Hot Section Repair
Total Runtime: 2:44:14 | Fuel Used: 135 gals

AUTORUN TASKS	*COMPLETED*	*PASS/FAIL*
Altitude Simulation Test	YES	Passed
Oil In Bleed Air	YES	Passed
Performance Run	YES	Passed
Combined Load	YES	Passed
Generator Check	YES	Passed
Surge Control	YES	Passed
Leak/Instrumentation/Idle	YES	Passed
Start	YES	Passed
Fuel bleed	YES	Passed

COMPONENT(s) REPAIRED/REPLACED

APU primary/secondary atomizer repaired/replcd	YES

TESTED OK 7780 NOT OK _____

BY: _____

DATE: NOV 3, 2010

ENGINE MAINTENANCE RECORDS

LOG CERTIFICATION FORM D-199

REF: PAOP 45-55-30-04

CONTROLLED DOCUMENT - DO NOT DUPLICATE

ALL PORTIONS OF BUILD LOGS ARE COMPLETE AND ACCURATE FOR ENGINE/STAND-ALONE MODULES

ESN 62697

Repair Order Number V665

Power Rating 331-200E

IN ADDITION, THE A.D. VERIFICATION CHECKLIST (AS SUPPLIED BY SFOEP) IS ON FILE IN SFOMR/PA AS PART OF THE ENGINE LOG

THE FOLLOWING ITEMS MUST BE CLEARED BEFORE THE ENGINE/STAND-ALONE MODULE IS RELEASED (IF NONE, SO STATE)

NONE

SFOMR/PA _____ **Date** 10/28/2010

Shirley Buffert

FOR SFOMR / PA USE ONLY

WHEN ENGINE MAINTENANCE RETURNS THIS D-199 TO SFOMR/PA AS A RESULT OF A TEST CELL INTERRUPT (TCI) OR A TEST CELL REJECT (TCR), FILL OUT THE FOLLOWING INFORMATION:

REASON: **TCI or TCR?** _____

SFOMR/PA _____ **Date**

(SIGNATURE HERE RENDERS THIS D-199 NULL AND VOID)

SFR4568

REVISED 01/09/2004
(ALL PRIOR DATES OBSOLETE)

ORIGINAL

UNITED

PSEN441A-1 UNITED AIRLINES ENGINE MAINTENANCE SYSTEM PAGE 1
09/07/10 COMPOSITION LIST FOR UNIT TIME: 08.01

REASON: REMOVAL REQUESTOR: PSEN440A PHONE: ORG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V665 MODULE TYPE MODULE NAME WORK CENTER 551

WORK CENTER. 551 TSLV. 00871 CSLV. 01521 TSLM: 00871 CSLM. 01521

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V665	N656UA	APU	SFO	TURBINE DISK LIFE	09/07/10

UNIT ACCUMULATIONS

14955 TSN 19404 CSN

LIMITS THIS EMO WTY

UNIT'S COMPOSITION

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	WTY
DRIVEN COMP SE	F	P-1902	14855 TSN	23010 CSN	03430 TSMI	04973 CSMI		
			03430 TSMDPI	04973 CSMDPI				
POWER SECTION	N	P-1983	16037 TSN	19997 CSN	03430 TSMI	04973 CSMI		
			03430 TSMDPI	04973 CSMDPI				
GEARBOX ASSMBLY	A	P209	24248 TSN	32269 CSN	00871 TSMI	01521 CSMI		
			00871 TSMDPI	01521 CSMDPI				

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS				LIMITS THIS EMO	WTY	UNATH PRI
05650 001	P-1122	UNK TSN	UNK CSN	00871 TSDPI				
FAN -SHROUDED R	3616959-6	01521 CSDPI						

REASON: REMOVAL REQUESTOR: PSEN440A PHONE: ORG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V665 MODULE TYPE MODULE NAME WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697		V	APU331	2000	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V665	N656UA	APU	SFO	TURBINE DISK LIFE	09/07/10

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS			LIMITS THIS EMO	WTY
DRIVEN COMP SE	F	P-1902	14859 TSN	23010 CSN	03430 TSMI	04973 CSMI	
			03430 TSNDPI	04973 CSNDPI			

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	WTY	UNATH PRT
00988 001	1983	UNK TSN	UNK CSN	03430 TSDPI			
IGV ASSY VARIBL	3810231-21	04973 CSDPI	UNK TSS-9089				
00989 001	1-501-1749	18795 TSN	17150 CSN	03430 TSDPI			
IMPELLER-DRCOMP	3822080-3	04973 CSDPI					
05760 001	021998-670	UNK TSN	UNK CSN	03430 TSDPI			
BRNG-D/C THRUST	3613827-1	04973 CSDPI					
05746 001	0591410110	UNK TSN	UNK CSN	00871 TSDPI			
BRNG-D/C ROLLER	3822099-1	01521 CSDPI					

UNITED

PSEN441A-1 UNITED AIRLINES ENGINE MAINTENANCE SYSTEM PAGE 3
09/07/10 COMPOSITION LIST FOR LOWER ASSEMBLY TIME. 08.01

REASON: REMOVAL REQUESTOR: PSEN440A PHONE: ORG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V665 MODULE TYPE MODULE NAME WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697		V	APU331	2OOE	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V665	N656UA	APU	SFO	TURBINE DISK LIFE	09/07/10

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS			LIMITS THIS EMO	LIMITS WTY
POWER SECTION	N	P-1983	16037 ISN	19997 CSN	03430 TSMI 04973 CSMI		
			03430 TSNDPI	04973 CSNDPI			

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS						LIMITS THIS EMO	LIMITS WTY	UNATH PRT
0E719 001 BRNG,P/S-THRUST	041998-172 3613827-1	UNK TSN 04973 CSDPI	UNK CSN	03430 TSDPI						
05720 001 BRNG,P/S-ROLLR	96-3378 3822099-1	UNK TSN 04973 CSDPI	UNK CSN	03430 TSDPI						
00993 001 C1 COMP IMPELLR	2-501-3106 3822067-2	33879 TSN 04973 CSDPI	28681 CSN	03430 TSDPI						
00995 001 C2 COMP IMPELLR	8-3076 3822068-1	23339 TSN 04973 CSDPI	31807 CSN	03430 TSDPI						
01002 001 COMB CHMBANNULR	10407 3830051-5	UNK TSN 04973 CSDPI	UNK CSN	03430 TSDPI						
01005 001 T1 STATOR VANE	TC14-245 E3844038-4	03430 TSN 04973 CSDPI	04973 CSN	03430 TSDPI					YES	
01009 001 T3 WHEEL ASSY	0734504903 3840022-4	03430 TSN 04973 CSDPI	04973 CSN	03430 TSDPI					YES	
01007 001 DISK T2 TURBINE	9650104048 3840007-1	13279 TSN 09031 CSDPI	16383 CSN	06771 TSDPI		X				
01004 001 DISK T1 TURBINE	9835702680 3840019-1	12013 TSN 04973 CSDPI	19830 CSN	03430 TSDPI						
01014 001 NOZZLE SET PRIM	UA00459957 331NOZPRI1	UNK TSN 04973 CSDPI	UNK CSN	03430 TSDPI		B				

REASON: REMOVAL REQUESTOR: PSEN440A PHONE: ORG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V665 MODULE TYPE MODULE NAME WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V665	N656UA	APU	SFO	TURBINE DISK LIFE	09/07/10

FUNC NAME	POS	SERIAL NBR / PART NUMBER	FUNCTION ACCUMULATIONS					LIMITS THIS EMO	WTY	UNATH PRT
01015 NOZZLE SET SECD	001	UA00459958 331NOZSEC1	UNK 04979	ISN CSOPI	UNK	CSN	03430 TSOPI	B		

UNITED

PSEN441A-1 UNITED AIRLINES ENGINE MAINTENANCE SYSTEM PAGE 5
09/07/10 COMPOSITION LIST FOR LOWER ASSEMBLY TIME. 08.01

REASON: REMOVAL REQUESTOR: PSEN440A PHONE: ORG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V665 MODULE TYPE MODULE NAME WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER CODE	CUST	
62697	V		APU331		UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V665	N656UA	APU	SFO	TURBINE DISK LIFE	09/07/10

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	WTY
GEARBOX ASSMBLY	A	P209	24248 TSN	32269 CSN	00871 TSMI	01521 CSMI		
			00871 TSMDPI	01521 CSMDPI				

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS				LIMITS THIS EMO	WTY	UNATH PRT
00987 001	SP-16264	UNK TSN	UNK CSN	00871 TSDPI				
GEARBOX HOUSING	3862699-3	01521 CSDPI						

* * * END OF REPORT FOR ENG - V MT - SN - 62697 * * *

UNITED

PSEN443A 09/07/10

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
LIMIT PLANNING REPORTS FOR UNIT

REASON: AT REMOVAL
SERIAL NUMBER 62697
ORDER NUMBER V665

ENGINE TYPE V
MODULE TYPE

REQUESTOR: REMOVAL
ENGINE NAME APU331
MODULE NAME

PHONE:
ORG:
CUST CODE UA
WORK CENTER 551

WORK CENTER. 551 TSN. 14955 CSN. 19404 TSLM. 00871 CSLM. 01521 TSLV. 00871 CSLV. 01521

SERIAL NBR	ET	MT	NAME	POWER	CUST	LIMIT TYPE	LIMIT VALUE	UNIT ACCUMULATION	REMAINING LIMIT VALUE	IN NLA UNIT	HARD LIMIT NLA LOWEST REMAINING
62697	V		APU331	200E	UA					X B	
										C	00170

ORDER NUMBER V665

REASON REMOVED OR MAINTENANCED
TURBINE DISK LIFE

DATE MAINT.
09/07/10

MODULE LIMIT SUMMARY - HARD AND THRESHOLD

NAME	MT	SERIAL NBR	COMMENTS	LIMIT TYPE	LIMIT VALUE	MODULE ACCUMULATION		REMAINING LIMIT VALUE	IN NLA UNIT	HARD LIMIT NLA LOWEST REMAINING
DRIVEN COMP SE	F	P-1902		X	007000	03430	TSMDPI	03570		
				X	007000	04973	CSMDPI	02027		
POWER SECTION	N	P-1983		X	005000	03430	TSMDPI	01570	X B	
				X	005000	04973	CSMDPI	00027	C	00170
GEARBOX ASSMBLY	A	P209		X	008000	00871	TSMDPI	07129		

REASON: AT REMOVAL — REQUESTOR: REMOVAL — PHONE: — ORG:
SERIAL NUMBER 62697 — ENGINE TYPE V — ENGINE NAME APU331 — CUST CODE UA
ORDER NUMBER V665 — MODULE TYPE — MODULE NAME — WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST
62697	V		APU331	200E	UA

ORDER NUMBER	REASON REMOVED OR MAINTENANCED	DATE MAINT
V665	TURBINE DISK LIFE	09/07/10

FUNCTION LIMITS BY NHA - HARD AND THRESHOLD

NHA NAME — MT — SERIAL NBR
DRIVEN COMP SE — F — P-1902

FUNC POS NAME	SERIAL NBR PART NUMBER	COMMENTS	LIMIT TYPE	LIMIT VALUE	FUNCTION ACCUMULATION	REMAINING VALUE
00989 001 IMPELLER-DRCOMP	1-801-1749 3822080-2	(1-03501-1749) FV879	X	010000	03430 TSDPI	06570

NHA NAME — MT — SERIAL NBR
POWER SECTION — N — P-1983

FUNC POS NAME	SERIAL NBR PART NUMBER	COMMENTS	LIMIT TYPE	LIMIT VALUE	FUNCTION ACCUMULATION	REMAINING VALUE
01009 001 T3 WHEEL ASSY	0734504903 3840022-4	NV376	H	025000	04973 CSN	20027
			B	012000	04973 CSN	07027
01007 001 DISK T2 TURBINE	9550104048 3840007-1	OLD S/N 9503504048	H	020000	16383 CSN	03617
			X	005000	06771 TSDPI	******
			X	005000	09031 CSDPI	******
01004 001 DISK T1 TURBINE	9535702680 3840019-1		H	020000	19830 CSN	00170
			X	005000	03430 TSDPI	01570
			X	005000	04973 CSDPI	00027
01014 001 NOZZLE SET PRIM	UA00459957 331NOZPRI1	NV376	A	006000	03430 TSDPI	02570
			B	003000	03430 TSDPI	******

REASON: AT REMOVAL
SERIAL NUMBER 62697
ORDER NUMBER V665

ENGINE TYPE V
MODULE TYPE

REQUESTOR: REMOVAL
ENGINE NAME APU331
MODULE NAME

PHONE:
ORG:
CUST CODE UA
WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST
62697	V		APU331	2006	UA

ORDER NUMBER V665

REASON REMOVED OR MAINTENANCED
TURBINE DISK LIFE

DATE MAINT
09/07/10

FUNCTION LIMITS BY NHA - HARD AND THRESHOLD

NHA NAME POWER SECTION
MT N
SERIAL NBR P-1983

FUNC NAME	POS	SERIAL NBR / PART NUMBER	COMMENTS	LIMIT TYPE	LIMIT VALUE	FUNCTION ACCUMULATION	REMAINING VALUE
01015	001	UA0045999SB	NV376	A	008000	03430 TSDPI	02570
NOZZLE SET SECD		331N02SEC1		B	003000	03430 TSDPI	******

UNITED

PSEN443A
09/07/10

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
THRESHOLD LIMIT REPORTS FOR UNIT

PAGE: 1
TIME: 08.02

REASON: AT REMOVAL — REQUESTOR: REMOVAL — PHONE: — ORG:
SERIAL NUMBER 62697 — ENGINE TYPE V — ENGINE NAME APU331 — CUST CODE UA
ORDER NUMBER V665 — MODULE TYPE — MODULE NAME — WORK CENTER 551

WORK CENTER. 551 TSN. 14955 CSN: 19404 TSLM: 00871 CSLM. 01521 TSLV. 00871 CSLV. 01521

SERIAL NBR	ET	MT	NAME	POWER	CUST	LIMIT TYPE	UNIT ACCUMULATION	NLA LIMITS THIS EMO
62697	V		APU331	200E	UA			X B

ORDER NUMBER	REASON REMOVED OR MAINTENANCED	DATE MAINT
V665	TURBINE DISK LIFE	09/07/10

MODULE THRESHOLD LIMIT SUMMARY

NAME	MT	SERIAL NBR	COMMENTS	LIMIT TYPE	MODULE ACCUMULATION	NLA LIMITS THIS EMO
POWER SECTION	N	P-1983				X B

REASON: AT REMOVAL — REQUESTOR: REMOVAL — PHONE: — ORG:
SERIAL NUMBER 62697 — ENGINE TYPE V — ENGINE NAME APU331 — CUST CODE UA
ORDER NUMBER V665 — MODULE TYPE — MODULE NAME — WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST
62697	V		APU331	200E	UA

ORDER NUMBER	REASON REMOVED OR MAINTENANCED	DATE MAINT
V665	TURBINE DISK LIFE	09/07/10

FUNCTION THRESHOLD LIMITS BY NHA

NHA NAME — MT — SERIAL NBR
POWER SECTION — N — P-1982

FUNC NAME / POS	SERIAL NBR / PART NUMBER	COMMENTS	LIMIT TYPE	LIMIT VALUE	FUNCTION ACCUMULATION
01007 001	9850104048	OLD S/N 9800804048	X	005000	06771 TSDPI
DISK T2 TURBINE	3840007-1		X	005000	09031 CSDPI
01014 001	UA00459957	NV376	B	003000	03430 TSDPI
NOZZLE SET PRIM	331NOZPRI1				
01015 001	UA00459958	NV376	B	003000	03430 TSDPI
NOZZLE SET SECD	331NOZSEC1				

UNITED

PSEN443A 09/07/10

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
DISC SHEET AND HARD LIMIT REPORT

REASON: AT REMOVAL
SERIAL NUMBER 62697
ORDER NUMBER V665

ENGINE TYPE V
MODULE TYPE

REQUESTOR: REMOVAL
ENGINE NAME APU331
MODULE NAME

PHONE:
CUST CODE UA
WORK CENTER 551

ORG:

WORK CENTER. 551 TSN. 14955 CSN. 19404 TSLM. 00871 CSLM 01521 TSLV. 00871 CSLV. 01521

SERIAL NBR	ET	MT	NAME	POWER	CUST	LIMIT VALUE	HARD LIMIT UNIT	ACCUMULATION	REMAINING VALUE	NLA LOWEST REMAINING VALUE
62697	V		APU331	200E	UA					C - 00170

ORDER NUMBER	REASON REMOVED OR MAINTENANCED	DATE MAINT
V665	TURBINE DISK LIFE	09/07/10

MODULE HARD LIMIT SUMMARY

NAME	MT	SERIAL NBR	COMMENTS	LIMIT VALUE	HARD LIMIT MODULE ACCUMULATION	REMAINING VALUE	NLA LOWEST REMAINING VALUE
POWER SECTION	N	P-1963					C 00170

REASON: AT REMOVAL
SERIAL NUMBER 62697
ORDER NUMBER V665

ENGINE TYPE V
MODULE TYPE

REQUESTOR: REMOVAL
ENGINE NAME APU331
MODULE NAME

PHONE:
CUST CODE UA
WORK CENTER 551

ORG:

SERIAL NBR	ET	MT	NAME	POWER	CUST
62697	V		APU331	200E	UA

ORDER NUMBER	REASON REMOVED OR MAINTENANCED	DATE MAINT
V665	TURBINE DISK LIFE	09/07/10

FUNCTION HARD LIMITS BY NHA

NHA NAME MT SERIAL NBR

POWER SECTION N P-1983

FUNC POS NAME	SERIAL NBR PART NUMBER	HARD LIMIT LIMIT VALUE	FUNCTION ACCUMULATION		REMNG VALUE	REPLACE YES	REPLACE NO	ASSIGNED SERIAL NO	REM HRS	LIFE CYLS	DISC DISP
01009 001 T3 WHEEL ASSY	0734504903 3840022-4	025000	04878	CSN	20027						
01007 001 DISK T2 TURBINE	9650104048 3840007-1	020000	16383	CSN	03617						
01004 001 DISK T1 TURBINE	9835702680 3840019-1	020000	19830	CSN	00170						

REASON: AT REMOVAL
SERIAL NUMBER 62697 ENGINE TYPE V REQUESTOR: REMOVAL PHONE: ORG:
ORDER NUMBER V665 MODULE TYPE MODULE NAME CUST CODE UA
EFFECTIVE MODEL V-UA-ESV WORK CENTER 551

ENGINE NAME APU331

ALL LIFE LIMITED PARTS MEET BUILD LIMITS

TIME REMAINING DOES NOT MEET TEARDOWN GOALS

FUNC NBR	NOUN	SERIAL NUMBER	PART NUMBER	HOURS GOAL /REMAIN	CYCLES GOAL /REMAIN
01004	DISK T1 TURBINE	9835702680	3840019-1	NONE /	3500/00170

*** END OF REPORT FOR ENG - V MT - SN - 62697

*** END OF REPORT ***

UNITED

PSEN442A-1 UNITED AIRLINES ENGINE MAINTENANCE SYSTEM PAGE: 1
11/05/10 COMPOSITION LIST FOR UNIT TIME: 21.30

REASON: INSTALLATION REQUESTOR: MOCOMP PHONE: ORG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V665 MODULE TYPE MODULE NAME WORK CENTER 551

WORK CENTER. 551 TSLV. 00871 CSLV. 01521 TSLM. 00871 CSLM. 01521

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697	V		APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V665	N656UA	APU	SFO	TURBINE DISK LIFE	09/07/10

UNIT ACCUMULATIONS

		LIMITS THIS EMO	WTY
14955 TSN	19404 CSN		

UNIT'S COMPOSITION

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	WTY
DRIVEN COMP SE	F	P-1166	24547 TSN	32707 CSN	00000 TSMI	00000 CSMI		
			00000 TSMDPI	00000 CSMDPI				
POWER SECTION	N	P-1266	22587 TSN	28226 CSN	00000 TSMI	00000 CSMI		
			00000 TSMDPI	00000 CSMDPI				
GEARBOX ASSMBLY	A	P209	24248 TSN	32269 CSN	00000 TSMI	00000 CSMI		
			00871 TSMDPI	01521 CSMDPI				

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	WTY	UNATH PRT
05650 001	P-1122	UNK TSN	UNK CSN	00871 TSDPI			
FAN -SHROUDED R	3615959-6	01521 CSDPI					

UNITED

PSEN442A-1 UNITED AIRLINES ENGINE MAINTENANCE SYSTEM PAGE 2
11/05/10 COMPOSITION LIST FOR LOWER ASSEMBLY TIME 21.30

REASON: INSTALLATION REQUESTOR: MOCOMP PHONE: ORG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V665 MODULE TYPE MODULE NAME WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST
62697	V		APU331	200E	UA UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V665	N656UA	APU	SFO	TURBINE DISK LIFE	09/07/10

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	LIMITS WTY
DRIVEN COMP SE	F	P-1166	24547 ISN 00000 TSNDPI	32707 CSN 00000 CSNDPI	00000 TSNI	00000 CSNI		

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	LIMITS WTY	UNATH PRT
00988 001 IGV ASSY VARIBL	UA0048t274 3810231-21	UNK TSN 00000 CSDPI	UNK CSN 00823 TSS-SDSS	00000 TSDPI			
00989 001 IMPELLER-DRCOMP	0365103273 3822080-3	06785 TSN 00000 CSDPI	09969 CSN	00000 TSDPI		YES	
05780 001 BRNG-D/C THRUST	08-S-08639 3613827-1	00000 TSN 00000 CSDPI	00000 CSN	00000 TSDPI		YES	
05746 001 BRNG-D/C ROLLER	09-0-17651 3822099-1	00000 TSN 00000 CSDPI	00000 CSN	00000 TSDPI		YES	

REASON: INSTALLATION REQUESTOR: MOCOMP PHONE: ORG:
SERIAL NUMBER 82697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V665 MODULE TYPE MODULE NAME WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER CODE	CUST
82697		V	APU331		UA UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V665	N656UA	APU	SFO	TURBINE DISK LIFE	09/07/10

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	LIMITS WTY
POWER SECTION	N	P-1266	22587 TSN 00000 TSMDPI	28226 CSN 00000 CSMDPI	00000 TSMI	00000 CSMI		

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	LIMITS WTY	UNATH PRT
05719 001 BRNG,P/S-THRUST	00224 3613827-1WE	00000 TSN 00000 CSDPI	00000 CSN	00000 TSDPI		YES	
05720 001 BRNG,P/S-ROLLR	09-0-14166 3822099-1	00000 TSN 00000 CSDPI	00000 CSN	00000 TSDPI		YES	
00993 001 C1 COMP IMPELLR	9-501-2130 3822067-2	UNK TSN 00000 CSDPI	UNK CSN	00000 TSDPI			
00995 001 C2 COMP IMPELLR	0-3501-896 3822068-1	22567 TSN 00000 CSDPI	28143 CSN	00000 TSDPI			
01002 001 COMB CHMBANNULR	15-229332R 3830051-5	UNK TSN 00000 CSDPI	UNK CSN	00000 TSDPI			
01005 001 T1 STATOR VANE	09-3-00305 3844038-4	00000 TSN 00000 CSDPI	00000 CSN	00000 TSDPI		YES	
01009 001 T3 WHEEL ASSY	02345102I5 3840022-4	07257 TSN 00000 CSDPI	14688 CSN	00000 TSDPI			
01007 001 DISK T2 TURBINE	0350101634 3840007-1	10317 TSN 00000 CSDPI	08218 CSN	00000 TSDPI		YES	
01004 001 DISK T1 TURBINE	02357024I7 3840019-1	06489 TSN 00000 CSDPI	11653 CSN	00000 TSDPI		YES	
01014 001 NOZZLE SET PRIM	UA00489495 331NOZPRI1	00000 TSN 00000 CSDPI	00000 CSN	00000 TSDPI		YES	

REASON: INSTALLATION
SERIAL NUMBER 62697
ORDER NUMBER V665

ENGINE TYPE V
MODULE TYPE

REQUESTOR: MOCOMP
ENGINE NAME APU331
MODULE NAME

PHONE:

ORG:

CUST CODE UA
WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V665	N656UA	APU	SFO	TURBINE DISK LIFE	09/07/10

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS	LIMITS THIS EMO	WTY	UNATH PRT
01015 001	UA00489503	UNK TSN UNK CSN 00000 TSOPI			
NOZZLE SET SECD	331NOZSEC1	00000 CSOPI			

REASON: INSTALLATION REQUESTOR: MOCOMP PHONE: ORG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V665 MODULE TYPE MODULE NAME WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697		V	APU331	2000	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V665	N656UA	APU	SFO	TURBINE DISK LIFE	09/07/10

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	LIMITS WTY
GEARBOX ASSMBLY	A	P209	24248 TSN	32269 CSN	00000 TSMI	00000 CSMI		
			00871 TSMOPI	01521 CSMOPI				

FUNC NAME	POS	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	LIMITS WTY	UNATH PRT
00887 001		9P-16264	UNK TSN	UNK CSN	00871 TSDPI			
GEARBOX HOUSING		3562699-3	01521 CSDPI					

* * * END OF REPORT FOR ENG - V MT - SN - 62697 * * *

E 4/23/15
2.53:17 PM

Index Form

Doc. Type:	TAG
Tracking Number:	NP0982303
Activity Date:	10/28/10
Doc Number:	EON: V665
Ref Doc:	
Aircraft Number:	
MFG P/N:	
M&E :	
S/N:	2697
OP Step:	
Station:	
ATA Code:	
Fleet:	
Vendor Code:	
Package Type:	ESV
Package Date:	10/28/10
Comments:	APU-200
PREPPED BY :	RITA PAZ — YOUR NAME HERE
PREPPED DATE:	4/3/2015 — TODAY'S DATE

UAL ENGINE / APU ROM Index
Vendor Imaging Systems Control Sheet Version

Section	Item		Description
1	01	☐	Certification form for Scan
2	01	☑	Serviceable Engine & Module Tag
	02	☑	Engine I & R Tags
	03	☑	Module I & R Tags
	04	☐	Non Routine's
	05	☐	Engine Customer Maintenance Tags
	06	☐	Module Customer Maintenance Tags
3	01	☐	Engine Job Instruction Cards
4	01	☐	Module Job Instruction Cards

A	B	C	D	E	F	G
H	I	J	K	L	M	N
P	Q	R	S	T	U	V
W	X	Y				

5	01	☐	COA'S
6	01	☐	Engine Inspection & Condition Sheet, Miscellaneous Documents
	02	☐	Fulfillment Center ICS
7	01	☐	Module Inspection & Condition Sheet

A	B	C	D	E	F	G
H	I	J	K	L	M	N
P	Q	R	S	T	U	V
W	X	Y				

8	01	☐	AD Verification - Checklist
	02	☐	Unit Hard Limit Report
9	01	☐	Final Accountability and Test Cell JIC's
10	01	☐	D-199 (Records Certification)
	02	☐	8130 or ENGVST meter (Engine Certification)
11	01	☐	Customer Documents
12	01	☐	Removal Composition Report
	02	☐	Limit Planning Report
	03	☐	Installation Composition Report

FV654 1366

UNITED
I & R TAG

PCN	PART NO.	NAME	DASHED NO OFF	SER NO IF NO DASH
265-9103-38040002-11		LOAD COMPRESSOR	DASH NO ON —	MFG SER NO P-1166

UT86 Ø

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
		E74	552	LEAD 552								552			
1366	X	1366	7066	1962								DATE SERVICEABLE 10-11-10		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		V665/62697	P	APU	10 25 10	SFOLB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME
2 ☐ TROUBLE
3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO

9393

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY I209A
ON 4-66 V665

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE_____ DATE_____ SIGNATURE AND FILE NO _____

NV656 I363

UNITED
I & R TAG

PCN	PART NO.	NAME	DASHED NO OFF	SER NO IF NO DASH
265·9102·3801003-8·		Power Section	DASH NO ON —	MFG SER NO P-1266

UTSO: Ø

MAINT SHOPS	PS												HOME SHOP	SHIP CONT	BATCHABLE	R
I363	X	I363	552										552			

DATE SERVICEABLE: 10-20-10 | QUANTITY: 1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		V665 / 62697	P	ARU	10/25/10	SFOPB

REMOVAL CODE SEE BACK OF YELLOW STUB
1 ☐ TIME
2 ☐ TROUBLE
3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE: INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.: [signature] 93833

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY 1209A
ON [illegible]

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE. BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO.	NAME	DASHED NO OFF	SER NO IF NO DASH
265·0587	3810213-8	PLENUM-UPPER	DASH NO ON —	MFG SER NO — / ~~UTCO~~ Ø

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	
		E74										552			
I366	X	I366										DATE SERVICEABLE 9-22-10		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	* STA
		V665/62697	P	APU	10/25/10	Stor

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO

93833

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TA

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

RCS CONTROLLED PART ORD

UNITED

I & R TAG

P/N	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
643 - 0130	3616848-2	VALVE	DASH NO ON	MFG SER NO 2319 / UTSO

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE
	PS	263										263	000	N
	X	Vendor Overhauled										DATE SERVICEABLE 10-8-10		QUANTITY 1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		√665 / 62697	P	APU	10,26,10	SFOPB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

Uninstalled

RETURN UNSERVICEABLE UNIT TO ORDJJV

SIGNATURE (OR STAMP) & FILE NO.

ACKNG 101175

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA **OVERHAULED BY OSV/ VENDOR WORK REC & 8130-3 ON FILE PO# S982-631-0696**

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

UNITED

I & R TAG

PCN	PART NO.	NAME	DASHED NO OFF	SER NO IF NO DASH
	671-0050	Exciter	DASH NO ON	MFG SER NO 980218000364 / UTSO

MAINT SHOPS	PS												HOME SHOP	SHIP CONT	BATCHABLE	R
7066	X	7066											552			

DATE SERVICEABLE	QUANTITY
OCT 21 2010	1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		V665 / 62697	P	AFV	10 26 10	SFOPB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

installed

SIGNATURE (OR STAMP) & FILE NO

C. FONG 601175

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA: Repaired by OSV 2006

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE_____ DATE_____ SIGNATURE AND FILE NO _____

PCS CONTROLLED PART

PCN	PART NO	NAME	DASH NO OFF	SER NO IF NO DASH
265	9157	MR49115 MODULE	DASH NO ON -92	MFG SER NO SX5564A / UTSO G

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE
	0	976	N3E	875								875	000	N C
	X	VENDOR REPAIRED										DATE SERVICEABLE		QUANTITY

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE	POSITION	DATE	STA
		V665 / 62697	P	AOV	10 26 10	SFOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

B-767 FRM/FIM- - - - - - - - - -

Installed

SIGNATURE (OR STAMP) & FILE NO

J.V. FONG 10/17/5

REPORTABLE UNIT-MRDATA TRANSACTION REQUIRED

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIRED BY OSV VENDOR WORK REC AND 8130-3 ON FILE P/O # 9188761179

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL? 5 ☐ YES 6 ☐ NO

IF YES WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAPS/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

I209A
NV666

TT - 07257
TC - 14686
TCR-10314

I209A

UNITED
I & R TAG

PCN	PART NO	NAME	DASHED NO OFF / DASH NO ON	SER NO IF NO DASH / MFG SER NO	UTSO
265-0223	3840022-4	Wheel Assy T3		02345/0215	Ø

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE
		E24										E24		
I209A	X	I209A										DATE SERVICEABLE		QUANTITY
												10/5/10		1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV656/61590	P	APU	10,15,10	STOPB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME
2 ☐ TROUBLE
3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

93833

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY I193A
ON NV656 I193A

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE_____ DATE_____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO.	NAME	DASHED NO OFF	SER NO IF NO DASH
265·0491	3844053-1	CASE-COMB	DASH NO ON —	MFG SER NO —

UTSO: Ø

MAINT SHOPS	PS												HOME SHOP	SHIP CONT	BATCHABLE	R
1366	X	1366											552			

DATE SERVICEABLE	QUANTITY
8·27·10	1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV656/96590	P	APU	10 15 10	SFO

INSTALLED ONLY

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

SIGNATURE (OR STAMP) & FILE NO

93837

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

UNITED

I & R TAG

PCN	PART NO.	NAME	DASHED NO OFF	SER NO IF NO DASH
265.0484	3826262-1	DIFFUSER-C2	DASH NO ON —	MFG SER NO — / ~~UTSO~~ Ø

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
		E74										552			
I363	X	I366										DATE SERVICEABLE 8-24-10		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV656/61590	P	MPH	10/15/10	STORE

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE: INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

93833

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

NV663 1209A

UNITED
I & R TAG

PCN	PART NO.	NAME	DASHED NO OFF	SER NO IF NO DASH
265-3071	3810259-3	Hsng Inlet	DASH NO ON	MFG SER NO / UTSO: Ø

MAINT SHOPS	PS											HOME SHOP: E74	SHIP CONT	BATCHABLE	R
1209A	X	1209A										DATE SERVICEABLE: 9-10-11		QUANTITY: 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV656/6590	1	APU	10 15 10	SFOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

93833

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED.

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE_____ DATE_____ SIGNATURE AND FILE NO

UNITED

I & R TAG

PCN	PART NO.	NAME	DASHED NO OFF	SER NO IF NO DASH
265·0291·3870023-1		MOUNT-AFT	DASH NO ON —	MFG SER NO —

UTSG	MAINT SHOPS	PS											552 HOME SHOP	SHIP CONT	BATCHABLE
Ø	I366	X	I366										DATE SERVICEABLE 8 25 10		QUANTITY 1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NU656/61590	P	APU	10 15 10	570 PB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO

93833

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TA

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265·0594	3613194-7	HEATSHIELD	DASH NO ON —	MFG SER NO — / UTSO ∅

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	
I366	X	I366										552			

DATE SERVICEABLE	QUANTITY
8·20·10	1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV656/61590	P	APU	10,15,10	STOPB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO

93833

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TA

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE_____ DATE_____ SIGNATURE AND FILE NO._____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265 3205 · 5	844040-5	STATOR AY - T/	DASH NO ON	MFG SER NO / ~~UTCO~~ Ø

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
		E74										532			
I366	X	I366										DATE SERVICEABLE 9.21.10		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO.	NHA CODE*	POSITION	DATE	STA
		NV656 / 61590	P	APU	10/5/10	[3 To B

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

93833

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

UNITED
I & R TAG

PCN	PART NO.	NAME	DASHED NO OFF	SER NO IF NO DASH
265·0238	3844018-1	STATOR ASY-TS	DASH NO ON —	MFG SER NO — UTCO Ø

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
		E74										552			
I366	X	I366										DATE SERVICEABLE 9 21 10		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV66A / 61590	P	APU	10 OCT 10	STA PB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ON A/C

SIGNATURE (OR STAMP) & FILE NO

93833

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE_____ DATE_____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-3208	3844011-9	STATOR AY - T2	DASH NO ON	MFG SER NO: — / UTSO: 0

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
T193A	X	E74 T193A										E74			
												DATE SERVICEABLE: 9/13/10		QUANTITY: 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NU656 / 61590	P	APU	10 15 10	STOR

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

93833

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE. BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

UNITED

I & R TAG

PCN	PART NO.	NAME	DASHED NO OFF	SER NO IF NO DASH
265-3099	331N0Z5EC1	FUEL N0221.5EC.	DASH NO ON	MFG SER NO: UA00489503 / UTSO: 0

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
		E74										E74			
I193A	X	I193A										DATE SERVICEABLE: 10/12/10		QUANTITY: 1 SET	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV656 / 61590	P	APU	10/15/10	570PB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE.

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

93833

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY I1934
ON NV656 I1934

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE_____ DATE_____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF / DASH NO ON	SER NO IF NO DASH / MFG SER NO	UTSO
	265-3098 331	NOZ PRI 1 SET NOZZL. PRI		UA00489495	NEW

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE
I193B	X	I193A										E74		

DATE SERVICEABLE: 10/11/10 | QUANTITY: 1 SET

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV656/61590	P	APU	10/15/10	BFO PB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME
2 ☐ TROUBLE
3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE: INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.: 93833

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TA

SERVICEABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY I193A
ON NV656 I193A

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED
I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-3206	-3844038-4-	VANE-T1 STATOR	DASH NO ON —	MFG SER NO 09-3-00305 / ~~UT30~~ NEW

MAINT SHOPS	PS											552 HOME SHOP	SHIP CONT	BATCHABLE	R
I366	X	I36C										DATE SERVICEABLE 9 21 10		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
			P	APU	9,21,10	SFOPB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME
2 ☐ TROUBLE
3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

USED VANE TO ASSEMABLE, T-1 STATOR ASSY →
265-3205-(7347

SIGNATURE (OR STAMP) & FILE NO

7347 10/25/16

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

AC 4512 1366

ON LOGGED BY I193A

ON NV1656 I193A

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

UNITED

I & R TAG

PCN	PART NO.	NAME	DASHED NO OFF	SER NO IF NO DASH
265-3097	3830051-5	COMBUSTOR	DASH NO ON	MFG SER NO: 15-229332R; UTSO: E

MAINT SHOPS	PS											HOME SHOP: E74	SHIP CONT	BATCHABLE
I193A	X I193A											DATE SERVICEABLE: 10/11/10		QUANTITY: 1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV656/61590	P	APU	10 15 10	STOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO

93833

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TA

SERVICEABLE UNIT REMARKS IN THIS AREA

(S/N 150331-229332R) I193A
FAA 8130-3 W/O# S9450048620 ATTACHED I193A

ON LOGGED BY I193A
ON NV656 I193A

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-3238	3613827-1WE	BEARING	DASH NO ON	MFG SER NO 00224 / UTSO NEW

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
I193A	X	I193A										E74			
												DATE SERVICEABLE 10/11/10		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV656/61590	P	APU	10/15/10	STOLB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

93833

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS *IN THIS AREA*

FAA 8130-3 w/o# 26532380013 Attached

ON LOGGED BY ___
ON NV656 ___

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-0462	3822099-1	BEARING	DASH NO ON	MFG SER NO 09-0-14166 UTSO NEW

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
I193A	X	I193A										E74			

DATE SERVICEABLE	QUANTITY
10/11/10	1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV656/61590	P	APU	10/15/10	SFOPB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO

93833

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED

UNITED AIRLINES IDENTIFICATION & ROUTING TA

SERVICEABLE UNIT REMARKS IN THIS AREA I193A (S/N 09-162370-14166) I193A
I193A FAA 8130-3 W/O S9450048620 ATTACHED I193A

ON LOGGED BY I193A
ON NV656 I193A

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

IV654 I366

UNITED
I & R TAG

PCN	PART NO.	NAME	DASHED NO OFF	SER NO IF NO DASH
265	3012 · 381023 1-21 ·	IGV Assy	DASH NO ON 4200481274	MFG SER NO —

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
I366	X	I366	7066	552								552		Ø	
												DATE SERVICEABLE 10-5-10		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		FV654/6021	P	APU	10,8,10	SFOAB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME
2 ☐ TROUBLE
3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.
7066 10405

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TA

SERVICEABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY I209A
ON FV654

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION. 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-0084	3826154-1	MOUNT-J6V ACT	DASH NO ON	MFG SER NO — UTSO e

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
I193A	X	I193A										DATE SERVICEABLE 9/23/10		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		FV 654/60221	4	APU	10/8/10	SFORR

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY.

SIGNATURE (OR STAMP) & FILE NO.

7068 100438

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

LOT # 303824 I193A

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE_____ DATE_____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265.0059	3822080-3	Impeller - C/C	DASH NO ON —	MFG SER NO 0365703273 / ~~UTSO~~ 0

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
		E74										552			
L366	X	L366										DATE SERVICEABLE 8.17.10		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		FV 659/60221	P	APU	08 10	SFOPB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

7066 100405

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA LUT 303435 1366

ON LOGGED BY I209A
ON FV654

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES

[redacted]

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED
I & R TAG

PCN	PART NO.	NAME	DASHED NO OFF	SER NO IF NO DASH
	3613827-1	BRNG.	DASH NO ON	MFG SER NO: 09-5-08639 NEW; UTSO

MAINT SHOPS	PS												HOME SHOP: E74	SHIP CONT	BATCHABLE	R
I209A	X	I209A											DATE SERVICEABLE: 10/6/10		QUANTITY: 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK. THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		FV654 / 60221	P	APU	10, 8, 10	SFOPB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME
2 ☐ TROUBLE
3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

7068 100435

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY 1209A
ON FV654

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE_____ DATE_____ SIGNATURE AND FILE NO _____

UNITED
I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	DASH NO ON	SER NO IF NO DASH	MFG SER NO	UTSO
	3822099-1	BRNG				09-0-1765	NEW

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
	X											DATE SERVICEABLE		QUANTITY	
		EZH										EZH			
												8/6/10		1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		FV 605 4/60221	P	APU	10/8/10	SFOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO

7068 100435

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY 1209A
ON FV654

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE_____ DATE_____ SIGNATURE AND FILE NO _____

UNITED
I & R TAG

PCN	PART NO.	NAME	DASHED NO OFF	SER NO IF NO DASH
265 0457	3822067-2	Impeller-C1	DASH NO ON –	MFG SER NO 9-501-2130

MAINT SHOPS	PS	E74	Tail 552	Read 662							552 HOME SHOP	SHIP CONT	BATCHABLE	R
I366	X	I366	7799	1962							DATE SERVICEABLE 8 31 10		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV656/61590	P	APU	10/5/10	STOB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

93853

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TA

SERVICEABLE UNIT REMARKS IN THIS AREA

LVT 303788 1386

ON LOGGED BY I103A

ON NV656 I103A

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

UNITED

I & R TAG

PCN	PART NO.	NAME	DASHED NO OFF	SER NO IF NO DASH
265 0210 ·	3822068-1	Impeller-C2	DASH NO ON ~	MFG SER NO 0-3501-896

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
		E74	BAL 552	Lead 552								552			
1366	X	1366	7799	1962								DATE SERVICEABLE 8 31 10		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV656/61590	P	APU	10/15/10	SFOPS

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

93833

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

LOT 303710 I36K

ON LOGGED BY I193A

ON NV656 I193A

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

I209A
NV661

TT - 6469
TC - 11653
TCR - 08347

I209A

UNITED
I & R TAG

PCN	PART NO	NAME	DASHED NO OFF / DASH NO ON	SER NO IF NO DASH / MFG SER NO	UTSO
265-0224	3840019-1	Disk T1		0235702427	0

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE
		ETH										ETH		
I209A	X	I209A										DATE SERVICEABLE		QUANTITY
												10/5/10		1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		NV65C/61590	A	R-PU	10,5,10	SFOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME
2 ☐ TROUBLE
3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

used disk to build T-1 Whl Assy - 265 3183

SIGNATURE (OR STAMP) & FILE NO.

7790 050785

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY I193A
ON NV656 I193A

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

PCN	PART NO	NAME	DASH NO OFF	SER NO IF NO DASH	
265-3183	3840002-5	T-1 Wheel Assy	DASH NO ON	MFG SER NO	UTSO

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE
		BAL 552	LCOS 552									552		-
L962	X	L962	L962									DATE SERVICEABLE		QUANTITY
												10-6-10		1 EA.

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SRECS & CONFORM TO CURRENT FAR S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE *	POSITION	DATE	STA
		NV656/61590	P	APU	10/5/10	SFOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

SIGNATURE (OR STAMP) & FILE NO

Doug 93033

REPORTABLE UNIT-MRDATA TRANSACTION REQUIRED

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL? 5 ☐ YES 6 ☐ NO

IF YES WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP GREEN TINTED LINE OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAPS/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO.	NAME	DASHED NO OFF	SER NO IF NO DASH
265·0222	3840007-1	DISK-T2	DASH NO ON —	MFG SER NO 03501014634

UTCO Ø

MAINT - SHOPS	PS												HOME SHOP	SHIP CONT	BATCHABLE	R
		E74	L000 651										552			
I366	X	I366	L962										DATE SERVICEABLE 8·17·10		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO.	NHA CODE*	POSITION	DATE	STA
		NV656/61590	A	APU	9,20,10	SFOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

Used disk to build T-2 Wheel Assy 265-0221

SIGNATURE (OR STAMP) & FILE NO.

LTPB 050788

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED

UNITED AIRLINES IDENTIFICATION & ROUTING TA

SERVICEABLE UNIT REMARKS IN THIS AREA

Lor 303983 I36

ON LOGGED BY I193A

ON NV656 I193A

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE. BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

PCN	PART NO	NAME	DASH NO OFF	SER NO IF NO DASH
265-02-21	3840036-1 TJ Wheel Assy		DASH NO ON	MFG SER NO / UTSO

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE
		DAL 552	Lead 552									552		
L962	X	L962	L962									DATE SERVICEABLE 7-21-10		QUANTITY 1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC S & CONFORM TO CURRENT FAR S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE *	POSITION	DATE	STA
		NU656 / 6459U	P	AFU	10 15 10	SFOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

SIGNATURE (OR STAMP) & FILE NO

93833

REPORTABLE UNIT-MRDATA TRANSACTION REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL? 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAPS/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO.	NAME	DASHED NO OFF	SER NO IF NO DASH
265 3147	3810224-12	Housing-16V	DASH NO ON	MFG SER NO ~~UT30~~ Ø

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
I366	X	E74 I366										552			

DATE SERVICEABLE	QUANTITY
9 21 10	1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		IV654/6022	P	APU	10 4 10	SFOB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE:

Installed Orig

SIGNATURE (OR STAMP) & FILE NO

7066 1004635

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

Shop Visit
United Airlines - Dec. 2009

9100 S. Dadeland Blvd., Suite 1500, Miami, FL 33156 +1-305-271-6650
info@longreach.com www.longreach.com

E 4/23/15
2:48.25 PM

Index Form

Doc. Type:	CD
Tracking Number:	NP0982302
Activity Date:	12/14/09
Doc Number:	EON: V607
Ref Doc:	
Aircraft Number:	
MFG P/N:	
M&E :	
S/N:	2697
OP Step:	
Station:	
ATA Code:	
Fleet:	
Vendor Code:	
Package Type:	ESV
Package Date:	12/14/09
Comments:	APU-200
PREPPED BY :	RITA PAZ — YOUR NAME HERE
PREPPED DATE:	4/3/2015 — TODAY'S DATE

UAL ENGINE / APU ROM Index

Vendor Imaging Systems Control Sheet Version

Section	Item		Description
1	01	☑	Certification form for Scan
2	01	☐	Serviceable Engine & Module Tag
	02	☐	Engine I & R Tags
	03	☐	Module I & R Tags
	04	☐	Non Routine's
	05	☐	Engine Customer Maintenance Tags
	06	☐	Module Customer Maintenance Tags
3	01	☑	Engine Job Instruction Cards
4	01	☑	Module Job Instruction Cards

A	B	C	D	E	F	G
H	I	J	K	L	M	N
P	Q	R	S	T	U	V
W	X	Y				

5	01	☐	COA'S
6	01	☑	Engine Inspection & Condition Sheet, Miscellaneous Documents
	02	☐	Fulfillment Center ICS
7	01	☑	Module Inspection & Condition Sheet

A	B	C	D	E	F	G
H	I	J	K	L	M	N
P	Q	R	S	T	U	V
W	X	Y				

8	01	☑	AD Verification - Checklist
	02	☑	Unit Hard Limit Report
9	01	☑	Final Accountability and Test Cell JIC's
10	01	☑	D-199 (Records Certification)
	02	☑	8130 or ENGVST meter (Engine Certification)
11	01	☐	Customer Documents
12	01	☑	Removal Composition Report
	02	☑	Limit Planning Report
	03	☑	Installation Composition Report

UNITED

RECORDS OF MAINTENANCE

CERTIFICATION FORM

SFOMR/PA Certifies that the *Records of Maintenance* for:

Engine S/N 62697 Order NBR V607

Fleet APU Customer UA Vendor _____

Visit Type ESV Complete or Found As Is (*)and ready for storage and/or scanning (circle which one applies).

Signed Rita Paz
(SFOMR - Maintenance Records Specialist)

*Signed _____
(SFOMR - Maintenance Records Supervisor)

*Dual countersignature by supervisor is needed on this form when "found as is" is circled above.

Date 04-03-15

BOX #

MAYRA FLORES /

DEC 14 2009

D199

Checklist for 331-200 (V)

EON: V607 **S/N:** 62697 **DATE:** 12/14/09

JOB NUMBERS		COVER PAGE	CHECK
V0100.0	V607	BASE CHECK	
V0103.0	V	*** ENGINE TEST ***	FINAL
V1000.0	V607	ENGINE DISASSY/ASSY	
V2000 0	NV607	POWER SECTION	
V2005 0	SV607	TURBINE SCAVENGE PUMP ASSY	
V3000 0	AV578	ACCY GEARCASE STARTER CLUTCH ASSY	
V5000 0	PV	OIL PUMP 8130	
V6000 0	FV607	LOAD COMPRESSOR	
V6005 0	IV607	IGV ASSY	
V8000 0		ENGINE BALANCE (Optional)	
V7000 0	LV	STARTER CLUTCH ASSY (Use if different from AV)	

COA	V607	☒ Scheduling Report / ☐ Job Card
COA	NV607	☒ Scheduling Report / ☐ Job Card
COA	AV578	☒ Scheduling Report / ☐ Job Card
COA	FV607	☒ Scheduling Report / ☐ Job Card

☐ 8130 / ☐ I&R / ☐ LIFE CARD	T1	3840019-1/265-0224 WHEEL ONLY	
☐ 8130 / ☐ I&R / ☐ LIFE CARD	T2	3840007-1/265-0222 WHEEL ONLY	
☐ 8130 / ☐ I&R / ☐ LIFE CARD	T3	3840022-4/265-0223 WHEEL ONLY	
☐ 8130 / ☐ I&R / ☐ LIFE CARD	IMPLR-C1	3822067-2/265-0457	DIDN'T ROUTE
☐ 8130 / ☐ I&R / ☐ LIFE CARD	IMPLR-C2	3822068-1/265-0210	
☐ 8130 / ☐ I&R / ☒ LIFE CARD	IMPLR	3822080-3/265-0059	

V1522.0 Give to Inspection to make serviceable (S)
To show in ENGMOD/ENGRVW
For issuance of D199

NOTE TO MR 1 30PM

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, BASE CHECK

REV. 4/26/07

V607	62697	V0100.0
ORDER NO	ENGINE NO	JOB NO

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '~' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT

		V0002.0	- NON-ROUTINE ACCOUNTABILITY
	S022	V0005.0	PARTS AS-RECVD INVENTORY- CUST/LEASE
		V0010.0	MR UNIT/TAG ACCOUNTABILITY LIST
S022	371TL	V0101.0	BASE CHECK - PRELIMINARY SERVICE
		V0101.1	BASE CHECK - FINAL SERVICE
	S022	V0101.2	CSV - C CHECK
		V0101.5	BASE CHECK - PRELIM. SERVICE-CUSTOMER
		V0101.6	BASE CHECK - FINAL SERVICE-CUSTOMER
S022	371TL	V0102.0	BASE CHECK INSPECTION
S022	371TL	V0102.1	M.I.S. CLEAN UP
	S022		

1

Job Instruction Card

331-200 COVER PAGE, BASE CHECK

REV. 4/26/07

V607	62697	V0100.0
ORDER NO	ENGINE NO	JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

S022

2 no cot S022

~~S022~~

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

SIGNATURE: S022 DATE: 12/14/09

END JOB V0100.0 REVISED 4/26/07

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK - PRELIMINARY SERVICE

REV. 5/14/09

V607	62697	V0101.0
ORDER NO	ENGINE NO	JOB NO

NOTE - SET TORQUE WRENCH TO THE TORQUE VALUE SPECIFIED. IF NO TORQUE VALUE IS SPECIFIED, USE STANDARD TORQUE PER GN-8-0-2-14.

CAUTION - SCRAP ANY SELF LOCKING NUT WHICH CAN BE TURNED PAST ITS LOCKING FEATURE BY HAND.

WARNING - REMOVAL OF CHIP DETECTOR HOUSING WILL CAUSE OIL TO DRAIN FROM APU. HOT OIL CAN CAUSE BURNS. TAKE NECESSARY PRECAUTIONS.

M 7779 1. -----C CHECK REQUIRED ITEM----- REMOVE THE FOLLOWING AND CHECK FOR METAL. IF METAL FOUND NOTIFY INSPECTION AND REQUEST JIC V0102.1 FROM SCHEDULE CENTER. REMOVE INLET SCREEN, T-DUCT AND SURGE VALVE ELBOW FOR BOROSCOPE ACCESS. IF METAL NOT FOUND, PROCEED TO NEXT SIGNOFF.

A. GEARBOX MAGNETIC CHIP DETECTOR AND CHIP DETECTOR HOUSING.
METAL FOUND YES 7779 NO _____

B. GENERATOR MAGNETIC CHIP DETECTOR AND CHIP DETECTOR HOUSING.
METAL FOUND YES _____ NO 7779

EMAC 60 4927 004AA 1AC
EMAC 50 4927 004JA 1A
MRB 49-016 - 757
MRB 49-014 - 767

M 7779 2. -----C CHECK REQUIRED ITEM----- REMOVE THE FOLLOWING IF INSTALLED, AND CHECK FOR METAL. IF METAL FOUND, NOTIFY INSPECTION AND REQUEST JIC V0102.1 FROM SCHEDULE CENTER. IF METAL NOT FOUND, PROCEED TO NEXT SIGNOFF.

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

A. TURBINE MAGNETIC CHIP DETECTOR AND CHIP DETECTOR HOUSING.
METAL FOUND YES _____ NO 7779

B. COMPRESSOR MAGNETIC CHIP DETECTOR AND CHIP DETECTOR HOUSING.
METAL FOUND YES _____ NO 7779

EMAC 60 4927 004AE 1A
EMAC 50 4927 004JB 1A
MRB 49-063 - 757

MRB 49-059 - 767

M 7779 3. -----ENGINE SHOP VISIT REQUIRED ITEM-----
REMOVE MONOPOLE AND CHECK FOR METAL AND STRIKE. IF *METAL OR STRIKE FOUND, NOTIFY INSPECTION AND* REQUEST JIC V0102.1 FROM SCHEDULE CENTER.
IF NEITHER FOUND, PROCEED TO NEXT SIGN-OFF.

METAL FOUND YES _____ NO 7779
STRIKE YES _____ NO 7779

M 7779 4. -----C CHECK REQUIRED ITEM----- VISUALLY CHECK MAIN OIL FILTER DIFFERENTIAL PRESSURE INDICATOR AND RECORD FINDINGS. EXTENDED - YES_____ NO 7779

EMAC 60 4927 007AB 1AC
EMAC 50 4927 007JA 1A
MRB 49-023 - 757
MRB 49-022 - 767

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK - PRELIMINARY SERVICE

REV. 5/14/09

V607	62697	V0101.0
ORDER NO.	ENGINE NO.	JOB NO

M 7779 5. -----C CHECK REQUIRED ITEM----- REMOVE OIL FILTER ELEMENT AND CHECK FOR CONTAMINATION OR DAMAGE. IF EITHER CONTAMINATION OR DAMAGE FOUND, NOTIFY INSPECTION. IF OIL FILTER ELEMENT OK, REINSTALL.

NOTE - O-RING MUST BE REPLACED REGARDLESS OF OIL FILTER ELEMENT CONDITION.

METAL FOUND YES 7779 NO _____

EMAC 60 4927 003AC 4A
EMAC 50 4927 003GA 3A
MRB 49-024 - 757
MRB 49-023 - 767
MRB 49-025 - 767

M 7779 6. -----C CHECK REQUIRED ITEM----- VISUALLY CHECK GENERATOR FILTER DIFFERENTIAL PRESSURE INDICATOR AND RECORD FINDINGS. EXTENDED - YES_____ NO 7779

EMAC 60 4927 015JF 1AC
EMAC 50 4927 003JB 1A
MRB 49-025 - 757
MRB 49-024 - 767

M 7779 7. -----ALL SHOP VISIT REQUIRED ITEM-----REMOVE GENERATOR OIL SCAVENGE FILTER AND CHECK FOR METAL. IF METAL FOUND NOTIFY INSPECTION AND REQUEST JIC V0102.1 FROM SCHEDULE CENTER. IF METAL NOT FOUND, REINSTALL OLD FILTER AND PROCEED TO NEXT SIGN-OFF.

METAL FOUND YES _____ NO 7779

EMAC 60 4927 003AI 4A
EMAC 50 4927 003GA 3A
MRB 49-024 - 757
MRB 49-0F 26 767

1962
_____L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

S022 .

8. BEFORE CONTINUING WITH BASE CHECK SERVICE, CONTACT PLANNING CONTROL CENTER FOR SCHEDULING OF BASE CHECK INSPECTION JIC V0102.0.

X I I366

9. IF ENGINE TO BE COMPLETELY DISASSEMBLED, AND ALL MODULES TO BE ROUTED FOR DISASSEMBLY, NO FURTHER INSPECTION SIGN-OFFS REQUIRED, THEN PROCEED TO STEP 11.

I366 I

10. VISUALLY INSPECT ALL DRIVEN COMPRESSOR IMPELLER BLADES FOR DAMAGE AND/OR IRREGULARITIES, INCLUDING LEADING AND TRAILING EDGE WITH BOROSCOPE. ALSO VISUALLY INSPECT POWER SECTION C1 IMPELLER BLADES FOR DAMAGE AND IRREGULARITIES.

NOTE - NOTIFY SFOEP APU ENGINEERING IF DAMAGE FOUND.

DAMAGE FOUND YES_____ NO_____

J M 7779

11. -----ALL SHOP VISIT REQUIRED ITEM-----
IF TSLV IS ~~EQUAL OR GREATER THAN 1000~~ HOURS, REMOVE GENERATOR DIFFERENTIAL PRESSURE SWITCH AND ROUTE TO HOME SHOP.

ROUTED: YES 7779 NO_____
EMAC 50 4927 000JC ASV
EMAC 60 4990 009 ASV
MRB 49-051 - 767

L962 L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK - PRELIMINARY SERVICE

REV. 5/14/09

V607	62697	V0101.0
ORDER NO	ENGINE NO	JOB NO.

M 7779 12. -----C CHECK REQUIRED ITEM----- VISUALLY CHECK FUEL FILTER DIFFERENTIAL PRESSURE INDICATOR AND RECORD FINDINGS.

EXTENDED - YES _____ NO 7779

IF INDICATOR EXTENDED, CHANGE FILTER AND RESET INDICATOR.

EMAC 60 4931 010AB 1AC
EMAC 50 4931 004JA 1A
MRB 49-033 - 757
MRB 49-032 - 767

M 7779 13. -----ENGINE SHOP VISIT REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 2000 HRS, THEN REMOVE FLOW SENSING MODULE AND ROUTE TO HOME SHOP.

ROUTED: YES 7779 NO _____

NOTE - IF COA Y95591 HAS NOT BEEN ACCOMPLISHED, ROUTE FLOW SENSE MODULE REGARDLESS OF TIME.

EMAC 60 4953 001 ASV

M 7779 14. DISCONNECT PNEUMATIC LINES FROM ALL COMPONENTS THEN BLOW OUT LINES USING SHOP AIR.

M 7779 15. -----ALL SHOP VISIT REQUIRED ITEM-----
REMOVE PNEUMATIC LINE AND ELBOW FITTING FROM COMPRESSOR INLET PRESSURE SENSOR. BLOW OUT LINE AND FITTING WITH SHOP AIR OR ULTRASONIC CLEAN. MAKE SURE PORT IN INLET PLENUM IS CLEAN WITHOUT DESTRUCTION.

TUBE CLEARED: YES 7779 NO _____

_____LM 7779 16. -----ALL SHOP VISIT REQUIRED ITEM-----CHECK INLET GUIDE VANE LINKAGE WEAR AS FOLLOWS.

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK - PRELIMINARY SERVICE

REV. 5/14/09

V607	62697	V0101.0
ORDER NO	ENGINE NO	JOB NO

A. REMOVE IGVA COVER. VISUALLY CHECK FOR WEAR ON TRUNNION BUSHING. VISABLE WEAR IS CAUSE FOR TRUNNION BUSHING REPLACEMENT.

TRUNNION BUSHING REPLACED YES_____ NO 7779

B. REMOVE BOLT ATTACHING BELLCRANK TO LINKAGE ROD END. CHECK FOR WEAR IN BELLCRANK AND FOR DAMAGE OR WEAR TO FORKS. SIDE PLAY AT BELLCRANK PIVOT POINT IS CAUSE FOR BELLCRANK REPLACEMENT. IF BELLCRANK IS REPLACED, REPLACE TRUNNION BUSHING REGARDLESS OF CONDITION.

BELLCRANK REPLACED YES_____ NO 7779

NOTE - BELLCRANK PIVOT POINT WEAR HAS BEEN NOTED. ANY PLAY IN BELLCRANK INDICATES PIVOT POINT BEARING WEAR.

C. CHECK TRUNNION BLOCK FOR LOOSENESS WHERE TRUNNION ATTACHES TO BELLCRANK. AXIAL FREEPLAY OF BELLCRANK TO TRUNNION IN EXCESS OF 0.020 INCH IS CAUSE FOR TRUNNION BUSHING REPLACEMENT. IF BELLCRANK IS REPLACED, REPLACE BUSHING REGARDLESS OF CONDITION.

CHECK TRUNNION BLOCK FOR DAMAGE AND REPLACE IF DAMAGED.

TRUNNION BLOCK REPLACED YES_____ NO 7779

D. CHECK FOR FREEPLAY IN IGV LINKAGE AND FOR AXIAL PLAY IN ROD ENDS BY MOVING ROD IN AND OUT. AXIAL PLAY UP TO 0.080 INCH WITH NO VISUAL MOVEMENT IN VANES IS ACCEPTABLE.

NOTE - EXCESS FORCE SHOULD NOT BE APPLIED TO OPEN AND CLOSE INLET GUIDE VANES. SIDE PLAY CAUSED BY ROD END BEARING IS NORMAL.

E. REPLACE WORN EXTERNAL PARTS AND REINSTALL IN ACCORDANCE WITH SHOP PROCEDURE 49-25-01/SP AND/OR 49-10-01/SP.

EMAC 60 4952 099AA 2A1C

M 7779 17. -----ALL SHOP VISIT REQUIRED ITEM-----
CHECK PRESSURE RELIEF VALVE COMBUSTOR DRAIN.
REMOVE DRAIN TUBE AND PRESSURE VALVE. CHECK TO SEE IF VALVE CLOSES BETWEEN 10 - 15 PSIG. REPLACE VALVE IF OUT OF LIMIT ON CLOSING PRESSURE.
CAP VALVE IF NOT REINSTALLED.

ACTUAL PSI: 12

VALVE REPLACED YES_____ NO 7779

EMAC 50 4916 001JA ASV
MRB 49-014 - 757

M 7779 18. CHECK LRU CLUTCH FOR FREE ROTATION IN CLOCKWISE DIRECTION AND FOR SLIPPAGE OR BINDING IN COUNTER CLOCKWISE DIRECTION. REPLACE IF ANY SLIPPAGE OR BINDING FOUND.

REPLACED: YES_____ NO 7779

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK - PRELIMINARY SERVICE

REV. 5/14/09

V607	62697	V0101.0
ORDER NO	ENGINE NO	JOB NO

✓ M 7779 19. -----ESV REQUIRED ITEM-----
IF TSLV IS EQUAL TO OR GREATER THAN 2000 HRS TSLSV REMOVE STARTER MOTOR AND ROUTE TO HOME SHOP.
ROUTED: YES 7779 NO_____

NOTE - IF STARTER MOTOR IS P/N 519858-6, ROUTE TO HOME SHOP REGARDLESS OF TIME.
EMAC 50 49 41 001 ESV
EMAC 60 49 41 001JA E

✓ M 7779 20. -----ALL SHOP VISIT REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 1000 HRS THEN REMOVE GEARBOX PRESSURE REGULATING VALVE AND ROUTE. REMOVE GEARBOX REGULATING VALVE ADAPTER AND ROUTE ON ENGINE CART FOR INSPECTION OR CLEANING PER GN 4-0-3-20.

ROUTED: YES 7779 NO_____

EMAC 60 4927 012AG ASV
EMAC 50 4927 012JB ASV
MRB 49-030 - 757
MRB 49-029 - 767

M 7779 21. REMOVE THE IGNITION LEAD AND PLACE ON CART FOR INSPECTION (EID/REPAIR).

M 7779 22. -----ALL SHOP VISIT REQUIRED ITEM----- REMOVE IGNITOR PLUG AND ADAPTER AND DISCARD PLUG AND GASKETS REGARDLESS OF CONDITION. NOTE CONDITION OF REMOVED PLUG BY STAMPING A OR BELOW BELOW:

A. THE DISTANCE BETWEEN EDGE OF ELECTRODE AND INSIDE OF UNERODED EDGE OF GROUND SHELL TIP IS LESS THAN 0.090 INCH. UNIFORM EROSIION OF ELECTRODE AND OUTER SHELL IS ACCEPTABLE. NO CRACKS OR CHIPPED AREA ON CERAMIC INSULATOR.

B. DISTANCE BETWEEN EDGE OF ELECTRODE AND INSIDE OF UNERODED EDGE OF GROUND SHELL TIP IS GREATER THAN 0.090 INCH. ANY CRACK OR CHIPS ON INSULATION AREA.
ELECTRICAL CONNECTOR PIN BURNED OR BENT.
ANY BROKEN OR MISSING PARTS.
SCRAP PLUG LOCALLY.

EMAC 60 4941 002AA 3A1C

-----ESV REQUIRED ITEM----

✓ M 7779 23. IT TSLV IS GREATER THAN OR EQUAL TO 2000 APU HOURS, THEN REMOVE EXCITER UNIT AND ROUTE TO HOME SHOP.
ROUTED: YES 7779 NO_____

M 7779 24. -----ESV REQUIRED ITEM----- PERFORM HEAT CHECK OF THERMOCOUPLE HARNESS AND RECORD FINDINGS.
LEFT SIDE OPERATIVE - YES 7779 NO_____
RIGHT SIDE OPERATIVE - YES 7779 NO_____
CONNECT EGT GAGE TO THERMOCOUPLE HARNESS, P2 PLUG, PINS 10 AND 24 FOR #1 PAIR AND PINS 11 AND 25 FOR #2 PAIR. USING PORTABLE BOTTLE GAS APPLY LOCALIZED HEAT, 1200 F (650 C) MAXIMUM TO EACH PROBE ONE AT A TIME. EGT GAGE SHOULD RESPOND FOR EACH PROBE. IF ANY PROBE DOES NOT RESPOND TO HEAT CHECK, REPLACE PROBE.

M 7779 25. -----ESV C CHECK REQUIRED ITEM------
CIRCLE AND ACCOMPLISH A OR B BELOW:

7779 A. IF TIME SINCE HARNESS INSTALLATION IS GREATER THAN 2 YEARS OR NO DATE TAG, ROUTE HARNESS TO HOME SHOP.

EMAC 60 4914 000AA

B. IF TIME SINCE HARNESS INSTALLATION IS LESS THAN 2 YEARS, CHECK WIRING INSULATION FOR BREAKS OR ABRASIONS AND REPAIR AS NEEDED. VISUALLY CHECK ALL MAIN HARNESS CONNECTOR SOCKETS FOR EVIDENCE OF ARCING. REPLACE SOCKETS AS NEEDED. (THIS CHECK IS NOT REQUIRED FOR EGT HARNESSES). IF SBV OR LCV CONNECTORS ARE OLD STYLE WITH CERAMIC INSULATOR, CUT OFF AND DISCARD. IF ELECTRICAL SYSTEM FAILS FUNCTIONAL CHECK, ROUTE HARNESS TO HOME SHOP.

EMAC 60 4910 002FC ESV
EMAC 50 4914 000AB ESV

M 7779 26. IF COOLING AIR SHUTOFF VALVE IS PRESENT, NOTIFY SFOEP APU ENGINEERING. REMOVE COOLING AIR SHUTOFF VALVE AND ROUTE TO HOME SHOP. INDICATE BELOW IF VALVE IS INSTALLED:

____ A. COOLING AIR SHUTOFF VALVE INSTALLED.

7779 B. COOLING AIR SHUTOFF VALVE NOT INSTALLED.

NOTE - IF COA Y91710 OR M94260 HAS BEEN ACCOMPLISHED, COOLING FAN SHUT-OFF VALVE HAS BEEN DELETED AND NO ACTION IS REQUIRED.

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK - PRELIMINARY SERVICE

REV. 5/14/09

V607	62697	V0101.0
ORDER NO.	ENGINE NO	JOB NO

M 7779 27. -----ESV REQUIRED ITEM-----
IF TSLV IS GREATER THAN 3000 APU HOURS,
REMOVE THE LOW OIL TEMPERATURE SWITCH AND ROUTE
TO HOME SHOP.

ROUTED: YES_____ NO 7779

EMAC 60 4927 014JD ESV
EMAC 50 4927 014JA ESV

M 7779 28. -----ALL SHOP VISIT REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 1000 HRS, THEN
ROUTE GEARBOX SHUTOFF VALVE TO HOME SHOP.

ROUTED: YES 7779 NO_____

M 7779 29. -----ALL SHOP VISIT REQUIRED ITEM-----
IF TSLV IS EQUAL TO OR GREATER THAN 3000 HOURS, REMOVE
SHUTTLE VALVE. DISASSEMBLE VALVE, CLEAN, REPLACE
SEALS, AND REASSEMBLE.

ROUTED: YES_____ NO 7779

L962 LM 7779 30. -----ALL SHOP VISIT REQUIRED ITEM-----
ACCOMPLISH THE FOLLOWING AND CIRCLE A OR B BELOW:

A. COOLING FAN IS NOT LEAKING OIL. PROCEED TO
SIGN-OFF 31.

7779 (B) COOLING FAN IS LEAKING OIL.
ROUTE COOLING FAN FOR REPAIR.

FAN ROUTED: YES 7779 NO_____

M 7779 31. -----ESV REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 3000 HOURS
REMOVE FLOW DIVIDER VALVE ASSEMBLY AND ROUTE FOR BENCH
TEST OR REPAIR.

ROUTED: YES_____ NO 7779

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK - PRELIMINARY SERVICE

REV. 5/14/09

V607	62697	V0101.0
ORDER NO	ENGINE NO.	JOB NO

✓ M 7779 32. -----C CHECK REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 1000 HOURS
ROUTE OIL COOLER TO HOME SHOP.
ROUTED: YES 7779 NO_____

✓ M 7779 33. -----ALL SHOP VISIT REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 1800 HOURS,
REMOVE SURGE CONTROL VALVE AND ROUTE TO HOME SHOP.
ROUTED: YES 7779 NO_____

✓ M 7779 34. -----ALL SHOP VISIT REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 1000 HOURS,
REMOVE LOW OIL PRESSURE SWITCH AND ROUTE TO HOME SHOP.
ROUTED: YES 7779 NO_____

M 7779 35. -----ESV REQUIRED ITEM----
IF TSLV IS GREATER THAN OR EQUAL TO 3000 APU HRS,
REMOVE THE FUEL CONTROL FOR BENCH TEST.
ROUTED: YES_____ NO 7779

M 7779 36. -----C CHECK REQUIRED ITEM-----
IF TSLV IS GREATER THAN OR EQUAL TO 3000 APU HRS,
REMOVE THE COMPRESSOR INLET PRESSURE SENSOR (P2)
AND ROUTE TO HOME SHOP.
ROUTED: YES_____ NO 7779
EMAC 60 4961 004JA 1C
EMAC 50 4961 004JA 1C

M 7779 37. -----ALL SHOP VISIT REQUIRED ITEM-----
IF TSLV IS GREATER OR EQUAL TO 3000 APU HOURS, REMOVE
DE-OILER SOLENOID AND ROUTE TO HOME SHOP.
ROUTED: YES_____ NO 7779

END JOB V0101.0 REVISED 5/14/09

L962
_____L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 BASE CHECK INSPECTION

REV. 1/7/09

V607	62697	V0102.0
ORDER NO	ENGINE NO	JOB NO.

THE FOLLOWING ARE INSPECTED TO SATISFY "C" CHECKS AND BASE ENGINE CHECK REQUIREMENTS PER GTCP331 EID 49-10-01/I00 AND INTRODUCTION/POLICY SECTION IN BOOK "0". INITIATE NON-ROUTINE (SFR4129) AS REQUIRED AND/OR RE-REVIEW ENGINE TO ACCOMPLISH CORRECTIVE ACTION.

I366 I 1. REVIEW OPEN ELR ITEMS USING "ENGWRK" IN AMIS. STAMP A, B, OR C.

X I I366 A. CUSTOMER ENGINE. NOT APPLICABLE. PROCEED TO NEXT ITEM.

I366 I B. ELR ITEMS NOT PRESENT. PROCEED TO NEXT ITEM.

X I I366 C. TRANSFER "ELR" ITEMS TO NON ROUTINES AND LIST BELOW. ACCOMPLISH "ENDATA" TRANSACTION TO CLEAR ELR ITEMS.

ELR	NON ROUTINE	ELR	NON ROUTINE

I366 I 2. STAMP A OR B BELOW.

I366 I A. ENGINE TO REMAIN IN STALL. PROCEED TO NEXT ITEM.

X I I366 B. POWER SECTION TO BE COMPLETELY DISASSEMBLED. ALL MODULES TO BE ROUTED FOR DISASSEMBLY OR ROUTED WITH ENGINE EXTERNALS FOR MODULE INSPECTION. NO FURTHER SIGN-OFFS REQUIRED.

331-200 BASE CHECK INSPECTION

REV. 1/7/09

V607	62697	V0102.0
ORDER NO	ENGINE NO	JOB NO

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

I366	I	3. VISUALLY INSPECT DRIVEN COMPRESSOR IMPELLER BLADES INCLUDING LEADING AND TRAILING EDGES FOR DAMAGE WITH BORESCOPE.
I366	I	4. VISUALLY INSPECT POWER SECTION C1 IMPELLER BLADES FOR DAMAGE AND IRREGULARITIES.
I366	I	5. VISUALLY CHECK INLET OF DRIVEN COMPRESSOR AND POWER SECTION FOR DAMAGE.
I366	I	6. VISUALLY INSPECT EXPOSED AREAS OF GEARBOX.
I366	I	7. VISUALLY INSPECT POWER SECTION INSULATION BLANKET AND HEAT SHIELD EXPOSED AREAS INCLUDING COMBUSTION CHAMBER CASE DUCT AREA.
I366	I	8. VISUALLY INSPECT GEARBOX MOUNTS.
I366	I	9. VISUALLY INSPECT FWD AND AFT MOUNT BRACKETS.
I366	I	10. VISUALLY INSPECT COOLING FAN AND SURGE VALVE DUCTING.
I366	I	11. VISUALLY INSPECT PLUMBING AND COMPONENTS. EMAC 60 4953 000AA 1C MRB 49-044 - 757 MRB 49-045 767
I366	I	12. VISUALLY INSPECT DRAIN LINES, DRAIN MAST AND CONNECTIONS.
I366	I	13. VISUALLY INSPECT FUEL SYSTEM PLUMBING AND COMPONENTS.
I366	I	14. VISUALLY INSPECT EXHAUST CASE AND MUFFLER.

331-200 BASE CHECK INSPECTION

REV. 1/7/09

V607	62697	V0102.0
ORDER NO	ENGINE NO	JOB NO

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

7356

_____I

15. VISUALLY INSPECT ALL VISIBLE CLAMPS AND BRACKETS.

****

NON-ROUTINES ISSUED:

331-200 BASE CHECK INSPECTION
REV. 1/7/09

V607	62697	V0102.0
ORDER NO	ENGINE NO.	JOB NO

1
STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

END JOB V0102.0 REVISED 1/7/09

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 M.I.S. CLEAN UP

REV. 4/3/09

V607	62697	V0102.1
ORDER NO	ENGINE NO	JOB NO.

371TL
_____L

1. CHECK APPLICABLE BLOCKS BELOW-

NOTE - IF A MINUTE AMOUNT OF METAL IS FOUND ON ANY ONE OF THE MAGNETIC PLUGS, THE CHIP DETECTOR HOUSINGS AND FILTER SHOULD BE REMOVED FROM THE GEARBOX TO DRAIN THE OIL FROM THE SYSTEM. THE FILTERS SHOULD BE CHANGED AND A 15 MINUTE PENALTY RUN SHOULD BE MADE. IF NO METAL IS GENERATED IN THE TEST RUN, NO FURTHER ACTION IS REQUIRED.

WARNING - REMOVAL OF CHIP DETECTOR HOUSING WILL CAUSE OIL TO DRAIN FROM APU. HOT OIL CAN CAUSE BURNS. TAKE NECESSARY PRECAUTIONS.

371TL
_____ A. METAL ON MAGNETIC PLUG/BOTTOM OF GEARCASE OR OIL SUPPLY FILTER OR FILTER BOWL.

METAL: YES 371TL NO_____

371TL
_____ B. METAL ON TURBINE SCAVENGE MAGNETIC PLUG OR IN TURBINE SCAVENGE OIL RETURN LINE.

METAL: YES_____ NO 371TL

0962
_____L ALL ITEMS ARE PROPERLY SIGNED OFF.

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 M.I.S. CLEAN UP

REV. 4/3/09

V607	62697	V0102.1
ORDER NO	ENGINE NO	JOB NO

7779 C. METAL ON MONOPOLE OR IN COMPRESSOR SCAVENGE OIL RETURN LINE OR MAGNETIC PLUG.

METAL: YES_____ NO 7779

ROUTE OIL PUMP.
ROUTE OIL COOLER.
FLUSH FUEL CONTROL OIL CAVITY.
ROUTE OIL LEVEL SWITCH.
FLUSH OIL COOLER SUPPLY & RETURN LINES.
ROUTE DE-OIL SOLENOID.
FLUSH LOW OIL TEMPERATURE SWITCH
(NEAR GENERATOR MAGNETIC PLUG).
FLUSH GEARBOX PER GN 4-0-3-20 PROCESS 01
(SOLVENT CLEAN). THOUROUGHLY BLOW DRY.
LIBERALLY RE-OIL ALL BEARINGS WITH EXXON 2389
ROUTE GEARBOX FOR DISASSEMBLY (ONLY IF
PRESCRIBED ON REVIEW SHEET).

6962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

M 7779 2. ACCOMPLISH BELOW:

IF METAL IS FOUND ON GENERATOR MAGNETIC PLUG OR IN SCAVENGE FILTER AND DIFFERENTIAL PRESSURE INDICATOR EXTENDED, ACCOMPLISH THE FOLLOWING:

INDICATOR EXTENDED : YES_____ NO 7779

METAL: YES_____ NO 7779

ROUTE GENERATOR.
ROUTE GENERATOR SCAVENGE PUMP.
FLUSH GENERATOR SCAVENGE FILTER DELTA P INDICATOR.
ROUTE GENERATOR SCAVENGE FILTER DELTA P SWITCH.
REMOVE GENERATOR MAGNETIC CHIP DETECTOR AND CHIP DETECTOR HOUSING AND FLUSH PORT.

M 7779 3. ACCOMPLISH BELOW:

IF METAL IS FOUND ON TURBINE SCAVENGE MAGNETIC PLUG OR IN TURBINE SCAVENGE OIL RETURN LINE, ROUTE THE TURBINE SCAVENGE PUMP AND FLUSH TURBINE OIL LINES.

METAL: YES_____ NO 7779

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 M.I.S. CLEAN UP

REV. 4/3/09

V607	62697	V0102.1
ORDER NO	ENGINE NO.	JOB NO.

M 7779 4. ACCOMPLISH BELOW:

IF METAL IS FOUND ON MONOPOLE OR IN COMPRESSOR SCAVENGE OIL RETURN LINE OR COMPRESSOR SCAVENGE MAGNETIC PLUG; ROUTE MONOPOLES IF STRIKE HAD OCCURRED; FLUSH MID CAVITY OIL SCAVENGE LINES, AND ROUTE POWER SECTION AND DRIVEN COMPRESSOR. PROCEED TO END.

METAL: YES_____ NO 7779

M 7779 5. ACCOMPLISH BELOW:

IF METAL IS FOUND IN FORWARD DRIVEN COMPRESSOR BEARING, REPLACE THE DRIVEN COMPRESSOR ROLLER BEARING AND CARBON SEAL.

METAL: YES 7779 NO_____

END JOB V0102.1 REVISED 4/3/09

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, ENGINE DISASSY/ASSY

REV. 4/26/07

V607	62697	V1000.0
ORDER NO.	ENGINE NO	JOB NO

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT

S022	S022	V0002.0	- NON-ROUTINE ACCOUNTABILITY
S022	S022	V1010.0	49-10-01ENGINE DISASSEMBLY
S022	S022	V1020.0	EXTERNAL PARTS - CLEANING
S022	S022	V1040.0	ENGINE ASSEMBLY - UAL
		V1040.1	ENGINE ASSEMBLY- CUSTOMER
		V1080.0	QEC REMOVAL
		V1090.0	QEC INSTALLATION
		V1090.1	QEC INSTALLATION - B757
S022			NOTE - INCLUDE 60-49-10-01-02 ICS - V EXTERNALS WITH LOG PACKAGE.

1

Job Instruction Card

331-200 COVER PAGE, ENGINE DISASSY/ASSY

REV. 4/26/07

V607	62697	V1000.0
ORDER NO	ENGINE NO	JOB NO

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

#2 NO COA S022

S022

S022

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

SIGNATURE: S022 DATE: 12/14/09

END JOB V1000.0 REVISED 4/26/07

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 NON-ROUTINE ACCOUNTABILITY

REV. 4/26/07

V607	62697	V0002.0
ORDER NO	ENGINE NO	JOB NO

1. THE FOLLOWING NON-ROUTINE CARDS ARE SIGNED OFF CORRECTLY AND ACCOUNTED FOR. BLANK SPACES INDICATE NO NON-ROUTINES WERE ISSUED.

NOTE - STAMP ISSUE COLUMN TO INDICATE N/R # ENTERED. RETURN COLUMN INDICATES N/R COMPLETED.

SIGN-OFF			SIGN-OFF		
N/R #	ISSUE	/ RETURN	N/R #	ISSUE	/ RETURN
099412	S022	/ S022			/
099411	S022	/ S022			/
099195	S022	/ S022			/
	S022	/		S022	/

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 NON-ROUTINE ACCOUNTABILITY

REV. 4/26/07

V607	62697	V0002.0
ORDER NO.	ENGINE NO	JOB NO

2. THE FOLLOWING NON-ROUTINE CARDS ARE SIGNED OFF CORRECTLY AND ACCOUNTED FOR. BLANK SPACES INDICATE NO NON-ROUTINES WERE ISSUED.

NOTE - STAMP ISSUE COLUMN TO INDICATE N/R # ENTERED. RETURN COLUMN INDICATES N/R COMPLETED.

SIGN-OFF			SIGN-OFF		
N/R #	ISSUE	/ RETURN	N/R #	ISSUE	/ RETURN
		/			/

6822

END JOB V0002.0 REVISED 4/26/07

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

#2, 7, 14 THRU 17 & 19 NOT REMOVED L962

Job Instruction Card

331-200 49-10-01ENGINE DISASSEMBLY

REV. 6/15/00

V607	62697	V1010.0
ORDER NO	ENGINE NO	JOB NO

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-10-01.

M L962 1. REMOVE GENERATOR.

L962 2. REMOVE SURGE VALVE AND DUCTS.

M L962 3. REMOVE COOLING FAN DUCTS.

M L962 4. REMOVE OIL COOLER.

M L962 5. DISCONNECT AND REMOVE ELECTRICAL HARNESS.

M L962 6. REMOVE ENGINE PLUMBING.

M L962 7. REMOVE BLEED AIR DUCT.

M L962 8. REMOVE COOLING FAN.

M L962 9. REMOVE STARTER.

M L962 10. REMOVE FUEL CONTROL.

M L962 11. REMOVE LUBE PUMP.

M L962 12. REMOVE GENERATOR SCAVENGE FILTER.

M L962 13. REMOVE GEARBOX ADAPTER, SOLENOID VALVE AND REGULATOR VALVE.

M 14. REMOVE MANUFACTURING ENGINE DATA PLATE.

M L962 15. REMOVE INLET PLENUM.

M 16. DISASSEMBLE UPPER INLET PLENUM.

M 17. REMOVE INLET SCREENS.

M L962 18. REMOVE GEARBOX.

L962 M 19. REMOVE DRIVEN COMPRESSOR.

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-10-01ENGINE DISASSEMBLY

REV. 6/15/00

V607	62697	V1010.0
ORDER NO	ENGINE NO	JOB NO

END JOB V1010.0 REVISED 6/15/00

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 EXTERNAL PARTS - CLEANING

REV. 6/3/03

V607	62697	V1020.0
ORDER NO.	ENGINE NO	JOB NO

1. U L982 UTILITY MECHANIC (U) CLEAN EXTERNAL COMPONENT PARTS PER GN 4-0-3-20 PROCESS 01 (SOLVENT CLEAN), AND/OR GN 4-0-3-20 PROCESS 2C.

   A. OIL LINES, DUCT ASSEMBLIES, OIL FITTINGS AND TUBES. WASH EXTERIOR AND INJECT SOLVENT INTO INTERIOR PASSAGES. ASSURE ALL PASSAGES ARE NOT OBSTRUCTED AND FREE OF DEPOSITS

L982 L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 EXTERNAL PARTS - CLEANING

REV. 6/3/03

V607	62697	V1020.0
ORDER NO	ENGINE NO	JOB NO.

END JOB V1020.0 REVISED 6/3/03

L982 L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

ITEM 1. LOAD COMP. WAS NOT REMOVED. Miro Gracil 05672 6526

ITEM 13. LRU CLUTCH WAS INSTALLED DURING G/B ASSY. Miro Gracil 05672 6526

Job Instruction Card

331-200 ENGINE ASSEMBLY - UAL

REV. 9/15/09

V607	62697	V1040.0
ORDER NO	ENGINE NO	JOB NO.

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-10-01/SP01.

L962 LM 6526 1. INSTALL DRIVEN COMPRESSOR.

M 6526 2. INSTALL INLET SCREENS.

L962 LM 6526 3. INSTALL GEARBOX.

M 6526 4. PREASSEMBLE UPPER INLET PLENUM.

M 6526 5. INSTALL INLET PLENUM.

M 6526 6. INSTALL MANUFACTURING ENGINE DATA PLATE

M 6526 7. INSTALL MONOPOLES.

M 6526 8. INSTALL GENERATOR SCAVENGE FILTER AND GENERATOR DELTA P SWITCH.

M 6526 9. INSTALL GEARBOX ADAPTER, DE-OIL SOLENOID VALVE AND REGULATOR VALVE (ETOPS CONFIGURATION).

M 6526 10. INSTALL LUBE PUMP DE-OIL TUBE AND FUEL CONTROL. (ETOPS CONFIGURATION)

M 6526 11. DO NOT CLAMP FUEL LINE TO BRACKET BETWEEN FUEL CONTROL AND FLOW DIVIDER VALVE.

M 6526 12. INSTALL MAIN OIL FILTER ELEMENT.

IT 6526 M 6526 13. INSTALL LRU CLUTCH ASSEMBLY.

M 6526 14. INSTALL OIL COOLER.

M 6526 15. INSTALL STARTER. (ETOPS CONFIGURATION)

M 6526 16. INSTALL COOLING FAN.

DUPLICATE SIGNOFF V0101.1

DUPLICATE SIGNOFF V0101.2

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

551

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

ITEM 17. FUEL FLOW DEVIDER WAS NOT REMOVED. Miro Spacil 5672 6526

ITEM 21 WAS REMOVED AND INSTALLED DURING BASE CHECK. Miro Spacil 05672 6526

Job Instruction Card

331-200 ENGINE ASSEMBLY - UAL

REV. 9/15/09

V607	62697	V1040.0
ORDER NO	ENGINE NO	JOB NO.

M 6526 17. INSTALL FLOW DIVIDER VALVE.

M 6526 18. INSTALL BLEED AIR DUCT.

M 6526 19. INSTALL IGV ACTUATOR.

M 6526 20. INSTALL SURGE CONTROL VALVE.

M 6526 21. INSTALL COMBUSTOR DRAIN PRESSURE RELIEF VALVE.

M 6526 22. INSTALL ENGINE PLUMBING.

M 6526 23. INSTALL FLOW SENSING MODULE.
CHECK FLOW SENSE MODULE AND INDICATE A OR B BELOW.

6526 A. ADJUSTABLE

____ B. NON-ADJUSTABLE

M 6526 24. INSTALL COMPRESSOR INLET PRESSURE SENSOR (P2)

M 6526 25. INSTALL GEARBOX SHUTOFF VALVE.

M 6526 26. INSTALL OIL LEVEL SWITCH.

M 6526 27. INSTALL LOW OIL TEMPERATURE SWITCH.

M 6526 28. INSTALL ELECTRICAL HARNESS.
(VERIFY DATE TAG IS INSTALLED)

M 6526 29. INSTALL OIL COOLER AND FLEX LINES COA 5-9104
(ETOPS CONFIGURATION).

M 6526 30. INSTALL COOLING FAN DUCTS.

M 6526 31. INSTALL SURGE VALVE DUCTS.

M 6526 32. INSTALL GENERATOR

NOTE - LUBRICATE APU INPUT SPLINE SHAFT AND O-RINGS WITH GRE4505-1 (CMP 49-01-01).

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

331-200 ENGINE ASSEMBLY - UAL
REV. 9/15/09

V607	62697	V1040.0
ORDER NO.	ENGINE NO.	JOB NO

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

ITEMS 38 AND 41 WERE INSTALLED DURING G/B ASST. Miro Sproul 5672 6526

M 6526 33. INSTALL LOP SWITCH. (ETOPS CONFIGURATION)

M 6526 34. INSTALL HOT SWITCH.

M 6526 35. INSTALL IGNITION EXCITER (ETOPS CONFIGURATION)

M 6526 36. INSTALL GENERATOR AND CONFIRM INSTALLATION OF 1 GENERATOR MAGNETIC CHIP DETECTORS (ETOPS CONFIGURATION).

M 6526 37. INSTALL IGNITION PLUG AND LEAD.

M 6526 38. INSTALL PRISMATIC OIL LEVEL SIGHT GAGE COA 6-9237.

M 6526 39. INSTALL 331-200ER APU DATA PLATE (ETOPS CONFIGURATION) COA 5-9004.

M 6526 40. INSTALL FRONT ENGINE MOUNTS.

--------CONTINUOUS AIRWORTHINESS ITEM----------

6526 CHECK SAFETY

M X 41. INSTALL OIL CAP AND ADAPTER ASSEMBLY COA 5-9110.

1962 LM 6526 42. FINAL ASSEMBLY VERIFICATION.

A. VISUALLY VERIFY ALL PLUMBING IS PROPERLY INSTALLED.

B. VISUALLY VERIFY ALL ELECTRICAL CONNECTORS ARE INSTALLED.

C. VISUALLY VERIFY INLET IS FREE OF F.O.D.

D. VERIFY PRESENCE AND CONDITION OF SAFETY WIRING.

E. VERIFY ENGINE ROTATES SMOOTHLY. LIMITED RUB OF SEALS IN POWER SECTION IS ACCEPTABLE.

ALL ITEMS ARE PROPERLY SIGNED OFF.

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ENGINE ASSEMBLY - UAL

REV. 9/15/09

V607	62697	V1040.0
ORDER NO	ENGINE NO	JOB NO

END JOB V1040.0 REVISED 9/15/09

L962 L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

UNITED AIRLINES

GTCP331-200ER APU Engine Manual - Inspection and Condition Sheet

ENGINE
60-49-10-01-02 ICS

DISTRIBUTION: 551

ENGINE S/N 62697 ORDER NO. V407

VADE NO _____ CUSTOMER _____ ENGINE TYPE. V

REASON FOR REMOVAL: _____

COMMENTS: _____

DISPOSITION CODES:		
	E =	MODULE MEETS EID REQUIREMENTS (ZERO TIME SINCE MODULE INSPECTION) PART MEETS DETAIL PART EID REQUIREMENTS (ZERO TIME SINCE DETAIL PART INSPECTION)
	A =	EXPOSED AREA OF PART MEETS VISUAL REQUIREMENTS OF APPROPRIATE EID (CONTINUED TIME SINCE DETAIL PARTS INSPECTION)
	C =	ROUTED OR CORRECTIVE ACTION TAKEN
	ATA# S/L-SEQ	EID NUMBER [49 precedes numbers shown (49) 31 -XX] SECTION / LIST - SEQUENCE NUMBER
	OFF LOG FUNC#	STAMP TO INDICATE PART/MODULE OFF-LOG FUNCTION NUMBER

NOTE Sign off appropriate disposition code. More than one code may be signed.

NOTE · Indicate condition of unserviceable parts regardless of disposition

NOTE : To clear parts not exposed, draw a line through the complete entry and stamp in the left margin

NOTE . If part is routed on an R&R Tag, it is mandatory to stamp the applicable "E" or "A" Block and write "R&R" in the "C" Block. Then complete the appropriate computer transaction

NOTE . Parts having no specific EID will be visually inspected per 60-49-00-00 Book "0", Introduction, Section 4, A4.

Engine Inspection Guide:

I _____ (1) Convenience Shop Visit (CSV), Project Engine Visit (PEV) or Other Shop Visit (OTH). No parts and/or modules removed or exposed No further sign-off required

1366

I _____ (2) Engine Shop Visit (ESV), Convenience Shop Visit (CSV), Project Engine Visit (PEV) or Other Shop Visit (OTH). Parts and/or modules were removed or exposed. Sign-off or void out the following items as required

Control Date. 20070429

ENGINE S/N: _____ ORDER NO V607

E	A	C	ITEM NOMENCLATURE	ATA # S/L SEQ	OFFLOG FUNC #	ROUTING / CONDITION
I366			CLAMP, V BAND 2 EA	10-00-02 50-070	XXX 5749	
I366			CLAMP, V BAND	10-00-02 50-570	XXX 5575	
I366			CLAMP, V BAND 2 EA	10-00-02 50-580	XXX 5776	
I366			CLAMP, V BAND	10-00-02 50-590	XXX 5777	
	I366		PLENUM, LOWER	21-01-00 10-275	XXX 2280	
			PLENUM, UPPER	21-02-00 10-270	XXX 2279	
I366			SCREEN, INLET	21-03-00 10-255	XXX 5737	
			COVER, MONOPOLE	21-04-00 50-140	XXX 5753	
	I366		COVER, MONOPOLE	21-04-00 50-260	XXX 5758	
			COVER, ACCESS PORT	21-06-00 50-300	XXX 5761	
I366			SHAFT, QUILL	26-22-00 18-105	XXX 5683	
	I366		SHAFT, QUILL	26-22-00 11-200	XXX 2246	
	I366		ADAPTER	27-03-00 50-010	XXX 2235	
I366			TUBE, OIL COOLER LONG	27-11-00 50-610	XXX 14501	
I366			TUBE, OIL COOLER SHORT	27-11-00 50-620	XXX 14502	
I366			BRACKET, OIL COOLER	52-15-00 01-310	XXX 2266	
I366			DUCT, TEE	53-00-01 50-030	XXX 2238	
I366			DUCT, SURGE	53-00-01 50-060	XXX 5748	

ENGINE S/N _____ ORDER NO V607

E	A	C	ITEM NOMENCLATURE	ATA # S/L SEQ	OFFLOG FUNC #	ROUTING / CONDITION
I366			DUCT, ELBOW	53-00-01	XXX	
				50040	2249	
	I366		SENSOR, STATIC	53-18-00	XXX	
				50-600	11778	
I366			BRACKETS	10-01-00	XXX	
				331 IPC		
I366			TUBING	10-01-00	XXX	
				331-IPC		
	I366		HOSES	10-01-00	XXX	
				331-IPC		
			GENERATOR	10-01-00	XXX	
				331-IPC		
	I366		MODULE, POWER SECTION	20-00-00		
				XXX	N	
	I366		MODULE, DRIVEN COMPRESSOR	25-00-00		
				18-000	F	
		I366	MODULE, GEARBOX	26-01-00		routed
				01-000	A	
		I366	ASSEMBLY, COOLING FAN	52-01-00		routed
				03-000	5650 C	
	I366		ASSEMBLY, TURBINE SCAVENGE PUMP	90-05-01	XXX	
				55-010	5578 S	
		I366	ASSEMBLY, LUBE OIL PUMP	90-01-01	XXX	routed
				41-000	5724 P	

I I366 (3) Check Inspection and Condition Sheet for completion.

OMB Control No 2120-0018
09/30/2007

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890000827025Y15 305207278

4 Organization Name and Address		5 Work Order/Contract/Invoice Number
Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	Repair Station ZN3R030M	AU6637W 305207277 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	FAN ASSEMBLY	3616959-6	N/A	1	P-1122	REPAIRED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH
CMM 49-52-37 Rev 3, OCT/31/2005
CI UAL AR 60-49-52-01/AR03 Rev NA, MAR/07/2003

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to		19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature Renoo Ziegler	21 Approval/Certificate No **ZN3R030M**
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed) **Renoo Ziegler**	23 Date (m d y) **OCT 27 2009**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1 it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

FAA form 8130 - 3 (6-01) * Installer must cross check eligibility with applicable technical data NSN 0052 - 00 - 012 - 9005

Paperwork Reduction Act Statement.
An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number associated with this collection of information is 2120-0018
Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at 800 Independence Ave SW, Washington, DC 20591, Attn Information Collection Clearance Officer ABA-20

Phoenix - Sky Harbor
Honeywell International Inc
1944 E Sky Harbor Circle
PHOENIX AZ 85034
Date 27 OCT 2009

Honeywell Repair Station ZN3R030M

Configuration And Findings Evaluation

Repair Order: 2009-305207277-001 **Customer.** 330407 CHROMALLOY ARIZONA
305207278
Customer P/O: AU6637W **Orig Cust:**
Part Number: 3616959-6 **Part Desc:** FAN ASSEMBLY **Serial No:** P-1122
Mods
Series/Issue/Amdts:
Quantity: 1 **Ship Date:** **Received Date:** 19 OCT 2009
Aircraft tail #. **Aircraft S/N#:** **Date on:** **Date off:**
Model #: APU 331-200/250 **Engine S/N:** **Alternate S/N.**

TIMES / CYCLES

Time Since New: **Cycles Since New:**
Time Since Overhaul: **Cycles Since Overhaul:**
Time Since Repair: **Cycles Since Repair:**

CUSTOMER REASON FOR RETURN

PART HAS INTERNAL LEAKS DURING TEST
RUN REPAIR IAW UAL SPEC 49-52-
01/AR03 WARRANTY RETURN

GENERAL CONDITION AS RECEIVED (HIDDEN DAMAGE)

Condition Received Text

Unit oily

Reason for return Code OTHER, DESCRIBED IN REMARKS

Removal Type Unscheduled

DETAIL DISASSEMBLY / EVALUATION FINDINGS

Failure Description:

contaminated

Findings:

Bearings and seals worn

Related Area: **Non-conformance:** CONTAMINATED OR CORRODED **Recurrent Failure:** No

Failed Part	Part Name	Condition:	Primary Failure
3827268-1	BELLOWS, OIL SEAL	Worn	No - but contributing
3822493-2	ROTOR SEAL	Worn	No - but contributing
3613703-1	BEARING, ROLLER, CYLINDRICAL	Worn	No - but contributing
3613704-3	BEARING BALL ANLR	Worn	No - but contributing

SERVICE BULLETINS / AUTHORIZING DOCUMENTS

Authorizing Technical Document
Doc# UAL AR 60-49-52-01/AR03 Rev NA Date 03/07/2003
Doc# CMM 49-52-37 Rev 3 Date 10/31/2005

Phoenix - Sky Harbor
Honeywell International Inc
1944 E Sky Harbor Circle
PHOENIX AZ 85034

Honeywell

Repair Station ZN3R030M

Date 27 OCT 2009

Configuration And Findings Evaluation

Repair Order: 2009-305207277-001 305207278 **Customer:** 330407 CHROMALLOY ARIZONA

Customer P/O: AU6637W **Orig Cust:**

Part Number: 3616959-6 **Part Desc:** FAN ASSEMBLY **Serial No:** P-1122

Mods:

Series/Issue/Amdts:

Quantity. 1 **Ship Date.** **Received Date:** 19 OCT 2009

WORK PERFORMED / COMMENTS TO CUSTOMER

Workscope Performed / Summary of Actions Taken

Disassembled, clean and inspected

Replaced worn bearing and seals Reassembled and return to service UAL SPEC 49-52-01/AR03

Action Taken Code Repaired

Customer Confirmed Removal Reason: None Given

Evaluation Type Evaluated - Significant Fault Found

FINAL CONFIGURATION
Part No. 3616959-6

S/N: P-1122

Series/Issue/Amdts.

Mods:

MECHANIC/ANALYST Dillon Gadd **DATE:** 21 OCT 2009

DS-3616959-6
Sheet 1 of 1

Cooling Fan Acceptance Test Data Sheet

Used with
TI-3616959
Rev. N/A

Date: 10-24-09

Cooling Fan Assembly P/N 3616959-6, Serial Number P-1122

Test APU Model: ☐ 331-200[ER] ☑ 331-250[H]

Test APU Serial No. P-1

APU Load Condition	RTA Peak Vibration (in/sec) at Fan Frequency**			
	No Generator Installed		Generator Installed	
	Limit	Actual*	Limit	Actual
No Load	0 60	.42	0.60	N/A
ECS	0 60	.36	0.60	↓
MES	0 60	.38	0 60	↓

*NOTE: If fan vibration is within limits with the generator installed, it is not necessary to record vibration with the generator removed.

RESULTS. ACCEPT ☑ REJECT ☐

TECHNICIAN: R Kleman FT OCT 24 2009

**Fan Frequency Calculation:

Fan Frequency (Hz) = APU Speed (rpm) multiplied by 1.04 divided by 60(Hz)

Fan Speed

OMB Control No 2120-0018
09/30/2007

1 Approving National Aviation Authority/Country	2.	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890000887302Y15 305367549

4. Organization Name and Address		5 Work Order/Contract/Invoice Number
Honeywell International Inc 1 Cliff Garrett Drive Anniston AL 36201	Repair Station ZX4R716M	S9887809755 305367545 Page 1 of 1

6 Item	7 Description	8. Part Number	9 Eligibility.*	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	VALVE SURGE CONTROL	979806-11	N/A	1	1554	REPAIRED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH·
ATD CMM 49-53-67 Rev 12, AUG/30/2002
CI AC-60-49-53-05-JD Rev NA, OCT/02/2008
CI RAS 49-53-67A-001 Rev NA, MAR/25/2008

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER. EASA 145.4127

14 Certifies the items identified above were manufactured in conformity to		19. ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No **ZX4R716M**
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed) **Arland Doss**	23 Date (m d y) **DEC 01 2009**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1. Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

FAA form 8130 - 3 (6-01) * Installer must cross check eligibility with applicable technical data NSN 0052 - 00 - 012 - 9005

Paperwork Reduction Act Statement:
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Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at: 800 Independence Ave SW, Washington, DC 20591, Attn Information Collection Clearance Officer, ABA-20

1. Approving National Aviation Authority/Country	2.	3. Form Tracking Number:
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	**W110639**

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
REPAIR STATION NO IROR086L Fokker Airinc Incorporated, 14560 Greeno Rd., Fairhope, AL 36532, United States	**S9887609440**

6. Item.	7. Description:	8. Part Number:	9. Eligibility. *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work
1	FLOW SENSING MODULE	3885081-1	N/A	1	SX9999A	REPAIRED

13. Remarks:

REPAIRED IN ACCORDANCE WITH UNITED/HONEYWELL PUBLICATION # AC-60-49-54-01, REVISION # N/A DATED Feb-20-2007 FULL DETAILS OF WORK CARRIED OUT PER WORK ORDER NUMBER W110639 THE WORK WAS PERFORMED BY Roger Swire EMPLOYEE # R S55419

14. Certifies the items identified above were manufactured in conformity to:	19. [X] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13
☐ Approved design data are in a condition for safe operation ☐ Non-approved design data specified in Block 13.	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15. Authorized Signature:	16. Approval/Authorization No:	20. Authorized Signature:	21. Approval/Certificate No:
			IROR086L
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or printed):**	**23. Date (m/d/y)**
		Ronald G. Merkel	Dec-03-2009

User/Installer Responsibilities

It is important to understand the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

UNITED

Tracking Enterprise-wide Distribution of Inventory

Shipping Instruction Page

Printer Friendly View | This Instruction Was Last Updated:

Air/Ground	PCN	Part Number	Noun
Air	6710266	N/A	Exciter

UN/ID/NA Number	Proper Shipping Name
UN2911	Radioactive material, excepted package-instruments

Class Division	Subsidiary Risk	Packing Group	Unit Qty
7	N/A	N/A	0.09 GBQ

Maximum Net Quantity Per Package		IATA Packing Instructions	
Limited Qty	Not Used	Limited Qty	Not Used
Passenger	800.00 GBQ	Passenger	IATA10
Cargo	800.00 GBQ	Cargo	IATA10

Labels Required	Drill Code	IMP Code
None	None	None

Special Authorizations:

N/A

Container Type	Container Required	PCNMIN Container
Fiberboard Box	UAL non-spec fiberboard box	None

Special Packing Instructions:

(NOTE: Per IATA 10.5 no hazard class labels are placed on the completed package. TEDI-HAZMAT cannot generate the correct Air Waybill for UN2911 items at this time. You must manually prepare a domestic or international Air Waybill. Use the AWB templates from the on-line document template library. Do not attempt to generate a TEDI-HAZMAT AWB for this shipment. A Shipper's Dec and Pilot Notification are not required.) PACKAGING: Ensure instrument or the inner packaging is marked with the word "Radioactive" or the phrase "Radiation Hazard". If instrument does not have the phrase included, write the word "Radioactive" or the phrase "Radiation Hazard" on a label or sticker, place the unit in a small box (inner packaging) and affix the sticker/label to the inner packaging. Set up box. Tape all bottom seams. Place cushioning material in box. Place unit (in inner packaging) in box. Fill remaining void in box with cushioning material to prevent movement of or damage to the unit. Close box lids. Tape all top seams. PREPARING A DOMESTIC AIR WAYBILL: Manually complete a domestic Air Waybill. In the 'Instructions to Carrier' box, you must include the 24 hr emergency response number. Also include the statement: 'A Shipper's Declaration and Pilot Notification

OMB Control No 2120-0018
09/30/2007

1 Approving National Aviation Authority/Country	2.	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890000619290Y15 304193910

4 Organization Name and Address		5 Work Order/Contract/Invoice Number
Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	Repair Station ZN3R030M	au6324 304193909 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	PUMP ASSEMBLY LUBE	3880190-10	N/A	1	A3757	REPAIRED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH
CMM 49-91-41 Rev 11, NOV/01/2004

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER EASA 145.4136

14 Certifies the items identified above were manufactured in conformity to		19 ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature Chris Vaughan	21 Approval/Certificate No **ZN3R030M**
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed) **Christopher Vaughan**	23 Date (m d y) **JUN 19 2009**

User / Installer Responsibilities

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FAA form 8130-3 (6-01) * Installer must cross check eligibility with applicable technical data NSN 0052-00-012-9005

Paperwork Reduction Act Statement.
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Phoenix - Sky Harbor
Honeywell International Inc
1944 E Sky Harbor Circle
PHOENIX AZ 85034

Honeywell

Repair Station ZN3R030M

Date 19 JUN 2009

Configuration And Findings Evaluation

Repair Order 2009-304193909-001 **Customer** 330407 CHROMALLOY ARIZONA
304193910
Customer P/O au6324 **Orig Cust**
Part Number. 3880190-10 **Part Desc.** PUMP ASSEMBLY LUBE **Serial No:** A3757
Mods:
Series/Issue/Amdts
Quantity 1 **Ship Date.** **Received Date** 05 JUN 2009
Aircraft tail #. **Aircraft S/N#** **Date on** **Date off**
Model #. 638 Fuel Controls Other **Engine S/N:** **Alternate S/N**
TIMES / CYCLES
Time Since New: **Cycles Since New:**
Time Since Overhaul: **Cycles Since Overhaul:**
Time Since Repair: **Cycles Since Repair:**

CUSTOMER REASON FOR RETURN

repair law irm 49-23-49,

GENERAL CONDITION AS RECEIVED (HIDDEN DAMAGE)

Condition Received Text

oily and dirty

Reason for return Code OTHER, DESCRIBED IN REMARKS

Removal Type Unscheduled

DETAIL DISASSEMBLY / EVALUATION FINDINGS

Failure Description:

metal contaminated

Findings:

Related Area: **Non-conformance:** CONTAMINATED OR CORRODED **Recurrent Failure:** No

Failed Part	Part Name	Condition:	Primary Failure

SERVICE BULLETINS / AUTHORIZING DOCUMENTS

Authorizing Technical Document

Doc# CMM 49-91-41 Rev 11 Date 11/01/2004

WORK PERFORMED / COMMENTS TO CUSTOMER

Workscope Performed / Summary of Actions Taken

DIsassembled, cleaned and inspected

Reassembled,installed new filter Tested and returned for service

Action Taken Code Repaired

Customer Confirmed Removal Reason: None Given

Evaluation Type Evaluated - Minor Fault Found

Phoenix - Sky Harbor
Honeywell International Inc
1944 E Sky Harbor Circle
PHOENIX AZ 85034

Honeywell

Repair Station ZN3R030M

Date 19 JUN 2009

Configuration And Findings Evaluation

Repair Order 2009-304193909-001 304193910
Customer 330407 CHROMALLOY ARIZONA
Customer P/O. au6324
Orig Cust
Part Number. 3880190-10
Part Desc PUMP ASSEMBLY LUBE
Serial No A3757
Mods.
Series/Issue/Amdts:
Quantity. 1
Ship Date
Received Date: 05 JUN 2009

FINAL CONFIGURATION **Part No:** 3880190-10 **S/N.** A3757
Mods.

Series/Issue/Amdts.

MECHANIC/ANALYST Dillon Gadd **DATE.** 10 JUN 2009

So# 5002603656

DS-3880190-101C
DATA SHEET OIL PUMP ASSEMBLY

P/N 3880190- 10 S/N A3757
Scavenge Flowmeter Q2
Technician JE Ethel

Lube Flowmeter Q1
Facility Number 2101-1
Date 6-16-09 Barometer 29.29 inHgAbs

Reference Paragraph Number			1 B (3) (c)		1 B (3) (d) 3 and 5				1 B (3) (d) 6	
Parameter	Symbol	Units	High Pressure Relief		Pump Performance				Pressure Regulator Set	
					Sea Level		Altitude			
			Required	Actual	Required	Actual	Required	Actual	Required	Actual
Oil Inlet Temperature	T	°F	90±30	80	90±30	80	90±30	80	90±30	80
Speed	N	rpm	8186±20	8182	8186±20	8186	8186±20	8188	8186±20	8189
Lube Pump Inlet Pressure	P_{P1}	inHgAbs inHgG	30±1	29.13	30±1	29.13	11 0±0 5	11.0	30±1	29.99
Lube Pressure	P_{P2}	psig			Record	86.45	Record	89.78	71±2	72.1
Pump Discharge	P_{P3}	psig	240±40	269	100±5	98.6	100±5	101.5	Record	83
Scavenge Pump Inlet Pressure	P_{S1}	inHgAbs inHgG	30±1	29.13	30±1	29.13	11 0±0 5	11.0	30±1	29.99
Scavenge Pump Discharge Pressure	P_{S2}	psig	10±10	8.23	10±10	8.22	10±10	7.88	10±10	8.08
Lube Pump Flow	Q_P	Hz gpm			Record, 11 5 min	— 13.13	Record, 9 8 min	— 13.06	Record, 8 4±0 1	— 8.48
Scavenge Pump Flow	Q_S	Hz gpm			Record, 3 8 min	— 4.38	Record, 3 6 min	— 4.32	Record Record	— 4.38

Reference Paragraph Number			1 B (3) (d) 2 and 4		
			Low Speed Pump Performance		
Parameter	Symbol	Units	Sea Level		Altitude	
			Required	Actual	Required	Actual
Oil Inlet Temperature	T	°F	90±30	80	90±30	80
Speed	N	rpm	1900±20	1906	1900±20	1909
Lube Pump Inlet Pressure	P_{P1}	inHgAbs inHgG	30±1	29.02	11 0±0 5	11.0
Lube Pressure	P_{P2}	psig				
Pump Discharge	P_{P3}	psig	100±5	98.9	10±10	5.6
Scavenge Pump Inlet Pressure	P_{S1}	inHgAbs inHgG	30±1	29.02	11 0±0 5	11.0
Scavenge Pump Discharge Pressure	P_{S2}	psig	10±10	1.67	75±5	76.75
Lube Pump Flow	Q_P	Hz gpm	Record, 2 4 min	— 3.01		
Scavenge Pump Flow	Q_S	Hz gpm			Record, 0 5 min	— 0.96

If pump fails this test point, contact the responsible Engineer and supply a copy of this data sheet or the original In addition a copy of this data sheet should also accompany any rejected pump

Cold Soak Test Status

Accept ____
Reject ____
Not Required ✓

Unit Status

Accept ✓
Reject ____

Pump History

New ____
Repaired ✓

Reference Paragraph Number	4 A (filter replacement)	Verified OE
Remarks	Technician Signature JE Ethel	Date 6-16-09

Lube Pump Assembly Test Data Sheet
Figure 102

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	8130-289485

4 Organization Name and Address

AEROTRON AIRPOWER, INC.
456 AEROTRON PARKWAY
LAGRANGE, GA 30240

FAA CERTIFICATION # XJ3R973L

Phone 706-812-1700
FAX 706-812-9666

5 Work Order, Contract, or Invoice Number

20906-274

Cust Ref S9887608302

6 Item	7 Description	8 Part Number.	9 Eligibility*	10. Quantity	11. Serial/Batch Number	12. Status/Work
1	VALVE, DE-OIL SOLENOID	3876166-1 6431179	N/A	1	3060	INSPECTED

13 Remarks

49-91-47 Rev:1 11/16/1998

A GENERAL DESCRIPTION OF THE WORK PERFORMED IS IN THE ATTACHED WORK ORDER DOCUMENT, UNDER THE PART DESCRIPTION LISTED IN BLOCKS 6,7,8,10 AND 11 AS APPLICABLE A COMPLETE DESCRIPTION OF WORK PERFORMED IS ON FILE AT THE ABOVE REFERENCED ORGANIZATION UNDER THE WORK ORDER AND SYSTEM TRACKING REFERENCE NUMBER INDICATED IN BLOCKS 3 AND 5. NOTICE: An Airworthiness Directive may apply to the articles(s) described hereon. The installer is responsible for ensuring complete compliance with any applicable Airworthiness Directives.

Aerotron AirPower, Inc certifies that the work specified in block 12 was carried out in accordance with EASA 145 and with respect to that work the aircraft component is considered ready for release to service under EASA acceptance certificate number EASA 145 4067 and CAAC # F00100047

COMPLIED WITH AC-60-49-53-20-JD DATED 12/30/2002 COMPLIED WITH RAS 49-50-00J-001

14. Certifies the items identified above were manufactured in conformity to:

- ☐ Approved design data and are in condition for safe operation
- ☐ Non-approved design data specified in Block 13.

19 ☑ 14 CFR 43.9 Return to Service ☑ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature	21 Approval/Certificate Number
			XJ3R973L
17. Name (Typed or Printed):	18 Date (m/d/y):	22. Name (Typed or Printed) KIRT MATHES	23 Date (m/d/y) Jun/22/2009

User/Installer Responsibilities

It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft maybe flown

OMB Control No 2120-0018
09/30/2007

1 Approving National Aviation Authority/Country	2.	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890000872651Y15 305378980

4 Organization Name and Address		5 Work Order/Contract/Invoice Number
Honeywell International Inc 1 Cliff Garrett Drive Anniston AL 36201	Repair Station ZX4R716M	S9887809761 305378979 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	VALVE,OUTL, REGULATING, GEARBOX	3289504-2	N/A	1	PL101	REPAIRED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH.
ATD CMM 49-27-13 Rev 6, JAN/31/2003
CI AC-60-49-26-10-JD Rev NA, JUN/17/2008
CI RAS 49-27-13A-001 Rev NA, NOV/16/2007

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER EASA 145 4127

14 Certifies the items identified above were manufactured in conformity to		19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		Certfies that unless otherwise specfied in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No **ZX4R716M**
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed) **John Canada**	23 Date (m d y) **NOV 21 2009**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

FAA form 8130 - 3 (6-01) * Installer must cross check eligibility with applicable technical data NSN 0052 - 00 - 012 - 9005

Paperwork Reduction Act Statement.
An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number associated with this collection of information is 2120-0018
Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at. 800 Independence Ave SW, Washington, DC 20591, Attn Information Collection Clearance Officer, ABA-20

1 Approving National Aviation Authority/Country: FAA/UNITED STATES	2. **AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number: **78907-09**

4. Organization Name and Address: **Repair Station# OA9R240X** **AERO TECHNOLOGIES, LLC.** **2200 NW 84th Ave., Miami, Florida 33122, Fax 305/436-6064, 305/436-5464**	5 Work Order/Contract/Invoice Number **78907 / S9826308351**

6. Item	7. Description:	8. Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch Number	12 Status/Work
1	**SHUTOFF VALVE**	**3616848-2**	**N/A**	**1**	**0716**	**INSPECTED**

13. Remarks: **Work order # 78907 describing actual work performed is attached.**
Work performed has been completed IAW FAA approved data.
The Inspection performed was accomplished IAW UA CMM AC-60-49-63-01 and authorized supplemental documents therein.
JD Rev Dated 01/04/2005.
Aero Technologies has verified that there are no outstanding and/or existing AD's on this unit.

Certifies that the work specified in block 12/13 was carried out in accordance with EASA PART 145 and with respect to that work the aircraft component is considered ready for release to service under EASA Approval Certificate Number 4199 and FAR PART 145 Air Agency Certificate number145.4199

14. Certifies the items identified above were manufactured in conformity to	19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13
☐ Approved design data and are in condition for safe operation. ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15 Authorized Signature:	16 Approval/Authorization No.:	20 Authorized Signature.	21 Approval/Certificate No.. **OA9R240X**
17. Name (Typed or Printed)	18 Date (m/d/y):	22 Name. (Typed or Printed) **GIUSEPPE TARTAGLIA**	23 Date (m/d/y): **Oct 27,2009**

User/Installer Responsibilities

It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulations of an Airworthiness Authority different than the Airworthiness Authority of the country specified in block 1, it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the Airworthiness Authority of the country specified in block 1

Statements in block 14 and 19 do not constitute installation certification *In all cases aircraft maintenance records must contain an installation certification issued in accordance* with national regulations by the user/installer before the aircraft may be flown

UNITED

PSEN446A-1 UNITED AIRLINES ENGINE MAINTENANCE SYSTEM PAGE 1
11/18/09 COA SCHEDULING REPORT TIME. 08.01
COAS FOR ENTIRE ASSEMBLY REASON: REMOVAL REQUESTOR NAME: REMOVAL
ORGANIZATION:

WORK CENTER: 551

SERIAL NBR	ET	MT	NAME	PWR RTG	CUST
62697		V	APU331	200E	UA

ORDER NUMBER
V607

COA NUMBER	COA CAT	MODULE/ FUNC NBR	UNIT SERIAL	UNIT COA STATUS	ISS	COMP	COA TITLE	COMPLETION DATE
Y-9171-O	2		62697	COMPLETED			GTCP331-200 CLNG FAN VLV DELETION	04/14/04
Y-9569-1	2		62697	COMPLETED			GTCP331-200 FLOW SENSING MODULE PALLET	04/14/04
O-9227	1		62697	COMPLETED			757/767 APU PNEU MOD PLT STAND & UPGRD	04/14/04
5-9004	1		62697	COMPLETED			B757 331-APU INSTALL S/N DATA PLACARD	04/14/04
5-9089	4	00988	1983	COMPLETED			757/767 GTCP331 APU IGV BUSHNG-UPGRADE	08/23/00
5-9110	1		62697	COMPLETED			757/767 331 APU OIL GAL AND ADAPTER AS	04/14/04
5-9127	2		62697	COMPLETED			GTCP331-200ER APU SCV SERPENTINE LINE	04/14/04
6-9227	1		62697	COMPLETED			B767/B757 APU OIL LEVEL SIGHT GAGE PLT	04/14/04

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 STARTER CLUTCH - DISASSEMBLY/CLEANING

REV. 5/6/96

LV578	62332	V7010.0
ORDER NO.	ENGINE NO.	JOB NO.

M L962 1. REMOVE LRU CLUTCH ADAPTER TOOL.

M L962 2. REMOVE ASSEMBLED STARTER GEAR FROM ADAPTER.

M L962 3. REMOVE WASHERS AND WAVE SPRINGS FROM ADAPTER.

M L962 4. REMOVE RETAINING RING AND WASHERS FROM ASSEMBLED STARTER GEAR. REMOVE SPLINE SHAFT AND PLUG.

M L962 5. REMOVE BEARINGS FROM SPLINE SHAFT AND STARTER GEAR.

M L962 6. DISCARD ALL BEARINGS EXCEPT P/N 3860160-1. BAG REMAINING BEARING FOR RECOVERY.

7. U L962 *UTILITY MECHANIC (U) CLEAN DISASSEMBLED PARTS* PER GN 4-0-3-20 PROCESS 01. (SOLVENT CLEAN)

M L962 8. ROUTE PARTS TO INSPECTION.

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 STARTER CLUTCH - DISASSEMBLY/CLEANING

REV. 5/6/96

LV578	62332	V7010.0
ORDER NO.	ENGINE NO	JOB NO

END JOB V7010.0 REVISED 5/6/96

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 STARTER CLUTCH - ASSEMBLY

REV. 9/27/93

LV578	62332	V7040.0
ORDER NO.	ENGINE NO.	JOB NO

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-27-01/SP01.

ASSIGNED TO ENGINE ORDER NUMBER V607 8022

M 7066 1. ASSEMBLE STARTER GEAR ASSEMBLY.

2.9850 - A2 (REFERENCE DIMENSION)

- 2.367 - A3

= .618 - (SUBTOTAL)

- 0.6180 - A1 (REFERENCE DIMENSION)

= .000 - (SUBTOTAL)

+ .211 - B

= .211 - (SUBTOTAL)

- 0.0780 - (SPRING HEIGHT)

= .133 - (SUBTOTAL)

- 0.1000 - (NOMINAL)

= 033 - SHIM THICKNESS REQUIRED.

.032 - ACTUAL SHIMS USED, + OR - 0.001 INCH.

551

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 STARTER CLUTCH - ASSEMBLY

REV. 9/27/93

LV578	62332	V7040.0
ORDER NO.	ENGINE NO.	JOB NO.

M 7066 2. INSTALL SPLINE SHAFT AND STARTER CLUTCH.

.270 - 1A

- .128 - 1B

= .142 - (SUBTOTAL)

- .062 - 1C

= .080 - (SUBTOTAL)

- 0.0455

= .0345 - SHIM THICKNESS REQUIRED.

.035 - ACTUAL SHIMS USED, + OR - 0.0025 INCH.

M 7066 3. PACKAGE LRU CLUTCH ASSEMBLY.

END JOB V7040.0 REVISED 9/27/93

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, POWER SECTION
REV. 4/26/07

NV607	62697	V2000.0
ORDER NO	ENGINE NO	JOB NO

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT

	V0002.0	- NON-ROUTINE ACCOUNTABILITY
	V2010.0	49-20-02TURBINE GROUP REMOVAL
	V2011.0	49-20-01COMPRESSOR/COMBUSTOR DISASSEMBLY
	V2020.0	POWER SECTION - CLEANING
	V2041.0	COMPRESSOR/COMBUSTOR ASSEMBLY
	V2042.0	49-24-00TURBINE GROUP ASSEMBLY.
SO22	V2043.0	49-20-02TURBINE GROUP INSTALLATION
	V2043.5	49-20-02TURBINE BEARING REMOVAL & INSTALLATION
		NOTE - INCLUDE 60-49-20-00-00 ICS - POWER SECTION MODULE 'NV' WITH LOG PACKAGE.

Job Instruction Card

331-200 COVER PAGE, POWER SECTION

REV. 4/26/07

NV607	62697	V2000.0
ORDER NO	ENGINE NO	JOB NO

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

S022

#2 NO CAN S022

S022

S022

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

   ASSEMBLY S/N: P-1983 S022

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

   SIGNATURE: S022 DATE: 12/10/09

END JOB V2000.0 REVISED 4/26/07

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, TURBINE SCAVENGE PUMP ASSY

REV. 4/26/07

SV607	62697	V2005.0
ORDER NO	ENGINE NO	JOB NO

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT

V0002.0 - NON-ROUTINE ACCOUNTABILITY

V2050.0 49-23-49TURBINE SCAVENGE PUMP - DISASSEMBLY

V2021.0 TURBINE SCAVENGE PUMP ASSY - CLEANING

V2055.0 49-23-49TURBINE SCAVENGE PUMP - ASSEMBLY

NOTE - INCLUDE 60-49-90-05-01 ICS - TURBINE SCAVENGE OIL PUMP MODULE WITH LOG PACKAGE.

1

Job Instruction Card

331-200 COVER PAGE, TURBINE SCAVENGE PUMP ASSY

REV. 4/26/07

SV607	62697	V2005.0
ORDER NO	ENGINE NO	JOB NO

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

fr no COA S022

S022

S022

S022

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

ASSEMBLY S/N: none S022

3. MAINT. MANAGER OR *DESIGNEE SIGNATURE* VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

SIGNATURE: S022 DATE: 12/10/09

END JOB V2005.0 REVISED 4/26/07

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, LOAD COMPRESSOR

REV. 4/26/07

FV607	62697	V6000.0
ORDER NO.	ENGINE NO.	JOB NO.

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT

S022 S022

V0002.0 - NON-ROUTINE ACCOUNTABILITY
V6010.0 DRIVEN COMPRESSOR - DISASSEMBLE
V6020.0 DRIVEN COMPRESSOR - CLEANING
V6040.0 DRIVEN COMPRESSOR - ASSEMBLY
NOTE - INCLUDE 60-49-25-00-00 ICS - LOAD COMPRESSOR/IGV MODULE 'FV' WITH LOG PACKAGE.

S022

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, LOAD COMPRESSOR

REV. 4/26/07

FV607	62697	V6000.0
ORDER NO.	ENGINE NO	JOB NO

S022

S022

S022

2nd last S022

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

ASSEMBLY S/N: P-1902 S022

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

SIGNATURE: S022 DATE: 12/9/09

END JOB V6000.0 REVISED 4/26/07

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, IGV ASSEMBLY

REV. 4/26/07

IV607	62697	V6005.0
ORDER NO	ENGINE NO	JOB NO.

S022

2 NO COA S022

S022.

S022.

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

   ASSEMBLY S/N: NONE S022

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

   SIGNATURE: S022 DATE: 12/10/09

END JOB V6005.0 REVISED 4/26/07

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, IGV ASSEMBLY

REV. 4/26/07

ORDER NO	ENGINE NO	JOB NO
IV607	62697	V6005.0

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT

V0002.0 - NON-ROUTINE ACCOUNTABILITY
V6015.0 IGV ASSEMBLY-DISASSEMBLE
V6025.0 IGV ASSEMBLY - CLEANING
V6045.0 IGV ASSEMBLY-ASSEMBLE
NOTE - INCLUDE 60-49-25-02-00 ICS - VARIABLE INLET GUIDE VANE MODULE WITH LOG PACKAGE.

UNITED AIRLINES

GTCP331-200ER APU Engine Manual - Inspection and Condition Sheet

GEARBOX MODULE
60-49-26-01-00 ICS

DISTRIBUTION 551

ENGINE S/N: 62332 VADE NO _____ CUSTOMER UA

MODULE ORDER NO: AV578 MODULE S/N P209 MODULE A

REASON FOR REMOVAL. _____

COMMENTS: _____

DISPOSITION CODES		
	E =	PART MEETS DETAIL PART EID REQUIREMENTS (ZERO TIME SINCE DETAIL PART INSPECTION)
	A =	EXPOSED AREA OF PART MEETS VISUAL REQUIREMENTS OF APPROPRIATE EID (CONTINUED TIME SINCE DETAIL PARTS INSPECTION)
	C =	PART ROUTED OR CORRECTIVE ACTION TAKEN
	ATA# S/L-SEQ	EID NUMBER [49 precedes numbers shown (49) 31 -XX] SECTION / LIST - SEQUENCE NUMBER
	OFF LOG FUNC#	STAMP TO INDICATE PART OFF-LOG FROM MODULE FUNCTION NUMBER

NOTE Sign off appropriate disposition code More than one code may be signed.

NOTE : Indicate condition of unserviceable parts regardless of disposition

NOTE : To clear parts not exposed, draw a line through the complete entry and stamp in the left margin

NOTE : If part is routed on an R&R Tag, it is mandatory to stamp the applicable "E" or "A" Block and write "R&R" in the "C" Block Then complete the appropriate computer transaction.

NOTE Parts having no specific EID will be visually inspected per 60-49-00-00 Book "0", Introduction, Section 4, A4.

Module Inspection Guide:

I _____ (1) Module inspected and found serviceable per EID 60-49-26-01-00 [ZERO Time Since Module Inspection (TSMI)] No parts removed from module No additional sign-off required.

I I193A (2) Module partially or completely disassembled. Removed parts and / or exposed areas inspected per appropriate EID (ZERO Time Since Detail Parts Inspection - TSDPI)

Control Date 20070329

ENGINE S/N 62332 ORDER NO: AV578

E	A	C	ITEM NOMENCLATURE	ATA # / S/L SEQ	OFFLOG / FUNC #	ROUTING / CONDITION
		I193A	BEARING, FAN IDLER	26-00-01	XXX	ROUTED TO CAZ
				01-410	5642	
		I193A	BEARING, OIL PUMP	26-00-01	XXX	ROUTED TO CAZ
				01-420	5643	
		I193A	BEARING, HI SPEED PINION	26-00-01	XXX	ROUTED TO CAZ
				01-430	5644	
		I193A	BEARING, GENERATOR IDLER	26-00-01	XXX	ROUTED TO CAZ
				01-440	5645	
		I193A	BEARING, GENERATOR	26-00-01	XXX	ROUTED TO CAZ
				01-450	5646	
		I193A	BEARING, IDLER	26-00-01	XXX	ROUTED TO CAZ
				01-460	5647	
		I193A	BEARING, OUTER RACE	26-00-01	XXX	ROUTED TO CAZ
				01-460	9267	
		I193A	HOUSING, ACCY GEARBOX	26-02-00	I193A	WORN BRG. SURFACES ROUTED TO CAZ
				01-300	0987	
I193A			GEAR ASSY, OIL PUMP	26-03-00	XXX	OK
				01-120	2233	
I193A			GEAR, GENERATOR IDLE	26-04-00	XXX	OK
				01-160	2230	
		I193A	GEAR ASSY, MATCHED SPUR	26-05-00	XXX	DAMAGED ROUTED TO CAZ
				01-130	2229	
		I193A	GEARSHAFT, GENERATOR DRIVE	26-06-00	XXX	SHAFT DAMAGED ROUTED TO CAZ
				01-200	2231	
I193A			GEAR, FAN IDLER	26-08-00	XXX	OK
				01-140	2237	
I193A			TUBE, JET ASSY	26-10-00	XXX	OK
				01-250	5637	
		I193A	TUBE	26-11-00	XXX	ROUTED TO CAZ WORN/DAMAGED
				01-080	5628	
		I193A	TUBE	26-11-00	XXX	DAMAGED - ROUTED TO CAZ
				01-240	5636	
		I193A	TUBE	26-11-00	XXX	DAMAGED ROUTED TO CAZ
				01-070	5627	
I193A			TUBE	26-12-00	XXX	OK
				01-260	5638	

ENGINE S/N 62332 ORDER NO: AV578

E	A	C	ITEM NOMENCLATURE	ATA # S/L SEQ	OFFLOG FUNC #	ROUTING / CONDITION
I193A			OIL JET	26-13-00	XXX	OK
				01-050	5625	
I193A			OIL JET	26-13-00	XXX	OK
				01-040	5624	
I193A			OIL JET	26-13-00	XXX	OK
				01-060	5626	
I193A			TRANSFER TUBE	26-14-00	XXX	OK
				01-210	5633	
I193A			GEAR, HI SPEED PINION	26-16-00	XXX	OK
				01-150	2232	
I193A			HOUSING, FILLER	26-21-00	XXX	OK
				01-020	5622	
		I193A	HOUSING, GEN SCVG PUMP	90-02-02	XXX	ROUTED AS ASSY
				60-010	5789	
		I193A	GEAR, SPUR	90-02-03	XXX	ROUTED
				60-030	5791	
		I193A	GEARSHAFT	90-02-03	XXX	ROUTED
				60-040	5792	
		I193A	GEARSHAFT	90-02-03	XXX	ROUTED
				60-050	5793	
		I193A	SEAL ASSY, ENCASED	90-02-02	XXX	ROUTED
				60-020	5790	
		I193A	BEARING, STARTER GEAR	26-00-01	XXX	ROUTED TO CAZ
				05-020	5641	
		I193A	BEARING, INNER RACE	26-00-01	XXX	ROUTED TO CAZ
				05-030	9266	
		I193A	BEARING, BALL	26-00-01	XXX	ROUTED TO CAZ
				05-060	5649	
		I193A	BEARING, SPLINED SHAFT	26-00-01	XXX	ROUTED TO CAZ
				05-090	5648	
I193A		~~I193A~~	GEAR, STARTER DRIVE	26-07-00	XXX	~~ROUTED TO CAZ~~ VOID I193A OK I193A
				05-040	5634	
I193A			CLUTCH, ONE WAY	26-07-01	XXX	OK
				05-080	5640	
		I193A	PLUG, STARTER DRIVE	26-07-02	XXX	HEAVY WEAR
				05-050	5639	ROUTED TO CAZ

ENGINE S/N 62332 ORDER NO: AV578

E	A	C	ITEM NOMENCLATURE	ATA # / S/L SEQ	OFFLOG / FUNC #	ROUTING / CONDITION
I193A			SHAFT, SPLINED	26-07-03	XXX	OK
				05-070	5635	
I193A			ADAPTER, CLUTCH	26-07-04	XXX	OK
				05-010	5706	
		I193A	TENSION WASHER	BOOK 0	XXX	SCRAP 100%
				05-110	5631	
					XXX	
					XXX	
					XXX	
					XXX	
					XXX	
					XXX	
					XXX	

I I193A (3)Check Inspection and Condition Sheet for completion.

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, ACCY GEARCASE

REV. 4/26/07

AV578	62332	V3000.0
ORDER NO.	ENGINE NO.	JOB NO.

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT

S022	V0002.0	- NON-ROUTINE ACCOUNTABILITY
S022 . . S022	V3010.0	ACCY GEARCASE - DISASSEMBLY
S022 . . S022	V3020.0	ACCY GEARCASE - CLEANING
S022 . S022	V3040.0	49-26-01ACCESSORY GEARBOX ASSEMBLY
S022	V4010.0	GEN SCAV PUMP - DISASSEMBLY AND CLEAN
	V4040.0	GEN SCAVENGE PUMP - ASSEMBLY
S022 . . S022	V7010.0	STARTER CLUTCH - DISASSEMBLY/CLEANING
S022 . . S022	V7040.0	STARTER CLUTCH - ASSEMBLY

NOTE - INCLUDE 49-26-01/ICS - ACCESSORY GEARBOX/CLUTCH AY INSPECTION WITH LOG PACKAGE.

S022

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, ACCY GEARCASE

REV. 4/26/07

AV578	62332	V3000.0
ORDER NO.	ENGINE NO.	JOB NO

S022

S022

S022

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

   ASSEMBLY S/N: P209 S022

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

   SIGNATURE: S022 DATE:

END JOB V3000.0 REVISED 4/26/07

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ACCY GEARCASE - DISASSEMBLY

REV. 1/9/98

AV578	62332	V3010.0
ORDER NO.	ENGINE NO.	JOB NO.

M 7066 1. REMOVE EXTERNAL PLUG FROM CENTER OF GEARBOX HOUSING ADJACENT TO THE GENERATOR PAD AND DISCARD OLD PART NUMBER PLUG (WITHOUT KEENSERT). DISCARD O-RING

M 7066 2. REMOVE DISCHARGE TUBE AND OIL JET FROM AROUND CLUTCH ENSURING REMOVAL OF CLAMP, RETAINED TUBE AND FASTENERS.

M 7066 3. REMOVE RETAINER FROM OIL PRESSURE SUPPLY TUBE TO CARRIER.

M 7066 4. REMOVE BEARING RETAINERS FROM PINION AND GENERATOR GEARS.

M 7066 5. REMOVE CARRIER ASSEMBLY FROM GEARBOX HOUSING.

M 7066 6. REMOVE OIL TUBES AND DISCARD O-RINGS.

M 7066 7. REMOVE COOLING FAN IDLER GEAR AND REMOVE BEARINGS WITH 294866-5 ADAPTER, 294870-2 PLATE AND 4020C PULLER.

NOTE - THIN GEAR (.250) PART NUMBER MAY BE DIACARDED WITH BEARINGS PRIOR TO DISASSEMBLY IF THE GEARBOX WAS ROUTED FOR REPLACEMENT OF THE IDLER GEAR.

L962 L 8. CIRCLE AND ACCOMPLISH A OR B BELOW:
WAS ENGINE REVIEWED FOR COOLING FAN IDLER GEAR REPLACEMENT?

A. YES, CALL FOR EXPOSED AREA INSPECTION.

L962 (B). NO, CONTINUE DISASSEMBLY AT SIGN-OFF 10 AND ROUTE DISASSEMBLED GEARBOX FOR CLEANING.

551

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ACCY GEARCASE - DISASSEMBLY

REV. 1/9/98

AV578	62332	V3010.0
ORDER NO.	ENGINE NO.	JOB NO

_____I 9. PERFORM EXPOSED AREA INSPECTION TO CHECK FOR PRESENCE OF OIL JETS, CONDITION OF GEAR TRAIN AND WEAR IN IDLER GEAR LINER. IF MODULE REQUIRES FURTHER DISASSEMBLY BASED ON CONDITION, OFF-LOG MODULE AND RE-REVIEW.

NOTE - NO FURTHER DISASSEMBLY REQUIRED IF CONDITION IS OK.

7066
M_____ 10. REMOVE GENERATOR SCAVENGE PUMP DISCARD O-RINGS AND SEAL.

M 7066 11. REMOVE ALL PLUGS AND FITTINGS FROM EXTERNAL OF GEARBOX. DISCARD O-RINGS.

M 7066 12. REMOVE CAP AND ADAPTER ASSEMBLY, FILLER AND SIGHT GLASS HOUSING, REFLECTOR, PLACARD AND WINDOW. DISCARD O-RINGS.

M 7066 13. DISASSEMBLE JETS FROM CARRIER AND REMOVE REMAINING BEARING RETAINERS. DISCARD O-RINGS.

7066
M_____ 14. REMOVE THE FOLLOWING GEARS AND BEARINGS. (USE TOOL CHART).

GEAR	ADAPTER	PLATE	PULLER
OIL PUMP DRIVE	294866-5	294867-3	4020C
GENERATOR IDLER	294866-1	294867-1	4020C
COMPOUND GEAR	294865-2	294865-2	4020C
GENERATOR DRIVE	294866-4/-6	294870-5	4020C
HIGH SPEED PINION	294866-3	294869-1	4020C

7066
M_____ 15. REMOVE OIL TRANSFER TUBES, OIL JETS AND SCAVENGE TUBE. DISCARD O-RINGS.

END JOB V3010.0 REVISED 1/9/98

L962
_____L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ACCY GEARCASE - CLEANING

REV. 4/27/01

AV578	62332	V3020.0
ORDER NO.	ENGINE NO	JOB NO

1. U L962 UTILITY MECHANIC (U) CLEAN ACCESSORY GEARCASE PER GN 4-0-3-20 PROCESS 01 (SOLVENT CLEAN), AND/OR GN 4-0-3-20 PROCESS 2C.

551

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ACCY GEARCASE - CLEANING

REV. 4/27/01

AV578	62332	V3020.0
ORDER NO.	ENGINE NO	JOB NO

END JOB V3020.0 REVISED 4/27/01

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-26-01ACCESSORY GEARBOX ASSEMBLY

REV. 2/21/06

AV578	62332	V3040.0
ORDER NO.	ENGINE NO.	JOB NO

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-26-01.

ASSIGNED TO ENGINE ORDER NUMBER V6078022

M 7066 1. PREASSEMBLE GEARBOX HOUSING.

M 7066 2. ASSEMBLE BEARINGS ON GEARS.

L962 LM 7066 3. INSTALL GEARS.

L962 LM 7066 4. INSTALL CARRIER.

M 7066 5. INSTALL BEARING RETAINERS.

M 7066 6. ASSEMBLE AND INSTALL GENERATOR SCAVENGE PUMP.

M 7066 7. CIRCLE AND ACCOMPLISH A OR B BELOW.

WAS ENGINE REVIEWED FOR COOLING FAN IDLER GEAR REPLACEMENT?

A. YES, NO FURTHER SIGNOFF REQUIRED.

NOTE - STEPS 1 THROUGH 6 ABOVE REPRESENT ONLY PARTIAL ASSEMBLY OF THE EXPOSED PARTS TO ACCOMPLISH THE COOLING FAN IDLER GEAR CHANGE.

L962 B. NO, CONTINUE WITH ASSEMBLY STEPS.

M 7066 8. ASSEMBLE AND INSTALL GENERATOR SCAVENGE PUMP.

M 7066 9. ASSEMBLE AND INSTALL STARTER CLUTCH.

M 7066 10. INSTALL EXTERNAL PARTS.

L962 L 11. FINAL LEAD CHECK.

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

551

ENGINE MAINTENANCE DEPARTMENT

UNITED

10

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 49-26-01ACCESSORY GEARBOX ASSEMBLY

REV. 2/21/06

AV578	62332	V3040.0
ORDER NO.	ENGINE NO	JOB NO

END JOB V3040.0 REVISED 2/21/06

L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1. Approving National Aviation Authority/Country	2	3 Form Tracking Number*
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG**	67141

4. Organization Name and Address	5 Work Order/Contract/Invoice Number
Ohlinger Industries, Incorporated 1211 West Melinda Lane, Phoenix, AZ 85027 FAA Repair Station No OHRR712K	AU6848

6 Item:	7. Description	8 Part Number:	9 Eligibility* *	10 Quantity	11 Serial/Batch Number*	12 Status/Work
1	HSG ASSY GEARBOX	3862699-3	N/A	1	9P-16254	REPAIRED

13. Remarks FPI, R-R DISCREPANT HARDWARE DER EA03-60 REV 00, 7/17/03
SLEEVE DISCREPANT P/M BORES, CHEMFILM
METAL SPRAY

WORK ACCOMPLISHED PER HONEYWELL MANUAL 49-23-49 REV 30, 09/30/09, SERVICE BULLETIN N/A, WORK ORDER, 67141
WORK ACCOMPLISHED AND/OR SUPERVISED BY MARK DOMSHER
OHLINGER INDUSTRIES INC CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12 AND 13 WAS PERFORMED IN ACCORDANCE WITH EASA PART-145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA 145 4708 APPROVAL CERTIFICATE

14 Certifies the items identified above were manufactured in conformity to.	19. ☒ 14 CFR 43.9 Return To Service ☒ Other Regulation Specified in Block 13
☐ Approved design data and are in condition for safe operation. ☐ Non-approved design data specified in block 13.	Certifies that unless otherwise specified in block 13, the work identified in block 12 and described in block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15 Authorized Signature.	16. Approval/Authorization No :	20 Authorized Signature.	21. Approval/Certificate No
		Alan Davis	OHRR712K
17 Name (typed or printed)*	**18. Date:**	**22. Name (typed or printed):**	**23 Date***
		ALAN DAVIS	Oct/22/2009

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in block 1

Statements in block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

* Installer must cross check eligibility with applicable technical data

pc-dmis	PART NAME 3862899HSG		October 22, 2009	06:08
	REV NUMBER . NC	SER NUMBER : 67141	STATS COUNT : 1	

	IN	LOC1 - CL1 LINER B

AX	NOMINAL	+TOL	-TOL	MEAS	DEV	OUTTOL
D	2 1661	0.0005	0.0000	2.1666	0.0005	0.0000
RN	0.0000	0.0005	0.0000	0.0002	0.0002	0.0000

FCFPERP1	IN	⊥ Ø0 001 Ⓢ A

Feature	NOMINAL	+TOL	-TOL	MEAS	DEV	OUTTOL
LINER B	0 0000	0.0010	0.0000	0.0001	0.0001	0.0000

FCFPERP2	IN	⊥ Ø0 001 Ⓢ A

Feature	NOMINAL	+TOL	-TOL	MEAS	DEV	OUTTOL
LINER C CL2	0.0000	0.0010	0.0000	0.0001	0.0001	0.0000

	IN	LOC2 - CL2 LINER C

AX	NOMINAL	+TOL	-TOL	MEAS	DEV	OUTTOL	BONUS
Y	2.9000	0	0	2 9002	0 0002	0	0
Z	1 4470	0	0	1.4469	-0.0001	0	0
DF	1.8512	0.0005	0.0000	1 8512	0.0000	0.0000	0.0000
RN	0.0000	0.0005	0 0000	0.0004	0 0004	0.0000	0
TP	MMC	0.0030	0	0	0.0004	0.0000	0.0000

FCFPERP3	IN	⊥ Ø0 001 Ⓢ A

Feature	NOMINAL	+TOL	-TOL	MEAS	DEV	OUTTOL
LINER D CL3	0 0000	0.0010	0.0000	0.0001	0.0001	0.0000

	IN	LOC3 - CL3 LINER D

AX	NOMINAL	+TOL	-TOL	MEAS	DEV	OUTTOL	BONUS
Y	0.9603	0	0	0.9604	0 0001	0	0
Z	-2.1700	0	0	-2 1701	-0.0001	0	0
DF	1 8519	0.0005	0 0000	1 8523	0 0004	0.0000	0.0004
RN	0.0000	0.0005	0.0000	0 0002	0 0002	0.0000	0
TP	MMC	0.0030	0	0	0 0002	0 0000	0.0004

	IN	LOC4 - CL4 LINER E

AX	NOMINAL	+TOL	-TOL	MEAS	DEV	OUTTOL	BONUS
Y	0.0000	0	0	0.0000	0.0000	0	0
Z	-6.3378	0	0	-6.3375	0.0003	0	0
DF	2.8359	0.0005	0.0000	2.8361	0.0002	0.0000	0.0002
RN	0.0000	0.0005	0.0000	0 0002	0 0002	0 0000	0
TP	MMC	0.0030	0	0	0 0005	0.0000	0.0002

FCFPERP4	IN	⊥ Ø0.001 Ⓢ A

Feature	NOMINAL	+TOL	-TOL	MEAS	DEV	OUTTOL
LINER E CL4	0 0000	0.0010	0.0000	0.0001	0.0001	0.0000

FCFPERP5	IN	⊥ Ø0.001 Ⓢ A				
Feature	NOMINAL	+TOL	-TOL	MEAS	DEV	OUTTOL
LINER F CL5	0.0000	0.0010	0.0000	0.0001	0.0001	0.0000

⌖	IN	LOC5 - CL5 LINER F					
AX	NOMINAL	+TOL	-TOL	MEAS	DEV	OUTTOL	BONUS
Y	-0.2190	0	0	-0.2187	0.0003	0	0
Z	4.3780	0	0	4.3777	-0.0003	0	0
DF	1.3787	0.0005	0.0000	1.3788	0.0001	0.0000	0.0001
RN	0.0000	0.0005	0.0000	0.0001	0.0001	0.0000	0
TP	MMC	0.0030	0	0	0.0008	0.0000	0.0001

FCFPERP6	IN	⊥ Ø0.001 Ⓢ A				
Feature	NOMINAL	+TOL	-TOL	MEAS	DEV	OUTTOL
LINER H CL7	0.0000	0.0010	0.0000	0.0001	0.0001	0.0000

⌖	IN	LOC7 - CL7 LINER H					
AX	NOMINAL	+TOL	-TOL	MEAS	DEV	OUTTOL	BONUS
Y	6.4093	0	0	6.4089	-0.0004	0	0
Z	1.3100	0	0	1.3100	0.0000	0	0
DF	1.5755	0.0005	0.0000	1.5757	0.0002	0.0000	0.0002
RN	0.0000	0.0005	0.0000	0.0002	0.0002	0.0000	0
TP	MMC	0.0030	0	0	0.0007	0.0000	0.0002

FCFPERP8	IN	⊥ Ø0.001 Ⓢ A				
Feature	NOMINAL	+TOL	-TOL	MEAS	DEV	OUTTOL
CL6 PM J	0.0000	0.0010	0.0000	0.0002	0.0002	0.0000

⌖	IN	LOC14 - CL6 J					
AX	NOMINAL	+TOL	-TOL	MEAS	DEV	OUTTOL	BONUS
Y	4.7219	0	0	4.7217	-0.0002	0	0
Z	4.6720	0	0	4.6715	-0.0004	0	0
DF	3.3119	0.0003	0.0003	3.3116	-0.0003	0.0000	0.0000
RN	0.0000	0.0006	0.0000	0.0005	0.0005	0.0000	0
TP	MMC	0.0030	0	0	0.0010	0.0000	0.0000

FCFPERP7	IN	⊥ Ø0.001 Ⓢ A				
Feature	NOMINAL	+TOL	-TOL	MEAS	DEV	OUTTOL
DR	0.0000	0.0010	0.0000	0.0000	0.0000	0.0000

⌖	IN	LOC13 - CL8 DIA DR					
AX	NOMINAL	+TOL	-TOL	MEAS	DEV	OUTTOL	BONUS
Y	7.7993	0	0	7.7981	-0.0012	0	0
Z	0.0000	0	0	-0.0008	-0.0008	0	0
DF	1.9895	0.0005	0.0005	1.9899	0.0004	0.0000	0.0009
TP	MMC	0.0030	0	0	0.0029	0.0000	0.0009

OMB Control No 2120-0018 09/30/2007

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	10872638

4 Organization Name and Address		5 Work Order/Contract/Invoice Number
HONEYWELL INTERNATIONAL INC 111 SOUTH 34th STREET PHOENIX AZ 85072 PRODUCTION APPROVAL, PC413NM	M & M AEROSPACE HARDWARE, INC 10000 N W 15th TERRACE MIAMI FL 33172	7589524 001 Page 1 Of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch Number	12 Status/Work
001	BEARING	358027	N/A	4 EA	Lot# 0901040268 Expires: 12/01/2010 MLot:3467042363	NEW

13 Remarks AIRWORTHINESS APPROVAL
DIRECT SHIPMENT AUTHORIZATION - OCT 17 2008
Customer P.O. # BU0851

14 Certifies the items identifed above were manufactured in conformity to

[X] Approved design data and are in a condition for safe operation

[ ] Non-approved design data specified in Block 13

19 [ ] 14 CFR 43 9 Return to Service [ ] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Kerry L. Vogt	ODARF602216NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Kerry L. Vogt	Oct 02 2009		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 & 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

Paperwork Reduction Act Statement An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number associated with this collection of information is 2120-0018 Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at 800 Independence Ave SW, Washington, DC 20591, Attn Information Collection Clearance Officer, ABA-20

OMB Control No 2120-0018 09/30/2007

1 Approving National Aviation Authority/Country
FAA/United States

2
AUTHORIZED RELEASE CERTIFICATE
FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3 Form Tracking Number
10872638

4 Organization Name and Address
HONEYWELL INTERNATIONAL INC
111 SOUTH 34th STREET
PHOENIX AZ 85072
PRODUCTION APPROVAL, PC413NM

M & M AEROSPACE HARDWARE, INC
10000 N W 15th TERRACE
MIAMI FL 33172

5 Work Order/Contract/Invoice Number
7589524 001

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch Number	12 Status/Work
001	BEARING	358027	N/A	4 EA	Lot# 0901040268 Expires. 12/01/2010 MLot 3467042363	NEW

13 Remarks
AIRWORTHINESS APPROVAL
DIRECT SHIPMENT AUTHORIZATION - OCT 17 2008
Customer P.O. # BU0851

14 Certifies the items identified above were manufactured in conformity to

- [X] Approved design data and are in a condition for safe operation
- [ ] Non-approved design data specified in Block 13

19 [ ] 14 CFR 43 9 Return to Service [ ] Other regulation specified in Block 13
Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Kerry L Vogt	ODARF602216NM		
17 Name (Typed or Printed) Kerry L. Vogt	18 Date (m d y) Oct 02 2009	22 Name (Typed or Printed):	23 Date (m d y)

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, *it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified* in Block 1

Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

Paperwork Reduction Act Statement An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number associated with this collection of information is 2120-0018 Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at 800 Independence Ave SW, Washington, DC 20591, Attn Information Collection Clearance Officer, ABA-20

1 Approving National Aviation Authority/Country	2 AUTHORIZED RELEASE CERTIFICATE	3 Form Tracking Number 376672
FAA/UNITED STATES	FAA FORM 8130-3,AIRWORTHINESS APPROVAL TAG	Sales Order / Line / Work Order 18471 / 57 / 596116

4 OrganizationName BEARING INSPECTION, INC FAA Repair Station SP3R849L

Address A TIMKEN COMPANY
4422 CORPORATE CENTER DRIVE
LOS ALAMITOS CA-90720-2539 USA

5 P.O.,Contract,or Invoice Number AU6480 - 1

Customer No 43415

6 Item	7 Description	8 Part No	9 Eligibility *	10.Quantity	11 Serial/Batch No	12 Status/Work
1	GTCP331 ACCESSORY BALL BEARING	3860160-1	N/A	1	UA03-S1998-325	OVERHAULED

13 Remarks Return to service

Documents describing the actual work performed are on file at BEARING INSPECTION, INC

BEARING REFURBISHED/RECONDITION IN ACCORDANCE WITH FAA APPROVED PRODUCT SPEC C747 REV L AND INSPECTED IAW HONEYWELL GTCP331 EM, 49-23-49 REV 28 MAR/31/2009

14. certifies the item identified above were manufactured in conformity to

☐ Approved design and are in a condition for safe operation.

☐ Non-approved design data specified in Block 13

19 ☒ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in block 13 , the work identified in Block 12 and described in block 13, was accomplished with Title 14, Code of Federal Regulations, part 43 and in respect to the work, the items are approved for return to service

15.Authorized Signature	16.Approval Authorization No:	20 Authorized Signature	21 Approval/Certificate No
			SP3R849L
17. Name(Typed or Printed) N/A	18.Date(d/m/y) N/A	22 Name (typed or Printed) GREGORY A FAJARDO	23. Date(m/d/y) JUL/13/2009

User/Installer Responsibilities

It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs works in accordance with the national regulations of an airworthiness authority different than the Airworthiness Authority of the country specified in Block 1 it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Block 14 and 19 do not constitute installation certification In all cases,aircraft maintenance records must contain an installation certification issued in accordance with the national regulation by the user/installer before the aircraft may be flown

OMB Control No. 2120-0018 09/30/2007

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	10869575

4 Organization Name and Address.		5 Work Order/Contract/Invoice Number
HONEYWELL INTERNATIONAL INC 111 SOUTH 34th STREET PHOENIX AZ 85072 PRODUCTION APPROVAL; PC413NM	M & M AEROSPACE HARDWARE, INC 10000 N W. 15th TERRACE MIAMI FL 33172	7564553 001 Page 1 Of 1

6 Item.	7 Description	8 Part Number	9. Eligibility *	10 Quantity	11 Serial/Batch Number	12 Status/Work.
001	BEARING	3860495-1	N/A	2 EA	Lot# 0909009302 MLot 41091	NEW

13 Remarks AIRWORTHINESS APPROVAL
DIRECT SHIPMENT AUTHORIZATION - OCT 17 2008
Customer P.O. # BU0841

14 Certifies the items identified above were manufactured in conformity to

- [X] Approved design data and are in a condition for safe operation
- [ ] Non-approved design data specified in Block 13

19 [ ] 14 CFR 43 9 Return to Service [ ] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Kerry L. Vogt	ODARF602216NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23. Date (m d y)**
Kerry L. Vogt	Sep 16 2009		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

Paperwork Reduction Act Statement An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number associated with this collection of information is 2120-0018 Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at: 800 Independence Ave. SW, Washington, DC 20591, Attn. Information Collection Clearance Officer, ABA-20

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number 382858
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA FORM 8130-3,AIRWORTHINESS APPROVAL TAG**	Sales Order / Line / Work Order **18945 / 7 / 606185**

4 Organization Name	**BEARING INSPECTION, INC**	FAA Repair Station SP3R849L	5 P O ,Contract,or Invoice Number	Customer No
Address	**A TIMKEN COMPANY** 4422 CORPORATE CENTER DRIVE LOS ALAMITOS CA-90720-2539 USA		**AU6822 - 1**	**43415**

6 Item	7 Descnption	8 Part No	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
1	GTCP331 ACCESSORY ROLLER BEARING	3860173-1	N/A	1	UA05S1998-110	OVERHAULED

13 Remarks Return to service

Documents describing the actual work performed are on file at BEARING INSPECTION, INC

BEARING REFURBISHED/RECONDITIONED IN ACCORDANCE WITH FAA APPROVED PRODUCT SPEC C747 REV L AND INSPECTED IAW HONEYWELL GTCP331 EM, SEC 49-23-49, REV 29 JUN/30/2009.

14 certifies the item identified above were manufactured in conformity to:	19 [X] 14 CFR 43 9 Return to Service [ ] Other regulation specified in Block 13
[ ] Approved design and are in a condition for safe operation [ ] Non-approved design data specified in Block 13	Certifies that unless otherwise specified in block 13 , the work identified in Block 12 and described in block 13, was accomplished with Title 14, Code of Federal Regulations, part 43 and in respect to the work, the items are approved for return to service

15 Authorized Signature	16 Approval Authorization No	20 Authorized Signature	21 Approval/Certificate No
		Mike Lambert	**SP3R849L**
17 Name(Typed or Printed) N/A	18.Date(d/m/y). N/A	22 Name (typed or Printed) **MIKE A LAMBERT**	23 Date(m/d/y) **SEP/28/2009**

User/Installer Responsibilities

It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs works in accordance with the national regulations of an airworthiness authority different than the Airworthiness Authority of the country specified in Block 1 it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Block 14 and 19 do not constitute installation certification In all cases,aircraft maintenance records must contain an installation certification issued in accordance with the national regulation by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA FORM 8130-3,AIRWORTHINESS APPROVAL TAG**	**377816** Sales Order / Line / Work Order **18663 / 13 / 598715**

4 Organization Name **BEARING INSPECTION, INC** FAA Repair Station SP3R849L

Address **A TIMKEN COMPANY**
4422 CORPORATE CENTER DRIVE
LOS ALAMITOS CA-90720-2539 USA

5 P O ,Contract,or Invoice Number **AU6563 - 1**

Customer No **43415**

6 Item	7 Description	8 Part No	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
1	GTCP331 ACCESSORY ROLLER BEARING	3860173-1	N/A	1	UA05S1998-560	OVERHAULED

13 Remarks Return to service

Documents describing the actual work performed are on file at BEARING INSPECTION, INC.

BEARING REFURBISHED/RECONDITIONED IN ACCORDANCE WITH FAA APPROVED PRODUCT SPEC. C747 REV L AND INSPECTED IAW HONEYWELL GTCP331 EM, SEC 49-23-49, REV 29 JUN/30/2009

14. certifies the item identified above were manufactured in conformity to

☐ Approved design and are in a condition for safe operation

☐ Non-approved design data specified in Block 13

19. ☒ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in block 13 , the work identified in Block 12 and described in block 13, was accomplished with Title 14, Code of Federal Regulations, part 43 and in respect to the work, the items are approved for return to service

15.Authorized Signature	16.Approval Authorization No	20 Authorized Signature	21 Approval/Certificate No
			SP3R849L
17 Name(Typed or Printed) **N/A**	18 Date(d/m/y) **N/A**	22 Name (typed or Printed) **LEON E PEREZ**	23 Date(m/d/y) **JUL/27/2009**

User/Installer Responsibilities

It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs works in accordance with the national regulations of an airworthiness authority different than the Airworthiness Authority of the country specified in Block 1 it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Block 14 and 19 do not constitute installation certification In all cases,aircraft maintenance records must contain an installation certification issued in accordance with the national regulation by the user/installer before the aircraft may be flown

AW2427

OMB Control No 2120-0018
09/30/2007

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890000668265Y14 83355063-10

4 Organization Name and Address				5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PT1222NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034		AW2307 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	GEARSHAFT AY SPUR, B	3860180-6	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

THIS PART IS A SUBCOMPONENT OF A TSO AUTHORIZATION
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

14 Certifies the items identified above were manufactured in conformity to

- [X] Approved design data and are in a condition for safe operation
- [ ] Non-approved design data specified in Block 13

19 [ ] 14 CFR 43 9 Return to Service [ ] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Gabriela Capatina	ODARF602216NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Gabriela Capatina	**JUL 22 2009**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/Installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

FAA form 8130 - 3 (6-01) * Installer must cross check eligibility with applicable technical data NSN 0052 - 00 - 012 - 9005

Paperwork Reduction Act Statement
An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number associated with this collection of information is 2120-0018
Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at 800 Independence Ave SW, Washington, DC 20591, Attn Information Collection Clearance Officer, ABA-20

OMB Control No 2120-0018
09/30/2007

1 Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	20090923D624-6788630

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
Dixie Aerospace, Inc – 473 Dividend Drive Peachtree City, GA 30269 U S A. PQ1630CE	BU0845

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	BEARING, BALL	358024WD	N/A	2	291061/01	NEW
2	BEARING, BALL	3614423-1WD	N/A	1	309277, Serial No SH10636	NEW
3	BEARING, BALL	892576-1WD	N/A	3	N/A	NEW

13. Remarks:

AIRWORTHINESS APPROVAL – For Domestic Shipments Only

For complete eligibility, see www wencor com

Item 1 DCN B05089

Item 2 DCN A76366A

Item 3 DCN 856886

14 Certifies the items identified above were manufactured in conformity to:

☑ Approved design data and are in a condition for safe operation.
☐ Non-approved design data specified in Block 13.

19: ☐ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
	DARF830583CE	N/A	N/A
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
G. Randall Burton	SEP/23/2009	N/A	N/A

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

OMB Control No 2120-0018
09/30/2007

1. Approving National Aviation Authority/Country:	2.	3 Form Tracking Number.
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130–3, AIRWORTHINESS APPROVAL TAG	20090806D511-6563160

4. Organization Name and Address·	5. Work Order/Contract/Invoice Number
Dixie Aerospace, Inc – 473 Dividend Drive Peachtree City, GA 30269 U S A PQ1630CE	BU0829

6. Item	7. Description·	8. Part Number.	9 Eligibility: *	10. Quantity:	11. Serial/Batch Number	12. Status/Work:
1	BEARING, BALL, ANNULAR	358024WD	N/A	4	See Below	NEW
2	BEARING, BALL, ANNULAR	3614423-1WD	N/A	2	10633, 10634	NEW

13. Remarks·

AIRWORTHINESS APPROVAL – For Domestic Shipments Only

For complete eligibility, see www wencor com

Item 1 Lot/Batch Number – 291061/01 (DCN B05089)

Item 2: Lot/Batch Number – 309277 (DCN A76366-A)

14. Certifies the items identified above were manufactured in conformity to:	19. ☑ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13
☑ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13.	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15 Authorized Signature·	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
	DARF830583CE	N/A	N/A
17. Name (Typed or Printed):	**18 Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
G Randall Burton	AUG/06/2009	N/A	N/A

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

BU0828

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3479610

4 Organization Name and Address: WENCOR WEST, INC CAGE Code - 26647
1625 North 1100 West, Springville, Utah 84663-0514
Phone. (801)489-2000 Fax: (801)489-2199 ARINC/SITA SLCWEXD (PQ1370NM)

5 Work Order/Contract/Invoice Number: BU0526

6. Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch Number	12 Status/Work
1	BEARING,BALL	358457-1WE	N/A	20	See Below	NEW

13 Remarks
1 S/N N.A BAT N/A DCN A15777
See www wancor com for complete eligibility

Not for Export Outside of the United States of America

14 Certifies the items identified above were manufactured in conformity to
☒ Approved design data and are in a condition for safe operation
☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13
Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Bryan S Wood	ODARF601415NM	N/A	N/A
17 Name (Typed or Printed)	**18 Date (m/d/y)**	**22 Name (Typed or Printed)**	**23 Date (m/d/y)**
Bryan S. Wood	NOV/15/2007	N/A	N/A

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1 ApprovingNationalAviation Authority/Country	2	3 Form Tracking Number 384234
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA FORM 8130-3,AIRWORTHINESS APPROVAL TAG**	Sales Order / Line / Work Order **18945 / 17 / 607537**

4 OrganizationName **BEARING INSPECTION, INC** FAA Repair Station SP3R849L
Address **A TIMKEN COMPANY**
4422 CORPORATE CENTER DRIVE
LOS ALAMITOS CA-90720-2539 USA

5 P O ,Contract,or Invoice Number **AU6856 - 1**
Customer No **43415**

6 Item	7 Description	8 Part No	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
1	GTCP331 ACCESSORY BALL BEARING	3605094-1	N/A	1	UA06S1998-216	OVERHAULED

13 Remarks Return to service

Documents describing the actual work performed are on file at BEARING INSPECTION, INC

BEARING REFURBISHED/RECONDITIONED IN ACCORDANCE WITH FAA APPROVED PRODUCT SPEC C747 REV L AND INSPECTED IAW HONEYWELL GTCP331 EM, SEC 49-23-49, REV 30 SEP/30/2009

14 certifies the item identified above were manufactured in conformity to:
☐ Approved design and are in a condition for safe operation
☐ Non-approved design data specified in Block 13.

19 ☒ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13
Certifies that unless otherwise specified in block 13 , the work identified in Block 12 and described in block 13, was accomplished with Title 14, Code of Federal Regulations, part 43 and in respect to the work, the items are approved for return to service

15 Authorized Signature	16.Approval Authorization No	20 Authorized Signature	21 Approval/Certificate No
		Mike Lambert	SP3R849L
17 Name(Typed or Printed) N/A	18.Date(d/m/y) N/A	22 Name (typed or Printed) **MIKE A LAMBERT**	23 Date(m/d/y) **OCT/12/2009**

User/Installer Responsibilities

It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs works in accordance with the national regulations of an airworthiness authority different than the Airworthiness Authority of the country specified in Block 1 it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Block 14 and 19 do not constitute installation certification In all cases,aircraft maintenance records must contain an installation certification issued in accordance with the national regulation by the user/installer before the aircraft may be flown

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA FORM 8130-3,AIRWORTHINESS APPROVAL TAG**	**384137** Sales Order / Line / Work Order **18945 / 16 / 607536**

4 Organization Name Address	5 P O ,Contract,or Invoice Number	Customer No
BEARING INSPECTION, INC. FAA Repair Station SP3R849L **A TIMKEN COMPANY** 4422 CORPORATE CENTER DRIVE LOS ALAMITOS CA-90720-2539 USA	**AU6855 - 1**	**43415**

6 Item	7 Description	8 Part No	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
1	GTCP331 ACCESSORY BALL BEARING	**3605094-1**	**N/A**	**1**	**UA06S1998-215**	**OVERHAULED**

13 Remarks Return to service

Documents describing the actual work performed are on file at BEARING INSPECTION, INC.

BEARING REFURBISHED/RECONDITIONED IN ACCORDANCE WITH FAA APPROVED PRODUCT SPEC C747 REV L AND INSPECTED IAW HONEYWELL GTCP331 EM, SEC 49-23-49, REV 30 SEP/30/2009.

14 certifies the item identified above were manufactured in conformity to:	19 [X] 14 CFR 43 9 Return to Service [ ] Other regulation specified in Block 13
[ ] Approved design and are in a condition for safe operation. [ ] Non-approved design data specified in Block 13	Certifies that unless otherwise specified in block 13 , the work identified in Block 12 and described in block 13, was accomplished with Title 14, Code of Federal Regulations, part 43 and in respect to the work, the items are approved for return to service

15 Authorized Signature.	16 Approval Authorization No	20 Authorized Signature	21 Approval/Certificate No
		Mike Lambert	**SP3R849L**
17 Name(Typed or Printed) **N/A**	18.Date(d/m/y) **N/A**	22 Name (typed or Printed) **MIKE A LAMBERT**	23 Date(m/d/y) **OCT/09/2009**

User/Installer Responsibilities

It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs works in accordance with the national regulations of an airworthiness authority different than the Airworthiness Authority of the country specified in Block 1 it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Block 14 and 19 do not constitute installation certification In all cases,aircraft maintenance records must contain an installation certification issued in accordance with the national regulation by the user/installer before the aircraft may be flown

N/A

N/A

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	6514560

4 Organization Name and Address: WENCOR WEST, INC CAGE Code - 26647
1625 North 1100 West, Springville, Utah 84663-0514
Phone: (801)489-2000 Fax: (801)489-2199 ARINC/SITA SLCWEXD (PQ1370NM)

5. Work Order/Contract/Invoice Number: BU0824

6. Item.	7 Description	8 Part Number.	9. Eligibility.*	10 Quantity	11 Serial/Batch Number	12 Status/Work
1	BEARING,BALL	358457-1WE	N/A	4	S/N N/A BAT N/A	NEW
2	BEARING BALL, O	3860496-1WE	N/A	2	S/N N/A BAT N/A SN 00189, 190 DS 7/28/09	NEW

13 Remarks*
1 DCN 831823
2 DCN 813307
See www wencor com for complete eligibility

Not for Export Outside of the United States of America

14 Certifies the items identified above were manufactured in conformity to
- [x] Approved design data and are in a condition for safe operation
- [ ] Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13
Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature.	21 Approval/Certificate No
	ODARF601415NM	N/A	N/A
17. Name (Typed or Printed).	**18 Date (m/d/y)**	**22 Name (Typed or Printed)**	**23 Date (m/d/y)**
David W. Sturm	JUL/27/2009	N/A	N/A

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

FAA Form 8130-3 (6-01) *Installer must cross check eligibility with applicable technical date NSN. 0052-00-012-9005

BU0826

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890000154205Y14 82447196-20

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street PHOENIX AZ 85072	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	Production Approval PT1222NM	42315-000 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	GEAR SPUR FAN, BOEIN	3860169-5	N/A	1	N/A	NEW

13 Remarks AIRWORTHINESS APPROVAL- FOR DOMESTIC SHIPMENTS ONLY

THIS PART IS A SUBCOMPONENT OF A TSO AUTHORIZATION
ALL SERIALIZATION NOT REFERENCED HERE IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
Margo Marion	**ODARF602216NM**		
17 Name (Typed or Printed)	**18 Date (m/d/y)**	**22 Name (Typed/Printed)**	**23 Date (m/d/y)**
Margo Marion	**JUL/18/2008**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/Installer performs work in accordance with national regulations of an Airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the Airworthiness authority of the country specified in Block1 Statements in Block 14 & 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification isssued in accordance with the national regulations by the User/Installer before the aircraft may be flown

AU 6847

OMB Control No 2120-0018
09/30/2007

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890000715973Y15 304574022

4 Organization Name and Address		5 Work Order/Contract/Invoice Number
Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	Repair Station ZN3R030M	N/A 304526522 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	PUMP ASSEMBLY GENERATOR SCAVENGE	3880200-6	N/A	1	N/A	OVERHAULED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH
ATD CMM 49-27-15 Rev 3, MAR/15/1995

Additional Information

Alternate SN outgoing A-1505
SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR
TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER
8130 21

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

HONEYWELL CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND, WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER EASA 145 4136

14 Certifies the items identified above were manufactured in conformity to		19 ☒ 14 CFR 43 9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service	
15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature Renoo Ziegler	21 Approval/Certificate No **ZN3R030M**
17 Name (Typed or Printed)	18 Date (m d y)	22 Name (Typed or Printed) **Renoo Ziegler**	23 Date (m d y) **AUG 21 2009**

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases aircraft maintanance records must contain an installation certfication issued in accordance with the national regulations by the user/installer before the aircraft may be flown

FAA form 8130 - 3 (6-01) * Installer must cross check eligibility with applicable technical data NSN 0052 - 00 - 012 - 9005

Paperwork Reduction Act Statement
An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number associated with this collection of information is 2120-0018
Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at 800 Independence Ave SW Washington, DC 20591, Attn Information Collection Clearance Officer, ABA-20

Phoenix - Sky Harbor
Honeywell International Inc
1944 E Sky Harbor Circle
PHOENIX AZ 85034

Honeywell

Repair Station ZN3R030M

Date 21 AUG 2009

Configuration And Findings Evaluation

Repair Order: 2009-304526522-001 304574022 **Customer.** 330407 CHROMALLOY ARIZONA

Customer P/O: AW2309 **Orig Cust:**

Part Number. 3880200-6 **Part Desc:** PUMP ASSEMBLY GENERATOR SCAVENGE **Serial No:**

Mods:

Series/Issue/Amdts:

Quantity: 1 **Ship Date.** **Received Date:** 21 JUL 2009

Aircraft tail #: **Aircraft S/N#:** **Date on:** **Date off:**

Model #: APU 331-200/250 **Engine S/N:** **Alternate S/N.**

TIMES / CYCLES

Time Since New: **Cycles Since New:**

Time Since Overhaul: **Cycles Since Overhaul:**

Time Since Repair: **Cycles Since Repair:**

CUSTOMER REASON FOR RETURN

storefront exchange

GENERAL CONDITION AS RECEIVED (HIDDEN DAMAGE)

Condition Received Text

Dirty and oily

Reason for return Code OTHER, DESCRIBED IN REMARKS

Removal Type Scheduled

DETAIL DISASSEMBLY / EVALUATION FINDINGS

Failure Description:

Findings:

Related Area: **Non-conformance:** WORN OR WORN OUT **Recurrent Failure:** No

Failed Part	Part Name	Condition:	Primary Failure
3880267-1	SEAL PL ENCSD	Worn	Yes

SERVICE BULLETINS / AUTHORIZING DOCUMENTS

Authorizing Technical Document

Doc# CMM 49-27-15 Rev 3 Date. 03/15/1995

WORK PERFORMED / COMMENTS TO CUSTOMER

Workscope Performed / Summary of Actions Taken

Overhauled, tested and returned to service

Action Taken Code Overhaul

Customer Confirmed Removal Reason:

Evaluation Type Evaluated - Minor Fault Found

Phoenix - Sky Harbor
Honeywell International Inc
1944 E Sky Harbor Circle
PHOENIX AZ 85034

Honeywell

Repair Station ZN3R030M

Date 21 AUG 2009

Configuration And Findings Evaluation

Repair Order: 2009-304526522-001
304574022

Customer. 330407 CHROMALLOY ARIZONA

Customer P/O: AW2309

Orig Cust:

Part Number. 3880200-6

Part Desc: PUMP ASSEMBLY GENERATOR SCAVENGE

Serial No:

Mods:

Series/Issue/Amdts:

Quantity: 1

Ship Date.

Received Date: 21 JUL 2009

FINAL CONFIGURATION **Part No** 3880200-6 **S/N:**

Mods.

Series/Issue/Amdts:

MECHANIC/ANALYST Michael Mazurowski **DATE:** 13 AUG 2009

Acceptance Test Data Summary Sheet

Honeywell

Part Number: 3880200-6 **Part Name** PUMP ASSEMBLY GENERATOR SCAVENGE

Serial Number:

Insp Lot Number: 890000705114 **Order Number:** 5002733344

General Info

General Information & Test Set Up	Refer to technical data for all test condition requirements Specifications Number of nonconforming units	Result	NV

Test Point 1 - Sea Level

Oil Inlet Temperature	Specifications 65 115 °F	Result 85	A
Pump Speed	Specifications 8045 8085 rpm	Result 8069	A
Pressure Pump, Inlet Pressure - TP1	Specifications 28 30 InHgA	Result 29	A
Pressure Pump, Discharge Pressure	Specifications 20 40 psig	Result 30	A
Oil Flow (GPM) - TP1	Specifications > = 8 3 GALMIN	Result 2116 0	A
Oil Flow (GPM) - TP1	Specifications > = 8 3 GALMIN	Result 10 1	A

Test Point 2 - Altitude

Oil Flow (GPM) TP2	Specifications > = 6 3 GALMIN	Result 8.9	A
Oil Flow (Hz) - TP2	Specifications No specifications	Result 1866	A
Pressure Pump, Discharge Pressure	Specifications 20 40 psig	Result 30	A
Pressure Pump, Inlet Pressure - TP2	Specifications 13 15 InHgA	Result 14	A
Pump Speed	Specifications 8045 8085 rpm	Result 8069	A
Oil Inlet Temperature	Specifications 65 115 °F	Result 85	A

Final Audit

Final Test	Specifications Type of Test	Result 0040 Final	A
Comments	Specifications Yes/No	Result 12 No	A

Unit Result: ACCEPTED

Test Technician E031473 Test Date 08/14/2009
Time 11 58 57

A = Accepted R = Rejected NV = No Valuation

OMB Control No 2120-0018
09/30/2007

1. Approving National Aviation Authority/Country:	2	3 Form Tracking Number*
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	20090701D441-6395980

4. Organization Name and Address*	5. Work Order/Contract/Invoice Number*
Dixie Aerospace, Inc. – 473 Dividend Drive Peachtree City, GA 30269 U S A PQ1630CE	BU0808

6 Item.	7. Description*	8. Part Number	9. Eligibility: *	10 Quantity*	11 Serial/Batch Number*	12. Status/Work
1	BEARING, BALL, ANNULAR	358042WD	N/A	10	See Below	NEW
2	BEARING, BALL, ANNULAR	3614423-1WD	N/A	5	10597, 10629, 10628, 10583, 10600	NEW

13 Remarks*

AIRWORTHINESS APPROVAL – For Domestic Shipment Only

For complete eligibility, see www wencor com

Item 1 Lot/Batch Number – 291061/01 (DCN B05089)

Item 2 Lot/Batch Number – 309277 (DCN A76366-A)

14. Certifies the items identified above were manufactured in conformity to:	19. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13
☑ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13.	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15 Authorized Signature:	16 Approval/Authorization No.:	20. Authorized Signature*	21. Approval/Certificate No.:
	DARF830583CE	N/A	N/A
17. Name (Typed or Printed):	**18 Date (m/d/y):**	**22. Name (Typed or Printed)***	**23. Date (m/d/y)***
G Randall Burton	JUL/01/2009	N/A	N/A

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

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Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	10862163

4 Organization Name and Address		5 Work Order/Contract/Invoice Number
HONEYWELL INTERNATIONAL INC 111 SOUTH 34th STREET PHOENIX AZ 85072 PRODUCTION APPROVAL, PT1222NM	M & M AEROSPACE HARDWARE, INC 10000 N W 15th TERRACE MIAMI FL 33172	7507637 003 Page 1 Of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial/Batch Number	12 Status/Work.
001	WASHER	3610875-2	N/A	2 EA	Lot# 0812018120 MLot WO-01493/1 0	NEW

13 Remarks

AIRWORTHINESS APPROVAL
DIRECT SHIPMENT AUTHORIZATION - OCT 17 2008
Customer P.O # BU0827

This part is a subcomponent of a TSO authorization

14 Certifies the items identifed above were manufactured in conformity to

- [X] Approved design data and are in a condition for safe operation
- [ ] Non-approved design data specified in Block 13

19 [ ] 14 CFR 43 9 Return to Service [ ] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
David Damian	ODARF602216NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
David Damian	Aug 06 2009		

User/Installer Responsibilities

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Paperwork Reduction Act Statement An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number associated with this collection of information is 2120-0018 Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at 800 Independence Ave SW Washington DC 20591 Attn Information Collection Clearance Officer ABA-20

1 Approving National Aviation Authority/Country	2 AUTHORIZED RELEASE CERTIFICATE	3 Form Tracking Number 383874
FAA/UNITED STATES	FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	Sales Order / Line / Work Order: 18945 / 19 / 607539

4 OrganizationName	BEARING INSPECTION, INC.	FAA Repair Station SP3R849L	5 P O ,Contract,or Invoice Number / Customer No
Address	A TIMKEN COMPANY 4422 CORPORATE CENTER DRIVE LOS ALAMITOS CA-90720-2539 USA		AU6850 - 1 / 43415

6 Item	7 Description	8 Part No	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
1	GTCP331 ACCESSORY ROLLER BEARING	3860158-1	N/A	1	UA06S1998-201	OVERHAULED

13 Remarks Return to service

Documents describing the actual work performed are on file at BEARING INSPECTION, INC.

BEARING REFURBISHED/RECONDITIONED IN ACCORDANCE WITH FAA APPROVED PRODUCT SPEC. C747 REV L AND INSPECTED IAW HONEYWELL GTCP331 EM, SEC 49-23-49, REV 30 SEP/30/2009

14. certifies the item identified above were manufactured in conformity to: ☐ Approved design and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13	19 ☒ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13 Certifies that unless otherwise specified in block 13 , the work identified in Block 12 and described in block 13, was accomplished with Title 14, Code of Federal Regulations, part 43 and in respect to the work, the items are approved for return to service
15.Authorized Signature. / 16.Approval Authorization No.	20 Authorized Signature: Mike Lambert / 21 Approval/Certificate No: SP3R849L
17. Name(Typed or Printed): N/A / 18 Date(d/m/y): N/A	22 Name (typed or Printed): MIKE A LAMBERT / 23 Date(m/d/y): OCT/07/2009

User/Installer Responsibilities

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1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA FORM 8130-3,AIRWORTHINESS APPROVAL TAG**	**383060** Sales Order / Line / Work Order **18945 / 6 / 606170**

4 Organization Name Address	FAA Repair Station	5 P O ,Contract,or Invoice Number	Customer No
BEARING INSPECTION, INC. **A TIMKEN COMPANY** 4422 CORPORATE CENTER DRIVE LOS ALAMITOS CA-90720-2539 USA	SP3R849L	**AU6818 - 1**	**43415**

6 Item	7 Description	8 Part No	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
1	GTCP331 ACCESSORY ROLLER BEARING	**3860158-1**	**N/A**	**1**	**UA05S1998-397**	**OVERHAULED**

13 Remarks Return to service

Documents describing the actual work performed are on file at BEARING INSPECTION, INC

BEARING REFURBISHED/RECONDITIONED IN ACCORDANCE WITH FAA APPROVED PRODUCT SPEC C747 REV L AND INSPECTED IAW HONEYWELL GTCP331 EM, SEC 49-23-49, REV 29 JUN/30/2009.

14 certifies the item identified above were manufactured in conformity to	19	
☐ Approved design and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13	[X] 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13 Certifies that unless otherwise specified in block 13 , the work identified in Block 12 and described in block 13, was accomplished with Title 14, Code of Federal Regulations, part 43 and in respect to the work, the items are approved for return to service	
15 Authorized Signature	16 Approval Authorization No:	20 Authorized Signature Mike Lambert
17 Name(Typed or Printed) N/A	18 Date(d/m/y) N/A	22 Name (typed or Printed) **MIKE A LAMBERT**

21 Approval/Certificate No	23 Date(m/d/y)
SP3R849L	**SEP/29/2009**

User/Installer Responsibilities

It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part/component/assembly

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COAS BY SUBASSEMBLY REASON: REMOVAL REQUESTOR NAME: REMOVAL
ORGANIZATION:

WORK CENTER: 551

SERIAL NBR	ET	MT	NAME	PWR RTG	CUST
62332		V	APU331	200E	UA

ORDER NUMBER
V578

COAS FOR MODULE TYPE A * SERIAL NUMBER P209 MODULE NAME: GEARBOX ASSMBLY WORK CENTER: 551

COA NUMBER	COA CAT	MODULE/ FUNC NBR	UNIT SERIAL	UNIT COA STATUS	ISS	COMP	COA TITLE	COMPLETION DATE

*** NO COAS SCHEDULED FOR THIS UNIT ***

UNITED AIRLINES

GTCP331-200ER APU Engine Manual - Inspection and Condition Sheet

LOAD COMPRESSOR MODULE
60-49-25-00-00 ICS

DISTRIBUTION 551

ENGINE S/N 62697 VADE NO _____ CUSTOMER _____

MODULE ORDER NO: FV607 MODULE S/N: P-1902 MODULE F

REASON FOR REMOVAL _____

COMMENTS. _____

DISPOSITION CODES	E =	PART MEETS DETAIL PART EID REQUIREMENTS (ZERO TIME SINCE DETAIL PART INSPECTION)
	A =	EXPOSED AREA OF PART MEETS VISUAL REQUIREMENTS OF APPROPRIATE EID (CONTINUED TIME SINCE DETAIL PARTS INSPECTION)
	C =	PART ROUTED OR CORRECTIVE ACTION TAKEN
	ATA# S/L-SEQ	EID NUMBER [49 precedes numbers shown (49) 31 -XX] SECTION / LIST - SEQUENCE NUMBER
	OFF LOG FUNC#	STAMP TO INDICATE PART OFF-LOG FROM MODULE FUNCTION NUMBER

NOTE Sign off appropriate disposition code. More than one code may be signed

NOTE Indicate condition of unserviceable parts regardless of disposition

NOTE To clear parts not exposed, draw a line through the complete entry and stamp in the left margin

NOTE If part is routed on an R&R Tag, it is mandatory to stamp the applicable "E" or "A" Block and write "R&R" in the "C" Block Then complete the appropriate computer transaction

NOTE Parts having no specific EID will be visually inspected per 60-49-00-00 Book "0", Introduction, Section 4, A4

Module Inspection Guide

I _____ (1) Module inspected and found serviceable per EID 60-49-25-00-00 [ZERO Time Since Module Inspection (TSMI)] No parts removed from module No additional sign-off required

I I342 (2) Module partially or completely disassembled Removed parts and / or exposed areas inspected per appropriate EID (ZERO Time Since Detail Parts Inspection - TSDPI)

Control Date 20070329

ENGINE S/N 62697 ORDER NO FV607

E	A	C	ITEM NOMENCLATURE	ATA # S/L SEQ	OFFLOG FUNC #	ROUTING / CONDITION
			BEARING, THRUST	20-01-01		
				18-195	5760	
		I342	BEARING, ROLLER	20-01-01	I342	
				18-320	5746	EXPOSED
		I342	CARBON SEAL ASSY 2 EA	20-02-00	XXX	
				18-275	14367	1 EA EXPOSED
		I342	ROTOR, CARBON SEAL 2 EA	22-22-00	XXX	
				18-280	5747	1 EA EXPOSED
			RETAINER, BEARING	22-02-00	XXX	
				18-070	2276	
			ASSEMBLY, IGV	25-02-00		
				25-000	0988 I	
			HOUSING, BEARING	25-03-00	XXX	
				18-190	0992	
			COUPLING & SEAL	25-04-00	XXX	
				18-160	2251	
			SOUND ATTENUATOR	25-05-00	XXX	
				18-095	2275	
	I342		INSULATOR SHIELD	25-07-01	XXX	
				18-015	1227	
	I342		BACKSHROUD ASSY	25-08-00	XXX	
				18-010	5680	
	I342		SCROLL HOUSING	25-09-00	XXX	
				18-060	2243	
	I342		BELLCRANK	25-10-00	XXX	
				18-120	2239	
	I342		MOUNT, IGV ACTUATOR	25-11-00	XXX	
				18-130	2274	
			DIFFUSER	25-13-00	XXX	
				18-050	0990	
	I342		HOUSING, INLET	25-15-00	XXX	
				18-100	2272	
			IMPELLER	25-19-00		
				18-150	0989	
	I342		SHAFT	25-20-00	XXX	
				18-200	0991	

GTCP331-200ER APU Engine Manual - Inspection and Condition Sheet
LOAD COMPRESSOR MODULE

ENGINE S/N 62697 ORDER NO FV607

E	A	C	ITEM NOMENCLATURE	ATA # S/L SEQ	OFFLOG FUNC #	ROUTING / CONDITION
		I342	CARRIER, SEAL	25-21-00	XXX	
				18-220	2247	WORN
I342			CARRIER, SEAL	25-22-00	XXX	
				18-210	2248	
~~I342~~			SEAL ROTOR	25-23-00	XXX	
				18-170	5687	
I342			CARRIER, BEARING	25-32-00	XXX	
				18-040	2271	
	I342		COVER, ACTUATOR MOUNT	25-38-00	XXX	
				50-150	5754	
	I342		BRACKET, IGV ACTUATOR	25-39-00	XXX	
				50-160	5755	

I I342 (3)Check Inspection and Condition Sheet for completion

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA FORM 8130-3,AIRWORTHINESS APPROVAL TAG**	**383440** Sales Order / Line / Work Order **18945 / 12 / 606941**

4 Organization Name Address	FAA Repair Station	5 P O ,Contract,or Invoice Number	Customer No
BEARING INSPECTION, INC **A TIMKEN COMPANY** 4422 CORPORATE CENTER DRIVE LOS ALAMITOS CA-90720-2539 USA	SP3R849L	**AU6832 - 1**	**43415**

6 Item	7 Description	8 Part No	9 Eligibility *	10 Quantity	11 Serial/Batch No	12 Status/Work
1	GTCP331 ACCESSORY ROLLER BEARING	**3822099-1**	**N/A**	1	**MS051991410110**	**OVERHAULED**

13 Remarks Return to service

Documents describing the actual work performed are on file at BEARING INSPECTION, INC

BEARING REFURBISHED/RECONDITIONED IN ACCORDANCE WITH FAA APPROVED PRODUCT SPEC. C747 REV L AND INSPECTED IAW HONEYWELL GTCP331 EM, SEC 49-23-49, REV 30 SEP/30/2009

14 certifies the item identified above were manufactured in conformity to:		19 [X] 14 CFR 43 9 Return to Service [ ] Other regulation specified in Block 13 Certifies that unless otherwise specified in block 13 , the work identified in Block 12 and described in block 13, was accomplished with Title 14, Code of Federal Regulations, part 43 and in respect to the work, the items are approved for return to service	
[ ] Approved design and are in a condition for safe operation. [ ] Non-approved design data specified in Block 13			
15 Authorized Signature	16 Approval Authorization No	20 Authorized Signature	21 Approval/Certificate No **SP3R849L**
17 Name(Typed or Printed) N/A	18 Date(d/m/y) N/A	22 Name (typed or Printed) **GREGORY A FAJARDO**	23 Date(m/d/y) **OCT/02/2009**

User/Installer Responsibilities

It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs works in accordance with the national regulations of an airworthiness authority different than the Airworthiness Authority of the country specified in Block 1 it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Block 14 and 19 do not constitute installation certification In all cases,aircraft maintenance records must contain an installation certification issued in accordance with the national regulation by the user/installer before the aircraft may be flown

OMB Control No 2120-0018
09/30/2007

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890000855318Y14 5002986745-969980-2

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PC413NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9373368620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	ROTOR	3822057-3	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

SERIALIZATION NOT REFERENCED IN BLOCK 11 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC REFERENCE FAA ORDER 8130 21

14 Certifies the items identified above were manufactured in conformity to

- ☒ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 13

19 ☐ 14 CFR 43 9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval/Authorization No	20 Authorized Signature	21 Approval/Certificate No
	ODA-602216-NM		
17 Name (Typed or Printed)	**18 Date (m d y)**	**22 Name (Typed or Printed)**	**23 Date (m d y)**
Adrian Jacquez	**NOV 11 2009**		

User / Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1 Statements in Block 14 and 19 do not constitute installation certification In all cases, aircraft maintanance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

FAA form 8130 - 3 (6-01) * Installer must cross check eligibility with applicable technical data NSN 0052 - 00 - 012 - 9005

Paperwork Reduction Act Statement
An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number associated with this collection of information is 2120-0018
Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at. 800 Independence Ave SW, Washington, DC 20591, Attn Information Collection Clearance Officer, ABA-20

OMB Control No 2120-0018
09/30/2007

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890000855321Y14 5002986745-969980-5

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PC413NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9373368620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	SEAL CPRSR	3611175-1	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

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FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	890000855317Y14 5002986745-969980-1

4 Organization Name and Address			5 Work Order/Contract/Invoice Number
Honeywell International Inc 111 South 34th Street Phoenix AZ 85072	Production Approval PC413NM	Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	S9373368620 Page 1 of 1

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Quantity	11 Serial / Batch Number	12 Status / Work
001	CARRIER SEAL	3826125-1	N/A	1	N/A	NEW

13. Remarks :

AIRWORTHINESS APPROVAL

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- ☐ Non-approved design data specified in Block 13

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Adrian Jacquez	**NOV 11 2009**		

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* Installer must cross check eligibility with applicable technical data

Paperwork Reduction Act Statement
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Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at 800 Independence Ave SW, Washington, DC 20591, Attn Information Collection Clearance Officer, ABA-20

COAS BY SUBASSEMBLY REASON: REMOVAL REQUESTOR NAME: REMOVAL
ORGANIZATION:

WORK CENTER: 551

SERIAL NBR	ET	MT	NAME	PWR RTG	CUST
62697		V	APU331	200E	UA

ORDER NUMBER
V607

COAS FOR MODULE TYPE F - SERIAL NUMBER P-1802 MODULE NAME: DRIVEN COMP SE WORK CENTER: 551

COA NUMBER	COA CAT	MODULE/ FUNC NBR	UNIT SERIAL	UNIT COA STATUS	ISS	COMP	COA TITLE	COMPLETION DATE
5-9069	4	00958	1963	COMPLETED			757/767 GTCP331 APU IGV BUSHING-UPGRADE	06/23/00

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 NON-ROUTINE ACCOUNTABILITY

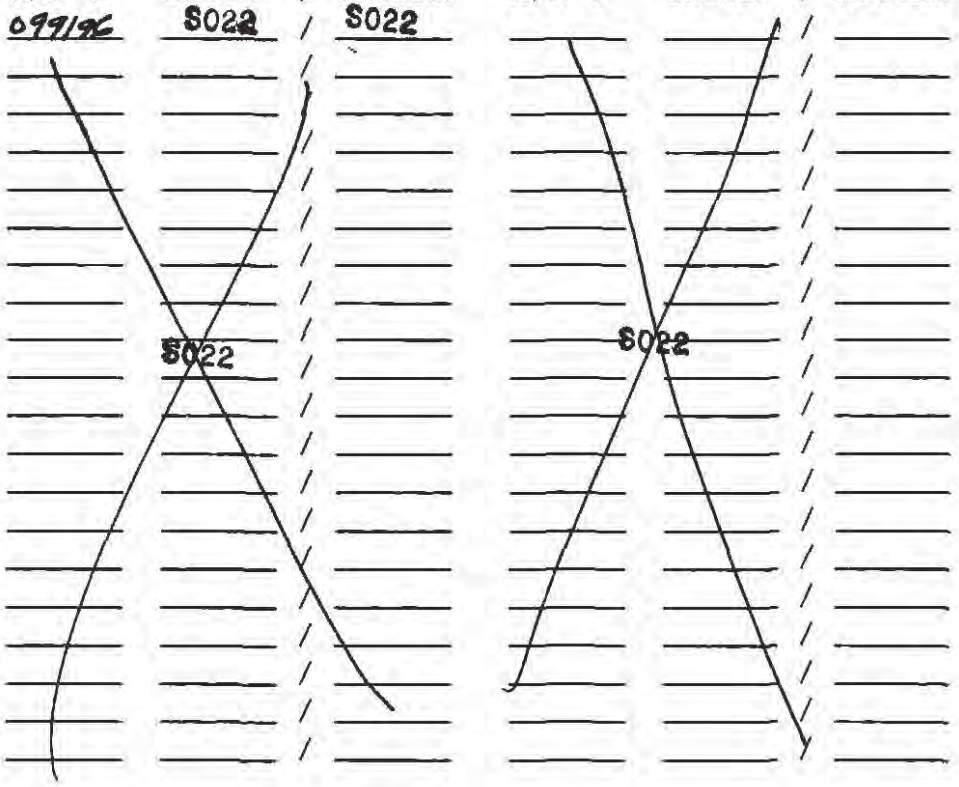
REV. 4/26/07

V607	62697	V0002.0
ORDER NO.	ENGINE NO	JOB NO

1. THE FOLLOWING NON-ROUTINE CARDS ARE SIGNED OFF CORRECTLY AND ACCOUNTED FOR. BLANK SPACES INDICATE NO NON-ROUTINES WERE ISSUED.

NOTE - STAMP ISSUE COLUMN TO INDICATE N/R # ENTERED. RETURN COLUMN INDICATES N/R COMPLETED.

SIGN-OFF			SIGN-OFF		
N/R #	ISSUE	/ RETURN	N/R #	ISSUE	/ RETURN
099/96	$022	/ $022			/



1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 NON-ROUTINE ACCOUNTABILITY

REV. 4/26/07

V607	62697	V0002.0
ORDER NO	ENGINE NO	JOB NO

2. THE FOLLOWING NON-ROUTINE CARDS ARE SIGNED OFF CORRECTLY AND ACCOUNTED FOR. BLANK SPACES INDICATE NO NON-ROUTINES WERE ISSUED.

NOTE - STAMP ISSUE COLUMN TO INDICATE N/R # ENTERED. RETURN COLUMN INDICATES N/R COMPLETED.

SIGN-OFF			SIGN-OFF		
N/R #	ISSUE	/ RETURN	N/R #	ISSUE	/ RETURN
		/			/

3022

END JOB V0002.0 REVISED 4/26/07

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, ENGINE TEST

REV. 4/26/07

V607	62697	V0103.0
ORDER NO.	ENGINE NO.	JOB NO

NOTE - RIGHT SIGN OFF COLUMN FOR JOB ISSUED
LEFT SIGN OFF COLUMN FOR JOB COMPLETED

NOTE - 'C' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A SPARE ENGINE C-CHECK ENGINE.

NOTE - 'B' INDICATES JOB CARD MUST BE ACCOUNTED FOR ON A BASE CHECK ENGINE.

NOTE - '#' INDICATES JOB CARD MUST BE ACCOUNTED FOR.

NOTE - '-' INDICATES JOB CARD IS NOT IN THE PRE-PRINTED LOG BUT IS MAINTAINED ONLINE AND CAN BE SELECTED TO BE PRINTED.

1. ALL JOBS THAT ARE 'X'ED OUT ARE NOT REQUIRED THIS VISIT

S022		V0002.0	- NON-ROUTINE ACCOUNTABILITY
		V0200.0	- ON-LOG INSPECTION
S022	S022	V1522.0	APU RELEASE FORM
	S022	V0103.5	DIAGNOSTIC RUN AND SERV. BEFORE TEST
S022	S022	V0104.0	SERVICE BEFORE TEST
S022	S022	V0105.1	ENGINE - TEST / RUN SHEET
	S022	V0105.2	PRESERVATION (ENGINE TEST) PART 1
S022	S022	V0106.0	SERVICE AFTER TEST
	S022	V0106.1	PRESERVATION (SAT) PART 2
S022	S022	V0106.5	SERVICE AFTER TEST LEAD CHECK
S022	S022	V0106.6	SERVICE AFTER TEST LEAD RECHECK
S022	S022	V0106.7	TEST CELL REPAIRS
S022	S022	V0110.0	APU ENGINE SHIPPING
	S022		

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 COVER PAGE, ENGINE TEST

REV. 4/26/07

V607	62697	V0103.0
ORDER NO	ENGINE NO.	JOB NO

S022

#2 NO COA S022

S022

2. IF APPLICABLE, VERIFY ALL COA'S SCHEDULED FOR THIS VISIT HAVE BEEN ACCOUNTED FOR.

3. MAINT. MANAGER OR DESIGNEE SIGNATURE VERIFIES LOG COMPLETE AND ACCOUNTED FOR. JOBS 'X'ED OUT WERE NOT REQUIRED THIS VISIT.

S022

SIGNATURE: _____ DATE: 12/17/09

END JOB V0103.0 REVISED 4/26/07

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 APU RELEASE FORM

REV. 10/26/09

V607	62697	V1522.0
ORDER NO	ENGINE NO	JOB NO

I209A I

1. REVIEW "ENGWRK" DISPLAY IN UNIMATIC TO ENSURE ALL ASSIGNED "ELR'S" ARE CLEARED AND ARE RECORDED IN APU AMIS FILE.

I209A I

2. ACCOMPLISH COMPUTER ENGINE FINAL RECORD CHECK TRANSACTION "ENGFRC".
INITIATE AND COMPLETE INSPECTION PORTION OF SERVICEABLE TAG.

L962 L

3. REPAIR AREA REVIEW DECISIONS HAVE BEEN ACCOMPLISHED. ENGINE IS READY FOR TEST.

8022

4. ALL JOB CARD AND NON-ROUTINE DOCUMENTATION IS CLEARED AND ACCOUNTED FOR.
FORWARD LOG PACKAGE TO ENGINE RECORDS.

L962 L

5. AFTER TEST RUN INFORMATION:
FINAL RUN IS GOOD, YES L962 NO_____ IF 'NO', LIST CAUSE OF REJECT. _____

6. FOREMAN OR DESIGNEE SIGNATURE VERIFIES THAT ENGINE IS SERVICEABLE, THERE ARE NO RESTRICTIONS AND ALL DEVIATIONS ARE CLOSED.

FOREMAN
OR DESIGNEE _____ DATE 12-16-09

551

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 APU RELEASE FORM

REV. 10/26/09

V607	62697	V1522.0
ORDER NO	ENGINE NO	JOB NO

END JOB V1522.0 REVISED 10/26/09

551

Page 2 of 2

L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 SERVICE BEFORE TEST

REV. 7/7/05

V607	62697	V0104.0
ORDER NO	ENGINE NO	JOB NO

NOTE - SET TORQUE WRENCH TO THE TORQUE VALUE SPECIFIED. IF NO TORQUE VALUE IS SPECIFIED, USE STANDARD TORQUE PER GN-8-0-2-14.

CAUTION - SCRAP ANY SELF LOCKING NUT WHICH CAN BE TURNED PAST ITS LOCKING FEATURE BY HAND.

-----PREPARE FOR TEST-----

M 6526 1. INSTALL REAR ENGINE MOUNTS. TORQUE TO 80-100 IN. LBS. AND SAFETY WIRE (.032 WIRE).

M 6526 2. INSTALL FUEL INLET QUICK DISCONNECT FITTING.

M 6526 3. INSTALL FUEL PRESSURE TEST TEE FITTING & ADAPTER TUBE.

M 6526 4. INSTALL REDUCER AND OIL TEMPERATURE BULB IN GEARBOX.

M 6526 5. INSTALL MAIN ELECTRICAL HARNESS ADAPTER.

M 6526 6. INSTALL PS3 TEST TUBE. HANG PCD2 TUBE IN CONVIENT LOCATION TO BE INSTALLED DURING SERVICE AFTER TEST.

M 6526 7. CONNECT STARTER HARNESS LEADS TO STARTER TERMINALS.
HOLD BOTTOM NUT WITH WRENCH, TORQUE POSITIVE TOP NUT 80 LB. IN.
HOLD BOTTOM NUT WITH WRENCH, TORQUE NEGATIVE TOP NUT 50 LB. IN.

M 6526 8. INSTALL TEST CELL EXAHUST PIPE, TORQUE CLAMP.

M 6526 9. REMOVE ALL SURPLUS PARTS FROM STALL SHELVES AND ROUTE TO PROPER DESTINATION.

M 6526 10. CLEAN ALL STALL SHELVES.

L962 L 11. VERIFY AND CLEAR ALL "ELR'S" BY REVIEWING "ENGWRK" DISPLAY IN UNIMATIC APU AMIS FILE.

551

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 SERVICE BEFORE TEST

REV. 7/7/05

V607	62697	V0104.0
ORDER NO	ENGINE NO	JOB NO

L962 L

12. LEAD CHECK - GENERAL SECURITY CHECK - PRIOR TO TEST. WRENCH CHECK.

END JOB V0104.0 REVISED 7/7/05

L962 L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

NOTE: DURING PERFORMANCE RUN I HAD A PROBLEM WITH IGV-TH ma READING. IN THE PASSED TEST RUNS, WHEN BLEED AIR IS REQUESTED IGV-TH WOULD READ 32ma. THEN IF BLEED AIR ~~ANT~~ AND HIS WAS REQUESTED, IGV WOULD READ 64ma. IF THAT WOULD NOT HAPPEN IGV ACTUATOR WAS REPLACED. ON THIS APU, DURING HIS RUN IGV-TH WAS ONLY 32ma. SO I INSTALLED 2 ~~ANT~~ MORE ACTUATOR. THE 3RD ACTUATOR UNDER PRESSURE ONLY WOULD READ 64ma.. SINCE APU IS PASSING ALL RE-

(OVER)

Job Instruction Card

331-200 ENGINE - TEST / RUN SHEET

REV. 10/10/08

V607	62697	V0105.1
ORDER NO	ENGINE NO	JOB NO

DATE OF TEST RUN 12-14-09 TEST CELL # 1

M 6526 1. INDICATE TYPE OF RUN. STAMP A, B, C, D OR E BELOW:

____ A. DIAGNOSTIC RUN

____ B. REPAIR RUN POWER SECTION REFURBISHMENT

6526 C. REPAIR RUN NO POWER SECTION REFURBISHMENT

____ D. IDLE LEAK CHECK

____ E. OIL CONSUMPTION

M 6526 2. INSTALL INLET TEMPERATURE FRAME.

M 6526 3. CHECK AND SERVICE OIL QUANTITY PRIOR TO ENGINE TEST. DUPLICATE SIGNOFF V0101.2

M 6526 4. INSTALL AND/OR CONFIRM ENGINE IS SECURED IN A RUN STAND.

M 6526 5. INSTALL VIBRATION EQUIPMENT.

M 6526 6. SECURE ENGINE IN TEST CELL PER ENGINE MANUAL TESTING SECTION 49-20-00.

M 6526 7. CHECK ENGINE AND CELL FOR CLEANLINESS AND SECURITY BEFORE ATTEMPTING ENGINE START. CHECK INLET AND EXHAUST FOR FOREIGN MATERIAL.

NOTE - TEST CELL OPERATOR HAS THE OPTION OF RUNNING THE APU IN MANUAL OR AUTO MODE.

M 6526 8. ACCOMPLISH ALTITUDE SIMULATION BLANKING PLATE PERFORMANCE TEST.

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

QUIREMENTS AND THERE IS NO LIMIT ON IGV-TH mea READING, I HAVE TO LET THIS APU PASS. ALSO EGINEER GEORGE SKOUFOS WAS CONTACTED, AND HE KNOWS ABOUT THIS SITUATION. Mike Sparil 05672 12-15-2009 6526

Job Instruction Card

331-200 ENGINE - TEST / RUN SHEET

REV. 10/10/08

V607	62697	V0105.1
ORDER NO.	ENGINE NO	JOB NO

M 6526 9. PERFORM TEST OPERATIONS PER ENGINE MANUAL TESTING SECTION 49-20-00.

DID COOLING FAN VIBRATION EXCEED 1.0 IPS?

_____ A. IF YES, REMOVE GENERATOR, INSTALL COVER PLATE AND REPEAT TEST. IF VIBRATION FALLS BELOW .6 IPS, REPLACE THE GENERATOR. IF VIBRATION IS HIGHER THAN .6 IPS, REPLACE THE COOLING FAN AND REPEAT TEST.

6526 B. IF NO, CONTINUE WITH TEST

M 6526 10. ACCOMPLISH A COMPRESSOR STALL CHECK PER ENGINE MANUAL TESTING SECTION 49-20-00, TO DETERMINE PNEUMATIC STABILITY OF THE LOAD COMPRESSOR. RECORD DCF RECORD DCF ACCOMPLISHED.

DCF 81-80

M 6526 11. ACCOMPLISH FLOW SENSOR ADJUSTMENT PER ENGINE MANUAL TESTING SECTION 49-20-00. RECORD THE DCF THAT THE SURGE VALVE CRACKS IN DUCT PRESSURIZATION MODE.

DP CRACK DCF 90-91

M 6526 12. ACCOMPLISH MES CRACK POINT CHECK PER ENGINE MANUAL TESTING SECTION 49-20-00. RECORD DCF THAT THE SURGE CONTROL VALVE CRACKS IN MES MODE.

MES CRACK DCF 98

6962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ENGINE - TEST / RUN SHEET

REV. 10/10/08

V607	62697	V0105.1
ORDER NO	ENGINE NO	JOB NO

L962 LM 6526 13. ----- CONTINUOUS AIRWORTHINESS ITEM -----
CHECK FUEL MANIFOLD HOSE TO ATOMIZER FOR EVIDENCE OF LEAKING.

(6526) OK
( ) NOT OK

NO EVIDENCE OF LEAKING ALLOWED.
LIST ALL REPAIRS ON JIC V0106.7.

M 6526 14. SMOKE CHECK - WITH ENGINE OPERATING AT NO-LOAD, CHECK EXHAUST STACK FOR SMOKE. IF EXCESSIVE BLACK SMOKE OR ANY WHITE SMOKE IS OBSERVED, CONTACT SFOEP PERFORMANCE.

M 6526 15. REMOVE FUEL TEST "T" FITTING AND RECONNECT FUEL LINE AND LEAK CHECK IT.

M 6526 16. NON ROUTINE CELL WORK ADJUSTED AIRFLOW SENSOR, AND SAFETIED. 6526

M 6526 17. CHECK OIL LEVEL AND SERVICE AS REQUIRED.

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

ITEM 18. ACTUATOR'S S/N 159C. Mira Spacil 05672.

ITEM 23. APU IS UAL'S. Mira Spacil 05672 6526

Job Instruction Card

331-200 ENGINE - TEST / RUN SHEET

REV. 10/10/08

V607	62697	V0105.1
ORDER NO	ENGINE NO	JOB NO

M 6526 18. PARTS CHANGED IN TEST CELL.

NOMENCLATURE	S/N OFF	S/N ON	REASON FOR REPLACEMENT
IGV ACTUATOR	MR49513	MR49513-6091	WRONG IGV-TH READING.

1962 LM 6526 19. CHECK MAIN OIL SCREEN FOR FOREIGN MATERIAL.
"NO METAL ALLOWED"
SCREEN CONDITION OKAY. YES 6526 NO ____
IF YES, REPLACE FILTER.
IF NO, CONTACT FOREMAN FOR RE-REVIEW OF APU.

NOTE - TAG AND ROUTE ALL PARTS CHANGED TO HOME SHOP.

M 6526 20. REMOVE VIBRATION EQUIPMENT.

M 6526 21. REMOVE INLET TEMPERATURE FRAME.

M 6526 22. IF ENGINE IS TO BE PRESERVED, REQUEST JIC V0105.2 FROM SCHEDULE CENTER.

APU IS TO BE PRESERVED YES____ NO____

6526
____.M X 23. CUSTOMER ENGINES ONLY: VIDEO BORESCOPE SERVICE AFTER TEST INSPECTION REQUIRED. REQUEST FROM SCHEDULE CENTER JIC V0108.0

1962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

331-200 ENGINE - TEST / RUN SHEET
REV. 10/10/08

V607	62697	V0105.1
ORDER NO	ENGINE NO.	JOB NO

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

6962 L 24. VERIFY JIC V0108.0 IS COMPLETE.

M 6526 25. MAKE TWO COPIES OF TEST SUMMARY SHEET. ATTACH ONE COPY TO TEST J.I.C. AND PROVIDE THE OTHER COPY ALONG WITH TEST LOG PACKAGE TO ENGINEERING.

M 6526 26. FILL OUT PROBLEM SHEET, MAKE ONE COPY OF PROBLEM SHEET. ATTACH TO TEST J.I.C.

L962 LM 6526 27. TESTED OK 6526 NOT OK ____

TCR FOR _____ EVA REQUESTED _____

IF TCR, THE FOLLOWING MUST BE SIGNED OFF AND DATED.
SHOP FORMAN_____DATE_____
ENGINEER_____DATE_____

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 ENGINE - TEST / RUN SHEET

REV. 10/10/08

V607	62697	V0105.1
ORDER NO	ENGINE NO	JOB NO

END JOB V0105.1 REVISED 10/10/08

L962 L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 SERVICE AFTER TEST

REV. 9/15/09

V607	62697	V0106.0
ORDER NO	ENGINE NO	JOB NO

NOTE - SET TORQUE WRENCH TO THE TORQUE VALUE SPECIFIED. IF NO TORQUE VALUE IS SPECIFIED, USE STANDARD TORQUE PER GN-8-0-2-14.

CAUTION - SCRAP ANY SELF LOCKING NUT WHICH CAN BE TURNED PAST ITS LOCKING FEATURE BY HAND.

M 6526 1. REMOVE TESTCELL EXHAUST PIPE AND CLAMP.

M 6526 2. REMOVE TESTCELL STARTER HARNESS. TIGHTEN STARTER TERMINAL NUTS FINGER TIGHT.

M 6526 3. REMOVE GENERATOR HARNESS.

M 6526 4. REMOVE MAIN ELECTRICAL HARNESS ADAPTER.

M 6526 5. REMOVE PS3 TEST TUBE AND REINSTALL PCD2 TUBE.

M 6526 6. INSTALL GENERATOR TERMINAL COVER.

M 6526 7. REMOVE OIL TEMPERATURE BULB AND REDUCER FROM GEARBOX. INSTALL PLUG AND O-RING. TORQUE PLUG.

M 6526 8. REMOVE FUEL INLET QUICK DISCONNECT FITTING. INSTALL UNION AND O-RING. TORQUE UNION AND THEN CAP.

M 6526 9. INSTALL COVERS, CAPS, OR PLUGS ON ALL TEST EQUIPMENT.

ITEM 10. APU IS UAL's. Miro Gracl 05672 6526

L962 ~~L~~ LM ~~6526~~ 10. CUSTOMER ONLY: VIDEO BORESCOPE REQUIRED, REQUEST JIC V0108.0 FROM SCHEDULE CENTER. PREPARE ENGINE FOR BORESCOPE ACCESS.

L962 I 11. CUSTOMER ONLY: VIDEO BORESCOPE LOAD COMPRESSOR IMPELLER LEADING EDGE AND TRAILING EDGE BLADES. C1 IMPELLER LEADING EDGE AND TRAILING EDGE BLADES. C1 VOLUTE AND LOAD COMPRESSOR VOLUTE. INSPECT PER EID 49-10-01 CRITERIA LIMITS. REQUEST JIC V0108.0 FROM SCHEDULE CENTER.

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

ITEM 12 NOT REQUIRED, Mike Spacil 05672 6526

Job Instruction Card

331-200 SERVICE AFTER TEST

REV. 9/15/09

V607	62697	V0106.0
ORDER NO	ENGINE NO	JOB NO

M 6526 12. REINSTALL PARTS REMOVED FOR BORESCOPE ACCESS.

M 6526 13. PROVIDE ENGINE MOUNT NUTS AND WASHERS IN CLOTH BAG ATTACHED TO LEFT REAR ENGINE MOUNT.

M 6526 14. RE-TORQUE AFT SCAVENGE PUMP ASSEMBLY NUTS TO 90 LB. IN. INSTALL TAIL CONE, SPACER AND SCREWS AND TORQUE TO 50 LB. IN.

M 6526 15. CHECK GEARBOX VENT LINE AT TURBINE EXHAUST FOR OIL WETNESS. MAXIMUM OIL DRIPPINGS IS 150 DROPS OR 10CC TOTAL.

M 6526 16. CHECK OIL LEVEL AND SERVICE AS REQUIRED.

M 6526 17. DRAIN FUEL FROM FILTER BOWL AND REINSTALL FILTER BOWL.

M 6526 18. VERIFY DRAIN MAST FITTINGS ARE IN UPPER HOLES OF DRAIN MAST PER IPC. (REF. IPC 50/60/65-49-16-00-011).

50-49-16-00-011
60-49-16-00-011
65-49-16-00-011

-------CONTINUOUS AIRWORTHINESS ITEMS ----------

CHECK SAFETY.

L 6962 19. ROTATE ENGINE AND CHECK FOR UNUSUAL NOISES AND FOR FREEDOM OF ROTATION.

CAUTION - ROTATE ENGINE AFTER ENGINE HAS COOLED.

L 6962 20. CHECK SAFETY OF MAIN OIL SCREEN

M 6526 21. INSTALL EXXON 2389 PLACARD (265-2389) ON FORWARD SIDE OF OIL FILLER HOUSING. REMOVE OTHER OIL PLACARDS.

M 6526 22. INSTALL COVERS, CAPS OR PLUGS ON ALL APU OPENINGS.

L 6962 ALL ITEMS ARE PROPERLY SIGNED OFF.

M 6526 23. CLAMP FUEL LINE TO BRACKET BETWEEN FUEL CONTROL & FLOW DIVIDER VALVE.

M 6526 24. PERFORM SECURITY AND SAFETY CHECK OF ENGINE.
CHECK ALL TUBE AND HOSE NUTS FOR SECURITY.
ASSURE THAT FUEL NOZZLES ARE SECURE AND SAFETIED.
CHECK ELECTRICAL CONNECTORS FOR SECURITY. SAFETY AS REQUIRED.

M 6526 25. IF ENGINE IS TO BE PRESERVED, REQUEST JIC V0106.1 FROM SCHEDULE CENTER.

M 6526 26. THIS UNIT HAS BEEN PREPARED FOR SHIPMENT IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF U.S. DOT 49 CFR HAZARDOUS MATERIALS TRANSPORTATION REGULATIONS AND THE ICAO/IATA DANGEROUS GOODS REGULATIONS.

L962 L 27. LEAD - FINAL CHECK OF ENGINE.
CHECK THAT SERVICEABLE TAG IS PRESENT IN PLASTIC ENVELOPE.
CHECK THAT V0108.0 IS COMPLETE.

L962 L 28. ACCOMPLISH "ENGVST" TRANSACTION IN UNIMATIC TO RECORD THE ENGINE VISIT WORK COMPLETION. RECORD IN "ENGWRK" DISPLAY ANY OTHER OPEN ITEMS TO BE ACCOMPLISHED DURING APU INSTALLATION.

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 SERVICE AFTER TEST

REV. 9/15/09

V607	62697	V0106.0
ORDER NO	ENGINE NO	JOB NO.

END JOB V0106.0 REVISED 9/15/09

L962 L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 SERVICE AFTER TEST LEAD CHECK

REV. 6/5/03

V607	62697	V0106.5
ORDER NO.	ENGINE NO	JOB NO

NOTE - RECORD ALL DISCREPANCIES ON SERVICE AFTER TEST LEAD RECHECK JOB CARD V0106.6

L962 L 1. VERIFY ALL REPAIRS TO BE ACCOMPLISHED DURING OR AFTER TEST HAVE BEEN PROPERLY COMPLETED.

L962 L 2. CHECK FOR FREEDOM OF ROTATION AFTER ENGINE HAS COOLED. CHECK FOR UNUSUAL NOISES.

L962 L 3. CHECK INLET AND EXHAUST FOR DEBRIS, F.O.D. OR OBVIOUS DAMAGE.

L962 L 4. CHECK GENERATOR, STARTER AND MAIN ELECTRICAL CONNECTORS FOR BENT, BURNED OR PUSHED BACK PINS OR SOCKETS.

L962 L 5. CHECK THAT ALL CAPS AND PLUGS ARE INSTALLED, TIGHT AND, IF NECESSARY, SAFTIED.

L962 L 6. CHECK THAT PROPER MANUFACTURER ENGINE IDENTIFICATION DATA PLATE IS INSTALLED ON LOWER INLET PLENUM AND INSPECTION PLATE INSTALLED AND SECURE.

L962 L 7. CHECK THAT UA S/N I.D. PLATE IS INSTALLED BELOW GEARBOX. CHECK ALL MOUNTED ACCESSORIES FOR PROPER INSTALLATION.

L962 L 8. CHECK THAT ENGINE MOUNT AND SHIPPING MOUNT BOLTS ARE INSTALLED AND TIGHTENED AFTER APU IS INSTALLED IN SHIPPING STAND.

L962 L 9. CHECK THAT NEW ENGINE MOUNT NUTS AND WASHERS ARE PROVIDED IN CLOTH BAG ATTACHED TO LEFT AFT MOUNT.

L962 L 10. CHECK THAT ALL PROTECTIVE COVERS ARE INSTALLED ON INLET AND EXHAUST.

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 SERVICE AFTER TEST LEAD CHECK

REV. 6/5/03

V607	62697	V0106.5
ORDER NO	ENGINE NO	JOB NO

END JOB V0106.5 REVISED 6/5/03

1

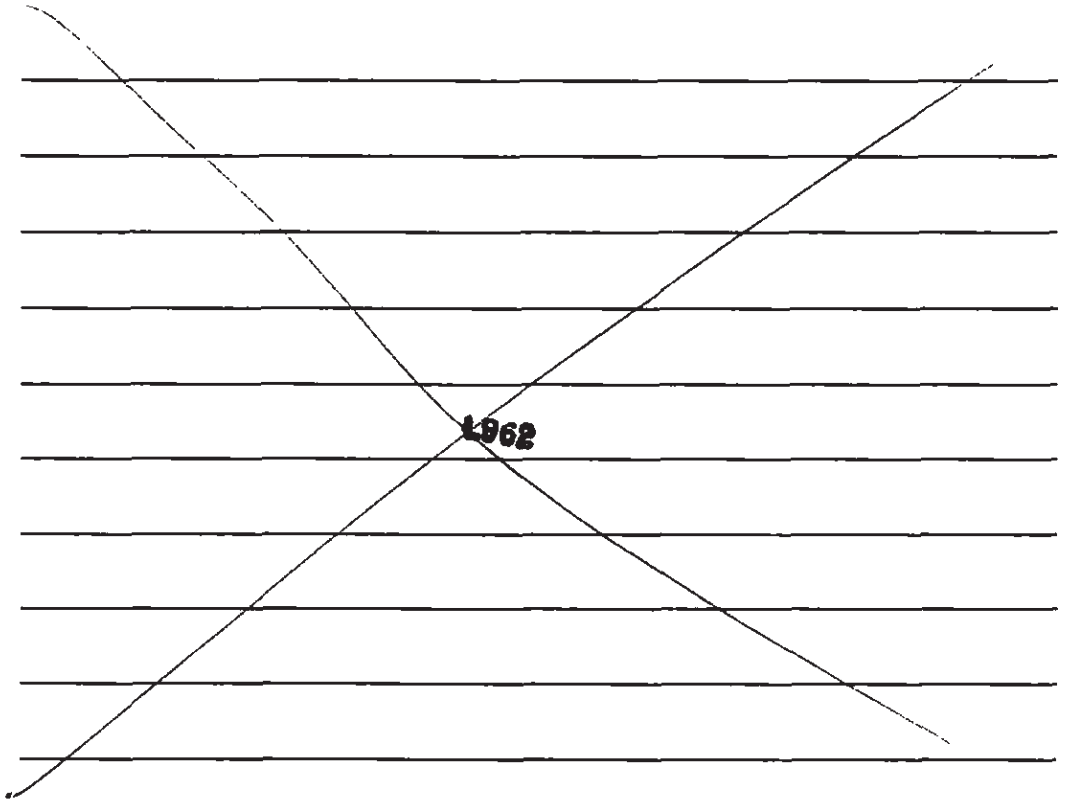
STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 SERVICE AFTER TEST LEAD RECHECK

REV. 9/16/91

V607	62697	V0106.6
ORDER NO	ENGINE NO	JOB NO



L962

_____L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 SERVICE AFTER TEST LEAD RECHECK

REV. 9/16/91

V607	62697	V0106.6
ORDER NO	ENGINE NO	JOB NO

END JOB V0106.6 REVISED 9/16/91

1962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 TEST CELL REPAIRS

REV. 4/10/00

V607	62697	V0106.7
ORDER NO.	ENGINE NO	JOB NO

NOTE - USE THIS JIC TO RECORD ANY WORK ACCOMPLISHED IN THE TEST CELL OTHER THAN THE TEST ITSELF.

NOTE - LEAD, SIGN-OFF IN LEFT HAND COLUMN.
MECHANIC, SIGN-OFF IN RIGHT HAND COLUMN.

NOTE - IF NO DISCREPANCIES FOUND, WRITE NONE.

DISCREPANCY OR ACTION

NONE

6526

6526

6962 L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 TEST CELL REPAIRS

REV. 4/10/00

V607	62697	V0106.7
ORDER NO.	ENGINE NO	JOB NO

END JOB V0106.7 REVISED 4/10/00

1962

_____L

551

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 APU ENGINE SHIPPING

REV. 11/22/85

V607	62697	V0110.0
ORDER NO	ENGINE NO	JOB NO

M 6528

1. ATTACH LIFTING SLING TO ENGINE AND REMOVE ENGINE FROM RUN OR BUILD STAND.

L962 L

2. CHECK ENGINE MOUNTS FOR SECURITY OF INSTALLATION ON ENGINE.

M 6526

3. POSITION ENGINE IN SHIPPING STAND AND SECURE WITH SAFETY PINS ON ENGINE MOUNTS.

L962 L

4. CHECK ENGINE FOR SECURITY AND PROPER INSTALLATION IN SHIPPING STAND.

L962 L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

1

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331-200 APU ENGINE SHIPPING

REV. 11/22/85

V607	62697	V0110.0
ORDER NO	ENGINE NO.	JOB NO.

END JOB V0110.0 REVISED 11/22/85

L962L

ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE DEPARTMENT

UNITED

COAS BY SUBASSEMBLY REASON: REMOVAL REQUESTOR NAME: REMOVAL
ORGANIZATION:

WORK CENTER: 551

SERIAL NBR	ET	MT	NAME	PWR RTG	CUST
62697		V	APU331	200E	UA

ORDER NUMBER
V607

COAS FOR MODULE TYPE N - SERIAL NUMBER P-1983 MODULE NAME: POWER SECTION WORK CENTER: 551

COA NUMBER	COA CAT	MODULE/ FUNC NBR	UNIT SERIAL	UNIT COA STATUS	ISS	COMP	COA TITLE	COMPLETION DATE

*** NO COAS SCHEDULED FOR THIS UNIT ***

UNITED AIRLINES ENGINE SIT AD VERIFICATION

AOP PAI-46-08-00-13

ENGINE TYPE GTCP331-200 ENGINE S/N 62697 ORDER NO. V607

AD NUMBER	TITLE	INSTRUCTIONS FOR APPLICABILITY	INSTRUCTIONS FOR VERIFICATION	SFOI VER
NO ACTIVE AIRWORTHINESS DIRECTIVES (AD)				N/A

This report applies to this engine visit only. For Engine AD status, see United Airlines AD Compliance Record.

Signature _____ Date 12/14/09

KEY: C/W = complied with this visit
PCW = previously complied with
N/A = not applicable this visit
FCW = factory complied with

CONTR DATE

1/6/9

ORDER NUMBER	ENGINE TYPE	MODULE TYPE	SERIAL NUMBER	CUSTOMER UA		
V607	V		62697	CURRENT PWR RTG 200E	TSN 14084 LOW NONE	
				NOUN APU331	CSN 17883 LOW 01691	
					DAYS REMAINING NONE	

TIMES/CYCLES CURRENT TO THIS MAINTENANCE

FUNC/MOD NAME	SERIAL NUMBER PART NUMBER	LIMIT VALUE	SERIAL ACCUMS	EVENTS	REMAINING VALUE
01009-001	073450490	025000	03452	CSN	21548
T3 WHEEL ASSY	3840022-4				
01007-001	9650104048	020000	14862	CSN	05138
DISK T2 TURBINE	3840007-1				
01004-001	9835702680	020000	18309	CSN	01691
DISK T1 TURBINE	3840019-1				

* * * END OF REPORT * * *

ORDER NUMBER\	ENGINE TYPE\	MODULE TYPE\	SERIAL NUMBER\	NOUN	CUST-OMER	CURRENT POWER RTG	PRIOR ORDER
V607	V		62697	APU331	UA	200E	V383

PRINT:	ACTUALS:	ACCUMS/SUBS:	DIMENSIONS:	COAS:	LIMITS:
P		Y			

OFF FLEET 757 OFF AC NBR N564UA-APU DATE ON 111007 DATE OFF 111809
SERVICEABLE STATUS S DATE-LAST-SERV 121509
COMMENTS

ACCUMULATIONS AND SUB-ASSEMBLIES

ACCUMS: 14084 TSN 17883 CSN

MT	MODULE NAME	SER NBR	ORDNO	OFF DATE	ON DATE	TSHM	TSMI
F	DRIVEN COMP SE	P-1902	V607	090407	102207		02559
N	POWER SECTION	P-1983	V607	090707	102207		02559
A	GEARBOX ASSMBLY	P209	V578	070209	120909		00000

* * * END OF REPORT * * *

ENH647D0 ENGINE MAINTENANCE SYSTEM 02/15/10 07:39:50
ENGMOD ENGINE/MODULE SUMMARY REPORT PAGE: 1

ORDER NUMBER\	ENGINE TYPE\	MODULE TYPE\	SERIAL NUMBER\	NOUN	CUST-OMER	CURRENT POWER RTG	PRIOR ORDER
V607	V		62697	APU331	UA	200E	V383

PRINT:	ACTUALS:	ACCUMS/SUBS:	DIMENSIONS:	COAS:	LIMITS:
P		Y			

OFF FLEET 757 OFF AC NBR N564UA-APU DATE ON 111007 DATE OFF 111809
SERVICEABLE STATUS S DATE-LAST-SERV 121509
COMMENTS

ACCUMULATIONS AND SUB-ASSEMBLIES

ACCUMS: 14084 ISN 17883 CSN

MT	MODULE NAME	SER NBR	ORDNO	OFF DATE	ON DATE	TSHM	TSMI
F	DRIVEN COMP SE	P-1902	V607	090407	102207		02559
N	POWER SECTION	P-1983	V607	090707	102207		02559
A	GEARBOX ASSMBLY	P209	V578	070209	120909		00000

* * * END OF REPORT * * *

ENH692D0 * * ENGINE MAINTENANCE SYSTEM * * 02/15/10 07:39:59
ENGRVW UNITED AIRLINES ENGINE/MODULE REVIEW PAGE: 1

ORDER NUMBER: V607 ET: V MT: SERIAL NUMBER: 62697
NOUN: APU331 CUST: UA POWER RATING: 200E PRIOR-ORDNO: V383
UPDATE NBR: 03 REVISION NBR: 03 DATE: 12/03/09 REVISED BY: 069087
OFF FLEET 757 OFF AC NBR-POS N564UA-APU DATE ON: 11/10/07
DATE MAINTENANCED: 11/18/09 STA: LAX
SERVICEABLE STATUS: S DATE SERV: 12/15/09
COMMENTS: FIX LETTER: N
DATE LSV: 09/28/07 TSLV: 02559 CSLV: 0345Z TSLM: 02559 CSLM: 0345Z
ACCUMS: 14004 TSN 17883 CSN

REASON REMOVED : APU HANGING UP W/25%RPM/CHIP DETTR METAL
REVIEW COMMENTS: TYPE REPAIR: ESV
BORESCOPE: TYPE OF RUN:
REPAIR DECISION:
PBC.FIND SOURCE OF METAL.REREVIEW.(JH11/23)-- METAL ON GEARBOX DETECTOR---
ROUTE GEARBOX, FAN, PUMP, MIS CLEAN.---REPLACE FRONT SEAL AND BEARING
AND ROTOR ON LOAD COMPRESSOR.(SM 12/3)

MT	MODULE NAME	SER NBR	REMAINING HOURS	REMAINING CYCLE	TSHM	TSMI	ROUTE TIME/LIMIT THR	W/C INSTRUCTION
F	DRIVEN COMP SE	P-1902	N/A	N/A	UNK	02559	NONE	
N	POWER SECTION	P-1983	N/A	01691	UNK	02559	X	
A	GEARBOX ASSMBL	P-1490	N/A	N/A	UNK	02559	NONE	

*** END OF REPORT ***

ORDER NUMBER\	ENGINE TYPE\	MODULE TYPE\	SERIAL NUMBER\	NOUN	CUST-OMER	CURRENT POWER RTG	PRIOR ORDER
FV607	V	F	F-1902	DRIVEN COMP SE	UA	200E	V379

PRINT: P ACTUALS: ACCUMS/SUBS: Y DIMENSIONS: COAS: LIMITS:

ON ORDNO V607 ON SERIAL 62697 DATE ON 102207 DATE OFF 090407
SERVICEABLE STATUS S DATE-LAST-SERV 102207
COMMENTS

ACCUMULATIONS AND SUB-ASSEMBLIES

ACCUMS:	13988 TSN	21489 CSN	02559 TSMI
	03452 CSMI	02559 TSMDPI	03452 CSMDPI

MT	MODULE NAME	SER NBR	ORDNO	OFF DATE	ON DATE	TSHM	TSMI

* * * END OF REPORT * * *

ORDER NUMBER\	ENGINE TYPE\	MODULE TYPE\	SERIAL NUMBER\	NOUN	CUST-OMER	CURRENT POWER RTG	PRIOR ORDER
NV607	V	N	P-1983	POWER SECTION	UA	200E	V376

PRINT: P ACTUALS: ACCUMS/SUBS: Y DIMENSIONS: COAS: LIMITS:

ON ORDNO V607 ON SERIAL 62697 DATE ON 102207 DATE OFF 090707
SERVICEABLE STATUS S DATE-LAST-SERV 101607
COMMENTS

ACCUMULATIONS AND SUB-ASSEMBLIES

ACCUMS: 15166 TSN 18476 CSN 02559 TSMI
03452 CSMI 02559 TSMDPI 03452 CSMDPI

MT	MODULE NAME	SER NBR	ORDNO	OFF DATE	ON DATE	TSHM	TSMI

* * * END OF REPORT * * *

ENH647D0 ENGINE MAINTENANCE SYSTEM 02/15/10 07:40:24
ENGMOD ENGINE/MODULE SUMMARY REPORT PAGE: 1

ORDER NUMBER\	ENGINE TYPE\	MODULE TYPE\	SERIAL NUMBER\	NOUN	CUST-OMER	CURRENT POWER RTG	PRIOR ORDER
AV578	V	A	F209	GEARBOX ASSMBL	UA	200E	V643

PRINT:	ACTUALS:	ACCUMS/SUBS:	DIMENSIONS:	COAS:	LIMITS:
P		Y			

ON ORDNO V607 ON SERIAL 62697 DATE ON 120909 DATE OFF 070209
SERVICEABLE STATUS S DATE-LAST-SERV 120809
COMMENTS

ACCUMULATIONS AND SUB-ASSEMBLIES
==========

ACCUMS:	23377	TSN	10748	CSN	00000 TSMI
	00000	CSM1	00000	TSMDPI	00000 CSMDPI

MT	MODULE NAME	SER NBR	ORDNO	OFF DATE	ON DATE	TSHM	TSMI

* * * END OF REPORT * * *

ORDER NUMBER: V607 ET: V MT: SERIAL NUMBER: 62697
NOUN: APU331 CUST: UA POWER RATING: 200E PRIOR-ORDNO: V383
UPDATE NBR: 03 REVISION NBR: 03 DATE: 12/03/09 REVISED BY: 069087
OFF FLEET 757 OFF AC NBR-POS N564UA-APU DATE ON: 11/10/07
DATE MAINTENANCED: 11/18/09 STA: LAX
SERVICEABLE STATUS: S DATE SERV: 12/15/09
COMMENTS: FIX LETTER: N
DATE LSV: 09/28/07 TSLV: 02559 CSLV: 03452 TSLM: 02559 CSLM: 03452
ACCUMS: 14084 TSN 17883 CSN

REASON REMOVED : APU HANGING UP W/25%RPM/CHIP DETTR METAL
REVIEW COMMENTS: TYPE REPAIR: ESV
BORESCOPE: TYPE OF RUN:
REPAIR DECISION:
PBC.FIND SOURCE OF METAL.REREVIEW.(JH11/23)-- METAL ON GEARBOX DETECTOR---
ROUTE GEARBOX, FAN, PUMP, MIS CLEAN.---REPLACE FRONT SEAL AND BEARING
AND ROTOR ON LOAD COMPRESSOR.(SM 12/3)

			REMAINING				ROUTE TIME/LIMIT	
MT	MODULE NAME	SER NBR	HOURS	CYCLE	TSHM	TSMI	THR	W/C INSTRUCTION
F	DRIVEN COMP SE	P-1902	N/A	N/A	UNK	02559	NONE	
N	POWER SECTION	P-1983	N/A	01691	UNK	02559	X	
A	GEARBOX ASSMBL	P-1490	N/A	N/A	UNK	02559	NONE	

*** END OF REPORT ***

UNITED AIRLINES

APU TEST CELL SUMMARY

Test Cell # 1
Test Completed 12/15/ 9 Engine Model GTCP-331 Engine Serial No 62697
Customer Code UA Order No. V607 Run Type. No Power Section Ref

START DATA

PARAMETER	10% N2 DATA	LIMIT	30% N2 DATA	LIMIT	50% N2 DATA	LIMIT	95% N2 DATA	LIMIT
Date	12/16/ 9		12/16/ 9		12/16/ 9		12/16/ 9	
Time	9.32 25		9 32.32		9 32 46		9·33. 4	
Time	3.2		10 7		24.4		42.8	
NArpm	6262		11937		19888		37821	
NA %	15.7		30.0		49 9		94.9	
Vgg	.07		37		12		.08	
Vagb	.05		.15		.08		.23	
Wf-1	60		62		108		239	
Pfpump	3.4		63.3		113.4		218.2	
Poilpump	.3		7.1		27 6		61.4	
Pfinlt	26.2		26 2		26.0		26.1	
CITAvg	23.6		23.2		22 2		20 6	
ACCEL	1409.1		626.2		652.3		1036 0	
Toil	88 2		490.9		85.5		80 1	
Tt7Avg	176 9	1028 degC	323 7	912 degC	615 3	826 degC	412.8	633 degC
EGTAvg	193.4		490.9		722.5		397 8	

UNITED AIRLINES

APU TEST CELL SUMMARY

Test Cell # 1
Test Completed 12/15/ 9 Engine Model GTCP-331 Engine Serial No 62697
Customer Code UA Order No. V607 Run Type No Power Section Ref

PARAMETER	IDLE DATA	LIMIT	GENERATOR DATA	LIMIT
Date	12/16/ 9		12/15/ 9	
Time	9 38 21		13 44 51	
NArpm	39834		39860	
NA %	100.0		100.0	
PMGAB (Loaded)	100		86	81-102 vac
PMGBC (Loaded)	101		87	81-102 vac
PMGAC (Loaded)	100		86	81-102 vac
KVA1	0		86	
GENAB	208		208	203-212 vac
GENBC	208		208	203-212 vac
GENAC	209		208	203-212 vac
GENFREQ	396		397	395-405 hz
Vgg	.08	0.78 mils	.11	0 78 mils
Vagb	.21	0 78 mils	.30	0 78 mils
DpCond	1.26		1 40	
PtCond	14.64		14 65	
P2Cond	14.58		14.53	
Pfpump	226.2		283 2	
PoilPump	62.9	60-75 psig	62 9	
Pagb	-1.4	-1.8 psig	-1.5	
Ps3	100.7		104 9	
CITAvg	20.6		19.8	
Toil	87.7	152 degC	91.8	
Tt7Avg	355.4	500 0 degC	401.7	
EGTAvg	354.4		398.6	
EGT1	364.5		412.2	
EGT2	344.4		384 9	
Wf-1	242		291	

UNITED AIRLINES

APU TEST CELL SUMMARY

Test Cell # 1
Test Completed. 12/15/ 9 Engine Model GTCP-331 Engine Serial No 62697
Customer Code UA Order No V607 Run Type No Power Section Ref

PARAMETER	COMB LOAD DATA	COMB LOAD LIMIT	PERFORMANCE DATA	PERFORMANCE LIMIT	ALTITUDE DATA	ALTITUDE LIMIT
Date	12/16/ 9		12/16/ 9		12/15/ 9	
Time	10. 7 30		10.14.37		12. 6.15	
NArpm	40394		40406		40402	
NA %	101 4	101 %	101.4	101 %	101.4	101 %
Vgg	.15	0.78 mil	15	0.78 mil	12	0.78 mil
Vagb	.23	0.78 mil	22	0.78 mil	.23	0.78 mil
IGV-lvdt	20		-19		-21	
SV-TM	100		83		100	
DCF	96 8		96 9	95-97 ppm	96 7	95-97 ppm
KVA1	89		0		0	
WBcorr	258 7		291.8	264.2 ppm	293 0	264 2 ppm
Wf-1	408		414		406	
HP70	415 0		532.5		530 3	
NC	.8		8		8	
DpCond	2 23		2.91		3 08	
Pt1cond	48.89		56.51		56 54	
P2Cond	14.54		14 54		14.50	
PBcorr	49.14		56.65	52.81 psia	56.94	52.82 psia
Pcell	14.85		14 85		14 80	
Pfpump	456.3		466.1		452.3	
PoilPump	61 9		62.6	60-75 psig	67.0	60-75 psig
Pagb	-1.9		-1.9		2 0	
Ps3	112 7		113 5		113.0	
CITAvg	20.3		19.3		19.2	
CIT1	20.3		18.9		18.9	
CIT2	20.9		20.1		20.0	
CIT3	20 4		19.6		19 3	
CIT4	19.1		18.7		18 6	
TBcorr	178.6		200.0		198.5	
Tfinlt	15.8		16.1		17.1	
Toil	100.9		89.9		89.3	
Tt7Avg	518.1		519.2		514.1	
Tt7AvgCorr	539 8		495.7	497.0 degC	488.9	496.9 degC
EGT1	539 5		540.5		534.8	
EGT2	504.4		505 5		499.7	
EGTAvg	521.7		522.2		516.6	

UNITED AIRLINES

APU TEST STATUS SUMMARY

Test Completed. 12/15/ 9 | Engine Model GTCP-331 | Engine Serial No 02697
Customer Code. UA | Order No. V607 | Run Type. Repair Run
Total Runtime. 3 14 30 | Fuel Used. 175 gals

AUTORUN TASKS	*COMPLETED*	*PASS/FAIL*
Altitude Simulation Test	YES	Passed
Oil In Bleed Air	YES	Passed
Performance Run	YES	Passed
Combined Load	YES	Passed
Generator Check	YES	Passed
Surge Control	YES	Passed
Leak/Instrumentation/Idle	YES	Passed
Start	YES	Passed
Fuel bleed	YES	Passed

COMPONENT(s) REPAIRED/REPLACED	
Actuator IGV repaired or replaced	YES

TESTED OK 6526 NOT OK _____

BY Mirco Spacil

DATE. 12-15-2009

ENGINE MAINTENANCE RECORDS

LOG CERTIFICATION FORM D-199

REF: PAOP 45-55-30-04

CONTROLLED DOCUMENT - DO NOT DUPLICATE

ALL PORTIONS OF BUILD LOGS ARE COMPLETE AND ACCURATE FOR ENGINE/STAND-ALONE MODULES

ESN 62697

Repair Order Number V607

Power Rating 331-200E

IN ADDITION, THE A D. VERIFICATION CHECKLIST (AS SUPPLIED BY SFOEP) IS ON FILE IN SFOMR/PA AS PART OF THE ENGINE LOG

THE FOLLOWING ITEMS MUST BE CLEARED BEFORE THE ENGINE/STAND-ALONE MODULE IS RELEASED· (IF NONE, SO STATE)

NONE

SFOMR/PA: _____ **Date** 12/14/2009

Shirley Buffert

FOR SFOMR / PA USE ONLY

WHEN ENGINE MAINTENANCE RETURNS THIS D-199 TO SFOMR/PA AS A RESULT OF A TEST CELL INTERRUPT (TCI) OR A TEST CELL REJECT (TCR), FILL OUT THE FOLLOWING INFORMATION.

REASON: **TCI or TCR?** _____

SFOMR/PA· _____ **Date**

(SIGNATURE HERE RENDERS THIS D-199 NULL AND VOID)

SFR4568

REVISED 01/09/2004
(ALL PRIOR DATES OBSOLETE)

ORIGINAL

1 Approving National Aviation Authority/Country	2	3 Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	016-A00342115

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
UNITED AIRLINES San Francisco International Airport, San Francisco, California 94128-3800 USA	WC541

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Qty	11 Serial/Batch #	12. Status/Work.
(1)	REGULATOR-OIL TEMP VN P/N 1601	UA P/N MR49512	N/A	1	UA MR DASH 119	REPAIRED

13 Remarks

RECEIVING INSPECTION REQUIRED ITEM 1 REPAIRED IN ACCORDANCE WITH U A.L SPECIFICATIONS MJ-60-49-90-08-JD REV DATE 20080627 MAINTENANCE RECORD ON FILE UNDER MR49512-119 UNITED AIR LINES CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12 AND 13 WAS PERFORMED IN ACCORDANCE WITH EASA IMPLEMENTATION RULE PART 145 APPROVAL, AND WITH RESPECT TO THAT WORK, THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE UNDER EASA APPROVAL NUMBER 145 4980 MATERIAL SUPPLIED TO AIRLIANCE MATERIALS
END

SPEC 2000 ID SPL 81979- UCN L1X26043

[redacted]

19. ☑ 14 CFR 43.9 Return to Service ☑ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14 Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

20 Authorized Signature.	21 Approval/Certificate No
Mark F Gallinger	UALR011A
22. Name & FN (Typed or Printed)	**23 Date (m/d/y)**
GALLINGER,MARK 027569	DEC/01/2009

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulation of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross-check eligibility with applicable technical data [FAA form 8130-3 (8-01)-NSN 0052-00-012-9005] AOP 3-3-1

24. Stock Control Information		
	RCS CONTROLLED ? YES	PCN. 645-0019
	HOME SHOP WRONG - 551	FINAL ROUTING 645
	SHELF LIFE(IN MONTHS) 99	BATCHABLE? NO
	SHIP & STORE IN CONTAINER H2-	

25 **UNITED AIRLINES**

26 **Part Removed Tag**

27 ROUTED BY (PRINT LAST NAME & F/N).	28. STATION.	29. DATE:

	PCN	PART NUMBER	DESCRIPTION	DASH NO ON	MFG S/N	UTSO
30 ON UNIT	645-0019	MR49512	REGULATOR-OIL TEMP VN P /N 1601	119	UA119	
31 OFF UNIT	PCN	PART NUMBER	DESCRIPTION	DASH NO. OFF	MFG. S/N.	

32 REMOVAL & INSTALLATION DATA

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED		COMPLETE AS REQUIRED	
PLANE NO	PLANE TT	NHA PCN	NHA DASH #	NHA** CODE	POSITION
		62697	V607	P	APU

REASON FOR REMOVAL OR REPORTED TROUBLE(INCLUDE LINE CENTER/WU):

☐ TIME (SCHEDULED MAINT.) ☐ TROUBLE (SUSPECTED FAILURE OR TROUBLE SHOOTING) ☐ OTHER (COA, DAMAGE, WEAR OR CONVENIENCE)

INSTALLED. Miro Spacil 12-14-09

** NHA (NEXT HIGHER ASSEMBLY) CODES A OR BLANK = AIRPLANE, G = LANDING GEAR, P = APU, 1, 2, 3 OR 4 = ENGINE

1 Approving National Aviation Authority/Country: FAA/United States	2 **AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number: 016-A00343472

4 Organization Name and Address.
UNITED AIRLINES
San Francisco International Airport, San Francisco, California 94128-3800 USA

5 Work Order/Contract/Invoice Number: W/C 124

6 Item	7 Description	8. Part Number:	9. Eligibility *	10 Qty	11 Serial/Batch #	12. Status/Work.
(1)	STARTER-APU	UA P/N MR49408	N/A	1	UA MR DASH 92	REPAIRED

13 Remarks

ITEM 1 REPAIRED I A W UAL SPECIFICATION AC-60-49-40-01-JD REVISION DATE AUG/25/1999
END

SPEC 2000 ID SPL 81979- UCN L1X50622

☐
☐

19 ☑ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

20. Authorized Signature

21 Approval/Certificate No.: UALA011A

22. Name & FN (Typed or Printed): SOMARRIBA,GUSTAVO 119119

23. Date (m/d/y): DEC/09/2009

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulation of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross-check eligibility with applicable technical data.

[FAA form 8130-3 (6-01)-NSN 0052-00-012-9005] AOP 3-3-1

24. Stock Control Information		
	RCS CONTROLLED ? YES	PCN 651-1150
	HOME SHOP SFOEC - 124	FINAL ROUTING 651
	SHELF LIFE(IN MONTHS) 99	BATCHABLE? NO
	SHIP & STORE IN CONTAINER . O6*	

25. **UNITED AIRLINES**

26 **Part Removed Tag**

27. ROUTED BY (PRINT LAST NAME & F/N):

28. STATION:

29. DATE:

30 ON UNIT	PCN	PART NUMBER	DESCRIPTION	DASH NO ON	MFG S/N.	UTSO
	651-1150	MR49408	STARTER-APU	92	90-2592	

31 OFF UNIT	PCN	PART NUMBER	DESCRIPTION	DASH NO. OFF	MFG. S/N.

32. REMOVAL & INSTALLATION DATA

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED		COMPLETE AS REQUIRED	
PLANE NO.	PLANE TT	NHA PCN	NHA DASH #	NHA** CODE	POSITION
		62679	V607	P	APU

REASON FOR REMOVAL OR REPORTED TROUBLE(INCLUDE LINE CENTER/WU):

☐ TIME (SCHEDULED MAINT.) ☐ TROUBLE (SUSPECTED FAILURE OR TROUBLE SHOOTING) ☐ OTHER (COA, DAMAGE, WEAR OR CONVENIENCE)

INSTALLED. Miro Spacil 5672 12-14-09

REPORTABLE UNIT-MRDATA TRANSACTION REQUIRED

** NHA (NEXT HIGHER ASSEMBLY) CODES A OR BLANK = AIRPLANE, G = LANDING GEAR, P = APU, 1, 2, 3 OR 4 = ENGINE

1. Approving National Aviation Authority/Country	2	3. Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	016-A00343212

4. Organization Name and Address.	5.Work Order/Contract/Invoice Number
UNITED AIRLINES San Francisco International Airport, San Francisco, California 94128-3800 USA	WC153

6. Item	7 Description	8. Part Number	9 Eligibility*	10. Qty	11 Serial/Batch #	12. Status/Work
(1)	SWITCH - OIL PRESSURE P/ N ASP	UA P/N MR49272	N/A	1	UA MR DASH 263	REPAIRED

13. Remarks:

ITEM 1 REPAIRED I A.W UAL SPECIFICATION RC-60-49-94-02-JD REVISION DATE OCT 24/2003
END

SPEC 2000 ID SPL 81979- UCN 325968

[redacted]

19. ☑ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

20. Authorized Signature:	21 Approval/Certificate No.
Guzman 59383	UALA011A
22. Name & FN(Typed or Printed): GUZMAN,BENNY 059383	**23. Date (m/d/y):** DEC/08/2009

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly Where the user/installer performs work in accordance with the national regulation of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

* Installer must cross-check eligibility with applicable technical data.

[FAA form 8130-3 (6-01)-NSN. 0052-00-012-9005] AOP 3-3-1

24. Stock Control Information		
	RCS CONTROLLED ? YES	PCN 265-3641
	HOME SHOP: SFOEC - 153	FINAL ROUTING 265
	SHELF LIFE(IN MONTHS): 99	BATCHABLE? NO
	SHIP & STORE IN CONTAINER	

25 UNITED AIRLINES

26. Part Removed Tag	27 ROUTED BY (PRINT LAST NAME & F/N):	28. STATION:	29. DATE:

	PCN	PART NUMBER	DESCRIPTION	DASH NO ON	MFG S/N.	UTSO
30. ON UNIT	265-3641	MR49272	SWITCH - OIL PRESSURE P/N ASP	263	E051381	
31 OFF UNIT	PCN	PART NUMBER	DESCRIPTION	DASH NO. OFF	MFG. S/N.	

32. REMOVAL & INSTALLATION DATA	COMPLETE IF PLANE INVOLVED		COMPLETE IP PLANE NOT INVOLVED		COMPLETE AS REQUIRED	
	PLANE NO.	PLANE TT	NHA PCN	NHA DASH #	NHA** CODE	POSITION
			62697	V607	P	APU

REASON FOR REMOVAL OR REPORTED TROUBLE(INCLUDE LINE CENTER/WU):

☐ TIME (SCHEDULED MAINT.) ☐ TROUBLE (SUSPECTED FAILURE OR TROUBLE SHOOTING) ☐ OTHER (COA, DAMAGE, WEAR OR CONVENIENCE)

INSTALLED. Miro Spacil 5672
12-14-09

[redacted] FRONTABLE UNIT MR DATA TRANSACTION REQUIRED

** NHA (NEXT HIGHER ASSEMBLY) CODES A OR BLANK = AIRPLANE, G = LANDING GEAR, P = APU, 1, 2, 3 OR 4 = ENGINE

1 Approving National Aviation Authority/Country	2.	3. Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	016-A00343020

4. Organization Name and Address	5.Work Order/Contract/Invoice Number
UNITED AIRLINES San Francisco International Airport, San Francisco, California 94128-3800 USA	WC541

6. Item	7 Description	8. Part Number	9. Eligibility*	10. Qty.	11 Serial/Batch #	12. Status/Work
(1)	EXCITER-IGNITION 767 APU	UA P/N MR49410	N/A	1	UA MR DASH 173	OVERHAULED

13. Remarks:

OVERHAULED UNIT AND MADE SERVICEABLE PER UAL SPECIFICATIONS IN MJ-60-49-41-01-JD-[1/13/1998] UNITED AIR LINES CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12 AND 13 WAS PERFORMED IN ACCORDANCE WITH EASA IMPLEMENTATION RULE PART 145 APPROVAL, AND WITH RESPECT TO THAT WORK, THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVAL NUMBER 145.4980
END

SPEC 2000 ID SPL 81979- UCN 510680

[redacted]

19. ☑ 14 CFR 43.9 Return to Service ☑ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

20. Authorized Signature.	21 Approval/Certificate No.
	UALR011A
22. Name & FN (Typed or Printed): CUETO,RAY 103173	**23. Date (m/d/y):** DEC/07/2009

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly
Where the user/installer performs work in accordance with the national regulation of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

* Installer must cross-check eligibility with applicable technical data.

[FAA form 8130-3 (6-01)-NSN 0052-00-012-9005] AOP 3-3-1

HAZMAT HAZMAT HAZMAT HAZMAT

24. Stock Control Information		
	RCS CONTROLLED ? YES	PCN 671-0050
	HOME SHOP: WRONG - 551	FINAL ROUTING 671
	SHELF LIFE(IN MONTHS): 99	BATCHABLE? NO
	SHIP & STORE IN CONTAINER .	

25. **UNITED AIRLINES**

26. Part Removed Tag	27 ROUTED BY (PRINT LAST NAME & F/N):	28. STATION:	29 DATE.

	PCN	PART NUMBER	DESCRIPTION	DASH NO ON	MFG S/N.	UTSO
30 ON UNIT	671-0050	MR49410	EXCITER-IGNITION 767 APU	173	96069020	
31 OFF UNIT	PCN	PART NUMBER	DESCRIPTION	DASH NO OFF	MFG. S/N.	

32. REMOVAL & INSTALLATION DATA

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED		COMPLETE AS REQUIRED	
PLANE NO.	PLANE TT	NHA PCN	NHA DASH #	NHA** CODE	POSITION
		62697	V607	P	APU

REASON FOR REMOVAL OR REPORTED TROUBLE(INCLUDE LINE CENTER/WU):

☐ TIME (SCHEDULED MAINT.) ☐ TROUBLE (SUSPECTED FAILURE OR TROUBLE SHOOTING) ☐ OTHER (COA, DAMAGE, WEAR OR CONVENIENCE)

INSTALLED. Mus Spare 5672
12-14-09

REPORTABLE UNIT-MRDATA TRANSACTION REQUIRED

** NHA (NEXT HIGHER ASSEMBLY) CODES A OR BLANK = AIRPLANE, G = LANDING GEAR, P = APU, 1, 2, 3 OR 4 = ENGINE

HAZMAT HAZMAT HAZMAT HAZMAT

1 Approving National Aviation Authority/Country	2	3. Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	016-A00329359

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
UNITED AIRLINES San Francisco International Airport, San Francisco, California 94128-3800 USA	WC153

6 Item	7 Description	8 Part Number	9 Eligibility *	10 Qty	11 Serial/Batch #	12 Status/Work
(1)	SWITCH-APU OIL LEVEL	UA P/N MR49937	N/A	1	UA MR DASH 284	INSPECTED

13 Remarks

ITEM 1 REPAIRED I.A.W UAL SPECIFICATION RC-60-49-93-02-JD REVISION DATE MAY 13/99 NEW UNIT FROM VENDOR PO#48102840050 AND TRACKING #890000727414Y14
END

SPEC 2000 ID SPL 81979- UCN L1X36056

[redacted]

19 ☑ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13 the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14 Code of Federal Regulations part 43 and in respect to that work, the items are approved for return to service

20 Authorized Signature	21 Approval/Certificate No
B Guzman 59383	UALA011A
22 Name & FN (Typed or Printed) GUZMAN,BENNY 059383	**23 Date (m/d/y)** SEP/03/2009

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulation of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

* Installer must cross-check eligibility with applicable technical data

(FAA form 8130-3 (6-01)-NSN 0052-00-012-9005) AOP 3-3-1

24 Stock Control Information		
	RCS CONTROLLED ? YES	PCN 481-0284
	HOME SHOP SFOEC - 153	FINAL ROUTING 481
	SHELF LIFE(IN MONTHS) 99	BATCHABLE? NO
	SHIP & STORE IN CONTAINER JW*	

25. **UNITED AIRLINES**

26 Part Removed Tag	27. ROUTED BY (PRINT LAST NAME & F/N).	28. STATION.	29. DATE.

	PCN	PART NUMBER	DESCRIPTION	DASH NO ON	MFG S/N	UTSO
30 ON UNIT	481-0284	MR49937	SWITCH-APU OIL LEVEL	284	UAL1X36056	
31 OFF UNIT	PCN	PART NUMBER	DESCRIPTION	DASH NO. OFF	MFG. S/N.	

32 REMOVAL & INSTALLATION DATA

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED		COMPLETE AS REQUIRED	
PLANE NO.	PLANE TT	NHA PCN	NHA DASH #	NHA** CODE	POSITION
		62697	V607	P	APU

REASON FOR REMOVAL OR REPORTED TROUBLE(INCLUDE LINE CENTER/WU)

☐ TIME (SCHEDULED MAINT.) ☐ TROUBLE (SUSPECTED FAILURE OR TROUBLE SHOOTING) ☐ OTHER (COA, DAMAGE, WEAR OR CONVENIENCE)

INSTALLED. Miro Spacic 05672
12-14-09

REPORTABLE UNIT-MRDA TRANSACTION REQUIRED

** NHA (NEXT HIGHER ASSEMBLY) CODES A OR BLANK = AIRPLANE, G = LANDING GEAR, P = APU, 1, 2, 3 OR 4 = ENGINE

V607

SFOMR1 SFOBB SFOMR SFOLMEMC SFOEFA SFOIZ SFOFD6
SFOIQ
.HDOCOUA 151629/JAC

SPARE APU CHECK ACCOMPLISHMENT RECORDED - APU SERVICEABLE
SOURCE OF CURRENT SERVICEABLE STATUS IS THE AMIS ENGVST DISPLAY
*******HAZMAT*****HAZMAT PCN: 265-9101 HAZMAT*******HAZMAT******HAZMAT*******
ENG SN: 62697 331- 200E ETT: 14084:30 ETC: 17883 RCS NBR: NO -
A CK CHECK HAS BEEN ACCOMPLISHED AT SFO ON 15DEC2009 AT 0830
BY: 018617 JACK HUNTINGTON
LOC ON FIELD:
REMARKS: APU RECIEVED C CHECK AT ENGINE SHOP VISIT.

.
:12151629 101608 0409

UNITED

PSEN441A-1 UNITED AIRLINES ENGINE MAINTENANCE SYSTEM PAGE 1
11/18/09 COMPOSITION LIST FOR UNIT TIME. 08.01

REASON: REMOVAL REQUESTOR: PSEN440A PHONE: ORG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V607 MODULE TYPE MODULE NAME WORK CENTER 551

WORK CENTER. 551 TSLV. 02559 CSLV. 03452 TSLM. 02559 CSLM: 03452

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V607	N664UA	APU	LAX	APU HANGING UP W/25KRPM/CHIP DETTR METAL	11/18/09

UNIT ACCUMULATIONS

		LIMITS THIS EMO	LIMITS WTY
14084 TSN	17883 CSN		

UNIT'S COMPOSITION

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	LIMITS WTY
DRIVEN COMP SE	F	P-1902	13988 TSN 02559 TSMDPI	21489 CSN 03452 CSMDPI	02559 TSMI	03452 CSMI		
POWER SECTION	N	P-1983	15166 TSN 02559 TSMDPI	18476 CSN 03452 CSMDPI	02559 TSMI	03452 CSMI		
GEARBOX ASSEMBLY	A	P-1490	26230 TSN 02559 TSMDPI	32130 CSN 03452 CSMDPI	02559 TSMI	03452 CSMI		

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	LIMITS WTY	UNATH PRI
05650 001	P-12650	UNK TSN	UNK CSN	02559 TSDPI			
FAN -SHROUDED R	3615959-6-6001	03452 CSDPI					

REASON: REMOVAL — REQUESTOR: PSEN440A — PHONE: — ORG:
SERIAL NUMBER 62697 — ENGINE TYPE V — ENGINE NAME APU331 — CUST CODE UA
ORDER NUMBER V607 — MODULE TYPE — MODULE NAME — WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER CODE	CUST
62697	V		APU331		UA UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V607	N564UA	APU	LAX	APU HANGING UP W/25%RPM/CHIP DETTR METAL	11/18/09

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	LIMITS WTY
DRIVEN COMP SE	F	P-1902	13988 TSN	21489 CSN	02559 TSMI	03452 CSMI		
			02559 TSMDPI	03452 CSMDPI				

FUNC NAME	POS	SERIAL NBR / PART NUMBER	FUNCTION ACCUMULATIONS				LIMITS THIS EMO	LIMITS WTY	UNATH PRT
00988 001		1968	UNK TSN	UNK CSN	02559 TSDPI				
IGV ASSY VARIBL		3810231-21	03452 CSDPI	UNK TSS-9088					
00989 001		1-501-1749	17924 TSN	15629 CSN	02559 TSDPI				
IMPELLER-DRCOMP		3822080-3	03452 CSDPI						
05780 001		021998-670	UNK TSN	UNK CSN	02559 TSDPI				
BRNG-D/C THRUST		3813827-1	03452 CSDPI						
05746 001		049100-146	UNK TSN	UNK CSN	02559 TSDPI				
BRNG-D/C ROLLER		3822099-1	03452 CSDPI						

REASON: REMOVAL REQUESTOR: PSEN440A PHONE: ORG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V607 MODULE TYPE MODULE NAME WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V607	N564UA	APU	LAX	APU HANGING UP W/25%RPM/CHIP DETTR METAL	11/18/09

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	LIMITS WTY
POWER SECTION	N	P-1983	15166 ISN	18476 CSN	02559 TSMI	03452 CSMI		
			02559 TSMDPI	03452 CSMDPI				

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS				LIMITS THIS EMO	LIMITS WTY	UNATH PRT
05719 001	041998-172	UNK TSN	UNK CSN	02559 TSDPI				
BRNG,P/S-THRUST	3613827-1	03452 CSDPI						
05720 001	96-3378	UNK TSN	UNK CSN	02559 TSDPI				
BRNG,P/S-ROLLR	3822099-1	03452 CSDPI						
00994 001	2-501-3106	33008 TSN	28160 CSN	02559 TSDPI				
C1 COMP IMPELLR	3822067-2	03452 CSDPI						
00995 001	8-3076	22468 TSN	30286 CSN	02559 TSDPI				
C2 COMP IMPELLR	3822068-1	03452 CSDPI						
01002 001	10407	UNK TSN	UNK CSN	02559 TSDPI				
COMB CHMBANNULR	3830051-5	03452 CSDPI						
01005 001	TC14-245	02559 TSN	03452 CSN	02559 TSDPI			YES	
T1 STATOR VANE	E3844038-4	03452 CSDPI						
01009 001	0734504903	02559 TSN	03452 CSN	02559 TSDPI			YES	
T2 WHEEL ASSY	3840022-4	03452 CSDPI						
01007 001	9650104048	12408 TSN	14862 CSN	05900 TSDPI	X			
DISK T2 TURBINE	3840007-1	07510 CSDPI						
01004 001	9835702680	11142 TSN	18309 CSN	02559 TSDPI				
DISK T1 TURBINE	3840019-1	03452 CSDPI						
01014 001	UA00459957	UNK TSN	UNK CSN	02559 TSDPI				
NOZZLE SET PRIM	331NOZPRI1	03452 CSDPI						

REASON: REMOVAL REQUESTOR: PSEN440A PHONE: ORG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V607 MODULE TYPE MODULE NAME WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER CODE	CUST	
62697		V	APU331		UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V607	N564UA	APU	LAX	APU HANGING UP W/25%RPM/CHIP DETTR METAL	11/18/09

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS	LIMITS THIS EMO	WTY	UNATH PRT
01015 001	UA00459958	UNK TSN UNK CSN 02559 TSOPI			
NOZZLE SET SECD	331N02SEC1	09462 CSOPI			

REASON: REMOVAL REQUESTOR: PSEN440A PHONE: ORG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V607 MODULE TYPE MODULE NAME WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697		V	APU331	2000	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V607	N564UA	APU	LAX	APU HANGING UP W/25%RPM/CHIP DETTR METAL	11/18/09

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	LIMITS WTY
GEARBOX ASSMBLY	A	P-1490	26230 TSN	32130 CSN	02559 TSMI	03452 CSMI		
			02559 TSMOPI	03452 CSMOPI				

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	LIMITS WTY	UNATH PRT
00987 001	DP-001458	24518 TSN	31974 CSN	02559 TSOPI			
GEARBOX HOUSING	3862599-3	03452 CSOPI					

* * * END OF REPORT FOR ENG - V MT - SN - 62697 * * *

UNITED

PSEN443A 11/18/09

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
LIMIT PLANNING REPORTS FOR UNIT

REASON: AT REMOVAL — REQUESTOR: REMOVAL — PHONE: — ORG:
SERIAL NUMBER 62697 — ENGINE TYPE V — ENGINE NAME APU331 — CUST CODE UA
ORDER NUMBER V607 — MODULE TYPE — MODULE NAME — WORK CENTER 551

WORK CENTER 551 TSN: 14084 CSN. 17883 TSLM. 02559 CSLM. 03452 TSLV: 02559 CSLV: 03452

SERIAL NBR	ET	MT	NAME	POWER	CUST	LIMIT TYPE	LIMIT VALUE	UNIT ACCUMULATION	REMAINING VALUE	LIMIT IN NLA UNIT	HARD LIMIT NLA LOWEST REMAINING
62697	V		APU331	200E	UA					X	C 01691

ORDER NUMBER	REASON REMOVED OR MAINTENANCED	DATE MAINT
V607	APU HANGING UP W/25%RPM/CHIP DETTR METAL	11/18/09

MODULE LIMIT SUMMARY - HARD AND THRESHOLD

NAME	MT	SERIAL NBR	COMMENTS	LIMIT TYPE	LIMIT VALUE	MODULE ACCUMULATION	REMAINING VALUE	LIMIT IN NLA UNIT	HARD LIMIT NLA LOWEST REMAINING
DRIVEN COMP SE	F	P-1902		X	007000	02559 TSMDPI	04441		
				X	007000	03452 CSMDPI	03548		
POWER SECTION	N	P-1883		X	005000	02559 TSMDPI	02441	X	
				X	005000	03452 CSMDPI	01548		C 01691
GEARBOX ASSMBLY	A	P-1490		X	008000	02559 TSMDPI	05441		

REASON: AT REMOVAL — REQUESTOR: REMOVAL — PHONE: — ORG:
SERIAL NUMBER 62697 — ENGINE TYPE V — ENGINE NAME APU331 — CUST CODE UA
ORDER NUMBER V607 — MODULE TYPE — MODULE NAME — WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST
62697	V		APU331	200E	UA

ORDER NUMBER	REASON REMOVED OR MAINTENANCED	DATE MAINT
V607	APU HANGING UP W/25%RPM/CHIP DETR METAL	11/18/09

FUNCTION LIMITS BY NHA - HARD AND THRESHOLD

NHA NAME DRIVEN COMP SE — MT P — SERIAL NBR P-1902

FUNC NAME	POS	SERIAL NBR / PART NUMBER	COMMENTS	LIMIT TYPE	LIMIT VALUE	FUNCTION ACCUMULATION	REMAINING VALUE
00989	001	1-501-1749	(1-03501-1749) #V379	X	010000	02559 TSDPI	07441
IMPELLER-DRCOMP		9822080-3					

NHA NAME POWER SECTION — MT N — SERIAL NBR P-1902

FUNC NAME	POS	SERIAL NBR / PART NUMBER	COMMENTS	LIMIT TYPE	LIMIT VALUE	FUNCTION ACCUMULATION	REMAINING VALUE
01009	001	0734504903	NV376	H	025000	03452 CSN	21548
T2 WHEEL ASSY		3840022-4		B	012000	03452 CSN	08548
01007	001	9550104048	OLD S/N 9503504048	H	020000	14862 CSN	05138
DISK T2 TURBINE		3840007-1		X	005000	05900 TSDPI	******
				X	005000	07510 CSDPI	******
01004	001	9835702680		H	020000	18309 CSN	01691
DISK T1 TURBINE		3840019-1		X	005000	02559 TSDPI	02441
				X	005000	03452 CSDPI	01548
01014	001	UA00459957	NV376	A	006000	02559 TSDPI	03441
NOZZLE SET PRIM		331NOZPRI1		B	003000	02559 TSDPI	00441

REASON: AT REMOVAL — REQUESTOR: REMOVAL — PHONE: — ORG:
SERIAL NUMBER 62697 — ENGINE TYPE V — ENGINE NAME APU331 — CUST CODE UA
ORDER NUMBER V607 — MODULE TYPE — MODULE NAME — WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST
62697	V		APU331	200E	UA

ORDER NUMBER	REASON REMOVED OR MAINTENANCED	DATE MAINT
V607	APU HANGING UP W/25%RPM/CHIP DETTR METAL	11/18/09

FUNCTION LIMITS BY NHA - HARD AND THRESHOLD

NHA NAME — MT — SERIAL NBR

POWER SECTION — M — P-1983

FUNC NAME	POS	SERIAL NBR / PART NUMBER	COMMENTS	LIMIT TYPE	LIMIT VALUE	FUNCTION ACCUMULATION	REMAINING VALUE
C1016	001	UA00459868	NV378	A	008000	02559 TSDPI	03441
NOZZLE SET SECD		934N025EC1		B	003000	02559 TSDPI	00441

UNITED

PSEN443A
11/18/09

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
THRESHOLD LIMIT REPORTS FOR UNIT

REASON: AT REMOVAL
SERIAL NUMBER 62697
ORDER NUMBER V607

ENGINE TYPE V
MODULE TYPE

REQUESTOR: REMOVAL
ENGINE NAME APU331
MODULE NAME

PHONE:
ORG:
CUST CODE UA
WORK CENTER 551

WORK CENTER. 551 TSN: 14084 CSN. 17883 TSLM. 02559 CSLM: 03452 TSLV. 02559 CSLV: 03452

SERIAL NBR	ET	MT	NAME	POWER	CUST	LIMIT TYPE	UNIT ACCUMULATION	N/A LIMITS THIS EMO
62697	V		APU331	200E	UA			X

ORDER NUMBER	REASON REMOVED OR MAINTENANCED	DATE MAINT
V607	APU HANGING UP W/25%RPM/CHIP DETTR METAL	11/18/09

MODULE THRESHOLD LIMIT SUMMARY

NAME	MT	SERIAL NBR	COMMENTS	LIMIT TYPE	MODULE ACCUMULATION	N/A LIMITS THIS EMO
POWER SECTION	N	P-1983				X

REASON: AT REMOVAL
SERIAL NUMBER 62697 ENGINE TYPE V REQUESTOR: REMOVAL PHONE: ORG:
ORDER NUMBER V607 MODULE TYPE ENGINE NAME APU331 CUST CODE UA
MODULE NAME WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST
62697	V		APU331	2005	UA

ORDER NUMBER V607

REASON REMOVED OR MAINTENANCED: APU HANGING UP W/26KRPM/CHIP DETTR METAL

DATE MAINT: 11/18/09

FUNCTION THRESHOLD LIMITS BY NHA

NHA NAME MT SERIAL NBR
POWER SECTION N P-1983

FUNC NAME	POS	SERIAL NBR / PART NUMBER	COMMENTS	LIMIT TYPE	LIMIT VALUE	FUNCTION ACCUMULATION
Q1007	001	9650104048	OLD S/N 9803504048	X	005000	05900 TSOPI
DISK T2 TURBINE		9840007-1		X	005000	07510 CSOPI

UNITED

PSEN443A 11/18/09

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
DISC SHEET AND HARD LIMIT REPORT

REASON: AT REMOVAL
SERIAL NUMBER 62697 ENGINE TYPE V REQUESTOR: REMOVAL PHONE: ORG:
ORDER NUMBER V607 MODULE TYPE ENGINE NAME. APU331 CUST CODE UA
MODULE NAME WORK CENTER 551

WORK CENTER. 551 TSN. 14084 CSN. 17883 TSLM: 02559 CSLM. 03452 TSLV. 02559 CSLV. 03452

SERIAL NBR	ET	MT	NAME	POWER	CUST	LIMIT VALUE	HARD LIMIT UNIT	ACCUMULATION	REMAINING VALUE	NLA LOWEST REMAINING VALUE
62697	V		APU331	200E	UA					C 01691

ORDER NUMBER	REASON REMOVED OR MAINTENANCED	DATE MAINT
V607	APU HANGING UP W/25%RPM/CHIP DETTR METAL	11/18/09

MODULE HARD LIMIT SUMMARY

NAME	MT	SERIAL NBR	COMMENTS	LIMIT VALUE	HARD LIMIT MODULE ACCUMULATION	REMAINING VALUE	NLA LOWEST REMAINING VALUE
POWER SECTION	N	P-1983					C 01691

REASON: AT REMOVAL — REQUESTOR: REMOVAL — PHONE: — ORG:
SERIAL NUMBER 62697 — ENGINE TYPE V — ENGINE NAME APU331 — CUST CODE UA
ORDER NUMBER V607 — MODULE TYPE — MODULE NAME — WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST
62697	V		APU331	2005	UA

ORDER NUMBER	REASON REMOVED OR MAINTENANCED	DATE MAINT
V607	APU HANGING UP W/26%RPM/CHIP DETTR METAL	11/18/09

FUNCTION HARD LIMITS BY NHA

NHA NAME — MT — SERIAL NBR

POWER SECTION — N — P-1983

FUNC POS NAME	SERIAL NBR PART NUMBER	HARD LIMIT VALUE	FUNCTION ACCUMULATION		REMNG VALUE	REPLACE YES	REPLACE NO	ASSIGNED SERIAL NO	REM HRS	LIFE CYLS	DISC DISP
01009 001 T3 WHEEL ASSY	0734604909 3840022-4	025000	03462	CSN	21548						
01007 001 DISK T2 TURBINE	9650104048 3840007-1	020000	14862	CSN	05138						
01004 001 DISK T1 TURBINE	9835702680 3840019-1	020000	18309	CSN	01691						

REASON: AT REMOVAL
SERIAL NUMBER 62697 ENGINE TYPE V REQUESTOR: REMOVAL PHONE: ORG:
ORDER NUMBER V607 MODULE TYPE MODULE NAME CUST CODE UA
EFFECTIVE MODEL V-UA-ESV WORK CENTER 551

ALL LIFE LIMITED PARTS MEET BUILD LIMITS

TIME REMAINING DOES NOT MEET TEARDOWN GOALS

FUNC NBR	NOUN	SERIAL NUMBER	PART NUMBER	HOURS GOAL /REMAIN	CYCLES GOAL /REMAIN
01004	DISK T1 TURBINE	9835702680	3840019-1	NONE /	3500/01691

*** END OF REPORT FOR ENG - V MT - SN - 62697

*** END OF REPORT ***

UNITED

PSEN441A-1 UNITED AIRLINES ENGINE MAINTENANCE SYSTEM PAGE 1
02/15/10 COMPOSITION LIST FOR UNIT TIME. 08.01

REASON: INSTALLATION REQUESTOR: WOCOMP PHONE: ORG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V607 MODULE TYPE MODULE NAME WORK CENTER 551

WORK CENTER. 551 TSLV. 02559 CSLV: 03452 TSLM. 02559 CSLM: 03452

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697	V		APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V607	N664UA	APU	LAX	APU HANGING UP W/25%RPM/CHIP DETTN METAL	11/18/09

UNIT ACCUMULATIONS

14084 TSN 17883 CSN

			LIMITS THIS EMO	WTY
02559 TSMI	03452 CSMI			
02559 TSMDPI	03452 CSMDPI			

UNIT'S COMPOSITION

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	WTY
DRIVEN COMP SE	F	P-1902	13988 TSN	21489 CSN	02559 TSMI	03452 CSMI		
			02559 TSMDPI	03452 CSMDPI				
POWER SECTION	N	P-1983	15166 TSN	18476 CSN	02559 TSMI	03452 CSMI		
			02559 TSMDPI	03452 CSMDPI				
GEARBOX ASSMBLY	A	P209	23377 TSN	30748 CSN	00000 TSMI	00000 CSMI		
			00000 TSMDPI	00000 CSMDPI				

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS				LIMITS THIS EMO	WTY	UNATH PRI
05660 001	P-1122	UNK TSN	UNK CSN	00000 TSDPI				
FAN -SHROUDED R	3616859-6	00000 CSDPI						

REASON: INSTALLATION — REQUESTOR: MOCOMP — PHONE: — ORG:
SERIAL NUMBER 62697 — ENGINE TYPE V — ENGINE NAME APU331 — CUST CODE UA
ORDER NUMBER V607 — MODULE TYPE — MODULE NAME — WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697	V		APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V607	N564UA	APU	LAX	APU HANGING UP W/25%RPM/CHIP DETTR METAL	11/18/09

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS			LIMITS THIS EMO	LIMITS WTY
DRIVEN COMP SE	F	P-1902	13988 TSN	21489 CSN	02559 TSMI	03452 CSMI	
			02559 TSNDPI	03452 CSNDPI			

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	LIMITS WTY	UNATH PRT
00988 001	1983	UNK TSN	UNK CSN	02559 TSDPI			
IGV ASSY VARIBL	3810221-21	03452 CSDPI	UNK TSS-SDBD				
00989 001	1-501-1749	17924 TSN	15629 CSN	02559 TSDPI			
IMPELLER-DRCOMP	3822080-3	03452 CSDPI					
05760 001	021998-670	UNK TSN	UNK CSN	02559 TSDPI			
BRNG-D/C THRUST	3813827-1	03452 CSDPI					
05746 001	0591410110	UNK TSN	UNK CSN	00000 TSDPI			
BRNG-D/C ROLLER	3822099-1	00000 CSDPI					

REASON: INSTALLATION
SERIAL NUMBER 62697
ORDER NUMBER V607

ENGINE TYPE V
MODULE TYPE

REQUESTOR: MOCOMP
ENGINE NAME APU331
MODULE NAME

PHONE:
CUST CODE UA
WORK CENTER 551

ORG:

SERIAL NBR	ET	MI	NAME	POWER	CUST	
62697		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V607	N564UA	APU	LAX	APU HANGING UP W/25%RPM/CHIP DEITR METAL	11/18/09

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS			LIMITS THIS EMO	LIMITS WTY
POWER SECTION	N	P-1983	15166 TSN	18476 CSN	02559 TSMI 03452 CSMI		
			02559 TSNDPI	03452 CSNDPI			

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	LIMITS WTY	UNATH PRT
05719 001 BRNG,P/S-THRUST	041998-172 3613827-1	UNK TSN 03452 CSDPI	UNK CSN	02559 TSDPI			
05720 001 BRNG,P/S-ROLLR	96-3378 3822099-1	UNK TSN 03452 CSDPI	UNK CSN	02559 TSDPI			
00993 001 C1 COMP IMPELLR	2-501-3108 3822067-2	33008 TSN 03452 CSDPI	25160 CSN	02559 TSDPI			
00995 001 C2 COMP IMPELLR	8-3076 3822068-1	22468 TSN 03452 CSDPI	30286 CSN	02559 TSDPI			
01002 001 COMB CHMBANNULR	10407 3830051-5	UNK TSN 03452 CSDPI	UNK CSN	02559 TSDPI			
01005 001 T1 STATOR VANE	TC14-245 E3844038-4	02559 TSN 03452 CSDPI	03452 CSN	02559 TSDPI		YES	
01009 001 T3 WHEEL ASSY	0734504903 3840022-4	02559 TSN 03452 CSDPI	03452 CSN	02559 TSDPI		YES	
01007 001 DISK T2 TURBINE	9650104048 3840007-1	12408 TSN 07510 CSDPI	14862 CSN	05900 TSDPI	X		
01004 001 DISK T1 TURBINE	9838702680 3840019-1	11142 TSN 03452 CSDPI	18309 CSN	02559 TSDPI			
01014 001 NOZZLE SET PRIM	UA00459957 331NOZPRI1	UNK TSN 03452 CSDPI	UNK CSN	02559 TSDPI			

REASON: INSTALLATION — REQUESTOR: MOCOMP — PHONE: — ORG:
SERIAL NUMBER 62697 — ENGINE TYPE V — ENGINE NAME APU331 — CUST CODE UA
ORDER NUMBER V607 — MODULE TYPE — MODULE NAME — WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697	V		APU331	2CDE	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V607	N564UA	APU	LAX	APU HANGING UP W/25%RPM/CHIP DETTR METAL	11/18/09

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS	LIMITS THIS EMO	WTY	UNATH PRT
01015 001	UA00459958	UNK TSN UNK CSN 02559 TSDPI			
NOZZLE SET SECD	331NOZSEC1	09452 CSOPI			

REASON: INSTALLATION REQUESTOR: MOCOMP PHONE: ORG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V607 MODULE TYPE MODULE NAME WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697	V		APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V607	N564UA	APU	LAX	APU HANGING UP W/25%RPM/CHIP DETTR METAL	11/18/09

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	LIMITS WTY
GEARBOX ASSMBLY	A	P209	23377 TSN	30748 CSN	00000 TSMI	00000 CSMI		
			00000 TSMDPI	00000 CSMDPI				

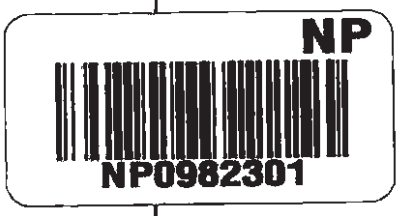
FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS				LIMITS THIS EMO	LIMITS WTY	UNATH PRT
00987 001	9P-16254	UNK TSN	UNK CSN	00000 TSDPI				
GEARBOX HOUSING	3862699-3	00000 CSDPI						

* * * END OF REPORT FOR ENG - V MT - SN - 62697 * * *

Index Form

E4/23/15
2:43 06 PM

Doc. Type:	TAG
Tracking Number:	NP0982301
Activity Date:	12/14/09
Doc Number:	EON: V607
Ref Doc:	
Aircraft Number:	
MFG P/N:	
M&E :	
S/N:	2697
OP Step:	
Station:	
ATA Code:	
Fleet:	
Vendor Code:	
Package Type:	ESV
Package Date:	12/14/09
Comments:	APU-200
PREPPED BY :	RITA PAZ — YOUR NAME HERE
PREPPED DATE:	4/3/2015 — TODAY'S DATE



UAL ENGINE / APU ROM Index
Vendor Imaging Systems Control Sheet Version

Section	Item		Description
1	01	☐	Certification form for Scan
2	01	☑	Serviceable Engine & Module Tag
	02	☑	Engine I & R Tags
	03	☑	Module I & R Tags
	04	☑	Non Routine's
	05	☐	Engine Customer Maintenance Tags
	06	☐	Module Customer Maintenance Tags
3	01	☐	Engine Job Instruction Cards
4	01	☐	Module Job Instruction Cards

A	B	C	D	E	F	G
H	I	J	K	L	M	N
P	Q	R	S	T	U	V
W	X	Y				

5	01	☐	COA'S
6	01	☐	Engine Inspection & Condition Sheet, Miscellaneous Documents
	02	☐	Fulfillment Center ICS
7	01	☐	Module Inspection & Condition Sheet

A	B	C	D	E	F	G
H	I	J	K	L	M	N
P	Q	R	S	T	U	V
W	X	Y				

8	01	☐	AD Verification - Checklist
	02	☐	Unit Hard Limit Report
9	01	☐	Final Accountability and Test Cell JIC's
10	01	☐	D-199 (Records Certification)
	02	☐	8130 or ENGVST meter (Engine Certification)
11	01	☐	Customer Documents
12	01	☐	Removal Composition Report
	02	☐	Limit Planning Report
	03	☐	Installation Composition Report

AV578 6962

UNITED
I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-9104	3862180-21-4004	GBX AY.	DASH NO ON	MFG SER NO 9209 / UTSO

MAINT SHOPS	PS															
		E74	552	LEAD 552								E74				
I193A	X	T193A	7066	6962								HOME SHOP	SHIP CONT	BATCHABLE	R	
												DATE SERVICEABLE 12-08-09		QUANTITY 1		

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		V607/62697	P	APU	12 14 09	SFOPB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME
2 ☐ TROUBLE
3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED.

SIGNATURE (OR STAMP) & FILE NO. 5672

7066 Mio Graal

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY I209A
ON √607

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE_____ DATE_____ SIGNATURE AND FILE NO _____

SHIP IN CONTAINER
RCS CONTROLLED PART

UNITED
I & R TAG

PCN	PART NO	NAME	DASH NO OFF	SER NO IF NO DASH
643	0560	HR47532 VALVE	DASH NO ON -161	MFG SER NO 1554

UTSO: 3

MAINT SHOPS	PS										HOME SHOP	SHIP CONT	BATCHABLE
	U	872	N35	878							878	RI	N M
	X			VENDOR REPAIRED							DATE SERVICEABLE 04Dec2009		QUANTITY 1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA. 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE *	POSITION	DATE	STA
		V607/62697	P	APU	12 14 09	SFOPB

REMOVAL CODE SEE BACK OF YELLOW STUB
1 ☐ TIME
2 ☐ TROUBLE
3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE
B-767 FRM/PIM---INSTALLED.

SIGNATURE (OR STAMP) & FILE NO.
Nino Spacil 5672

REPORTABLE UNIT-MRDATA TRANSACTION REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIRED BY OSV VENDOR WORK REC AND 8130-3 ON FILE P/O # 5988780975

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL? 5 ☐ YES 6 ☐ NO

IF YES WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE - OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAPS/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

RLS CONTROLLED PART

PCN	PART NO	NAME	DASH NO OFF	SER NO IF NO DASH
247	0157	MRAD11E MODULE	DASH NO ON 197	MFG SER NO 5X999 1A / UTSO 6

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE
	☐	P76	N25	976								E76	007	N C
	X				VENDOR REPAIRED							DATE SERVICEABLE 05 Dec 20		QUANTITY 1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE	POSITION	DATE	STA
		V607/62697	P	APU	12/14/09	SFOPB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

B-767 FPM/FIN ----- INSTALLED.

SIGNATURE (OR STAMP) & FILE NO

Miro Spasic 5672

REPORTABLE UNIT-MRDATA TRANSACTION REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

REPAIRED BY OSV VENDOR WORK REC AND 8130-3 ON FILE P/O #

S 9887609440

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL? 5 ☐ YES 6 ☐ NO

IF YES WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP GREEN TINTED LINE - OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAPS/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

RCS CONTROLLED PART

UNITED
I & R TAG

PCN	PART NO.	NAME	DASHED NO OFF	SER NO IF NO DASH
563	4050 9F15098-505	HARNESS	DASH NO ON —	MFG SER NO — / UTSO —

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	
	7	151										151	000	N	B
	X	8										DATE SERVICEABLE 12-8-09		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		V607/62697	P	APU	12/14/09	SFO PB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

B-767 FRM·FIM----INSTALLED.

SIGNATURE (OR STAMP) & FILE NO.

Miro Spaak 5672

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TA

SERVICEABLE UNIT REMARKS N THIS AREA

Per Dwg 9F15098-505

EPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

ROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

RCS CONTROLLED PART

UNITED
I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
643 1179	3876166-1	VALVE	DASH NO ON: -	MFG SER NO: 3060

UTSO:

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
		876	N35	876								876	000	N	E
	X	VENDOR INSPECTED										DATE SERVICEABLE: 04N25-09		QUANTITY: 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		V607/62697	P	APU	12 14 09	SFO B

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

B-767 FRM/FIM----INSTALLED.

SIGNATURE (OR STAMP) & FILE NO.

Mira Spacil 05672

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
JNIT REMARKS
N THIS AREA

INSPECTED BY OSV VENDOR WORK REC AND 8130-3 ON FILE P/O # 5988760830 2

EPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

ROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

RCS CONTROLLED PART

HARD TIME UNIT-SERVICEABLE

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
643 0129	3289504-2-600U	VALV	DASH NO ON —	MFG SER NO PL 101

MAINT SHOPS	RS											MFG SER NO	UTSO		
	0	878	N35	878								878 HOME SHOP	000 SHIP CONT	N BATCHABLE	M R
	X		VENDOR REPAIRED									DATE SERVICEABLE 05 NOV 09		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		V607/62097	P	APU	12/14/09	SFOPB

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

B-767 FRM/FIM-----/INSTALLED.

SIGNATURE (OR STAMP) & FILE NO

Miro Spacil 05672

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

REPAIRED BY OSV VENDOR WORK REC AND 8130-3 ON FILE P/O # 5988 760 9761

EPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

ROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

* RCS CONTROLLED PART *

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
643 - 0130	3616848-2	VALVE	DASH NO ON	MFG SER NO 0716 / UTSO

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
	PS	263										263	000	N	
	X	Vendor Inspected										DATE SERVICEABLE 29 OCT. 09		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		V607/62697	P	APU	12/14/09	SFOPB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED.

RETURN UNSERVICEABLE UNIT TO ORDJJV

SIGNATURE (OR STAMP) & FILE NO.

Mike Sproul 5672

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TA

REPAIRED BY OSV / VENDOR WORK REC & 8130-3 ON FILE PO# S 9826308351

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIR SHOP DATA - *(REQUIRED FOR MR UNITS)*

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE *BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG*

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE_____ DATE_____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265 9106	3616959-6	FAN	DASH NO ON	MFG SER NO P-1122

UTSO: 0

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
I342	X	I342										551			

DATE SERVICEABLE: 12/11/09 QUANTITY: 1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		V607/62697	9	APU	12/14/09	SFOPB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED.

SIGNATURE (OR STAMP) & FILE NO

Miro Spaul 5672

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

I342

CN V607

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO.	NAME	DASHED NO OFF	SER NO IF NO DASH
2850429	3600053-1	PLUG	DASH NO ON	MFG SER NO — UTSO 6

MAINT SHOPS	PS	HOME SHOP	SHIP CONT	BATCHABLE
I342	XI342 E14	551		

DATE SERVICEABLE	QUANTITY
11/4/09	12

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		AV 578/2332-D		APU	12 4 09	SFOB

REMOVAL CODE - SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

7066 100435

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

FTN - 67141I209A

UNITED
I & R TAG

PCN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
	3862699-3	HSNG-Assy Grbx	DASH NO ON	MFG SER NO 9P-16254 / UTSO 0

MAINT SHOPS	PS												HOME SHOP	SHIP CONT	BATCHABLE	R
		E24											E24			
I209A	X	I209A											DATE SERVICEABLE 12-2-9		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		AV 578/62332-P		APU	12 4 09	SFOPS

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME
2 ☐ TROUBLE
3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO.

7066 100435

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY I209A
ON Av578

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED

I & R TAG

PCN	PART NO.	NAME	DASHED NO OFF	SER NO IF NO DASH
265 04462	3822099-1	BEARING	DASH NO ON	MFG SER NO: 05914101 10

UTSO: Ø

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE	R
I342	X	E74 I342										551			

DATE SERVICEABLE	QUANTITY
12/8/09	1EA

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISGO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE*	POSITION	DATE	STA
		V607	P	APU	12/9/09	SFOAS

REMOVAL CODE SEE BACK OF YELLOW STUB

1 ☐ TIME

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

Installed only

SIGNATURE (OR STAMP) & FILE NO.

7066 100435

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

I342
FV607

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE_____ DATE_____ SIGNATURE AND FILE NO _____

-MOVE, SHIP & STORE IN CONTAINER ◄ DANGEROUS GOODS
PCS CONTROLLED PART

PCN	PART NO	NAME	DASH NO OFF	SER NO IF NO DASH
645	0052 MR49513	ACTUATOR	DASH NO ON -41	MFG SER NO 0050 / UTSO G

MAINT SHOPS	PS											HOME SHOP	SHIP CONT	BATCHABLE
		552	LEAD									552	GR-	N H
6334X		6334 0962										DATE SERVICEABLE 12 15 09		QUANTITY 1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL (AIR CARRIER UALA011A & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TSO	NHA PCN AND DASH NO	NHA CODE	POSITION	DATE	STA
		V607/62697	P	ARU	12/16/09	SFOPB

REMOVAL CODE SEE BACK OF YELLOW STUB
1 ☐ TIME
2 ☐ TROUBLE
3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE
B-767 FRM/FIM------INSTALLED.

SIGNATURE (OR STAMP) & FILE NO
Mino Grace 567

REPORTABLE UNIT-MRDATA TRANSACTION REQUIRED

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL? 5 ☐ YES 6 ☐ NO

IF YES WHAT CAUSED FAILURE?

ALL RMVLS

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP GREEN TINTED LINE OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAPS/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

STALL NO.	ENGINE NO.	ORDER NO.	ORIGINATOR	PRIORITY
1	62647	V607	Mankville	1

DATE	NOSE COWL	COLD SECT	HOT SECT	EXH ASSY
12-2-04	☐	☐	☐	☒

MUFFLER

INSR LEAD	MECH
1366	
L962	L962

Muffler cracked

CORRECTIVE ACTION Welded crack per Repair 49-24-16 / AR12

099412

PROCESSED BY -007190

SPECIAL COST NO

PARTS INFORMATION

MECHANIC'S SIGNATURE	SHIFT	DATE	WORK ACCOMPLISHED

STALL NO.	ENGINE NO	ORDER NO.	ORIGINATOR	PRIORITY
1	62697	0607	Meadville	1

DATE	NOSE COWL	COLD SECT	HOT SECT	EXH ASSY	
12-2-09	☐	☒	☐	☐	Cooling Fan Blade Broke

INSP LEAD	MECH	
I366		1 BLADE ON FAN BROKEN
Q962	6626	CORRECTIVE ACTION INSTALLED NEW COOLING FAN.

PROCESSED BY Stech-007190

SPECIAL COST NO

099411

PARTS INFORMATION

MECHANIC'S SIGNATURE	SHIFT	DATE	WORK ACCOMPLISHED

STALL NO	ENGINE NO	ORDER NO	ORIGINATOR	PRIORITY
1	62697	V607	G.MOK	1

DATE	NOSE COWL	COLD SECT	HOT SECT	EXH ASSY
12/3/2009	☐	☐	☒	☐

INSP

1 OPEN INSPECTION OF LOAD COMPRESSOR DUE TO REPLACEMENT OF FWD (FRONT) SEAL, ROTOR AND BEARING.

I342

CORRECTIVE ACTION

INSPECTED IAW EID 60-49-25-00 I342

099195

PERFORMED BY -007190

SPECIAL COST NO.

MECHANIC'S SIGNATURE	SHIFT	DATE	WORK ACCOMPLISHED

STALL NO.	ENGINE NO.	ORDER NO.	ORIGINATOR	PRIORITY
1	62697	V607	G.MOK	1

DATE	NOSE COWL	COLD SECT	HOT SECT	EXH ASSY
12/3/2009	☐	☐	☒	☐

INSP LEAD	MECH	
371TL		1. REPLACE LOAD COMPRESSOR FRONT SEAL, ROTOR AND BEARING.
6668	7066	CORRECTIVE ACTION: Replaced load compressor front seal, rotor and bearing.

PROCESSED BY: [redacted] -007190

SPECIAL COST NO.

099196

PARTS INFORMATION

MECHANIC'S SIGNATURE	SHIFT	DATE	WORK ACCOMPLISHED

Shop Visit
United Airlines - April 2004

9100 S. Dadeland Blvd., Suite 1500, Miami, FL 33156 +1-305-271-6650
info@longreach.com www.longreach.com

START OF PACKAGE CARD

UNITED

RECORDS OF MAINTENANCE

CERTIFICATION FORM

SFOMR/PA Certifies that the *Records of Maintenance* for:

Engine S/N 62697 Order NBR V526

Visit Type ESV is complete and ready for storage and/or microfilming.

Signed _____
(SFOMR - Maintenance Records Specialist)

Date 04/14/04

9/4.17
BOX #

FV518

UNITED
I&R TAG

| | | |

SERVICEABLE
ANTENNAS
IN THIS AREA

ON LOGGED BY
ON V528

EPAIR SHOP DATA – REQUIRED FOR MR UNITS

OUBLE WHILE IN USE CONDITION AGREE WITH REPORTED TROUBLE? 1 YES 2 NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP GREEN TINTED LINE OTHER SIDE OF TAG

DISPOSITION 1 OVERHAULED 2 SERVICEABLE 3 VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE

LV507 I209A L977

UNITED
I & R TAG

P/N	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-3153	3612844-1	Clutch AY - LRU		

DASH NO ON	MFG SER NO	UT&O
		ϕ

WORK SHOP	E74	551	719A	552						551			
										MOVE SHOP	SHP CONT	BATCHABLE	R
I209A X	I209A	719A		L977						DATE SERVICEABLE		QUANTITY	
										2-18-04		1	

THE REPAIRS PERFORMED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN PERFORMED BY THE U.S. CERTIFICATED REPAIR STATION LISTED. THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED. PERTINENT INFO IS ON FILE AT UAL AIRCRAFT ENGINE & COMPONENT MAINTENANCE & REPAIR STATION UAL/ORIA SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

COMPLETE IF PLANE NUMBERED		COMPLETE IF PLANE NOT INVOLVED		COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
		AIRPORT OR CAUTION		TYPE CODE	ROUTING	DATE	STA
		L54E/E2697		P	APU	4,9 E4	SFOPB

REMARKS (USE REVERSE SIDE IF NECESSARY) INTERCHANGEABLE LRU REPORTED TROUBLE FREE

INSTALLED

SIGNATURE (OR STAMP) & FILE NO

Allen Grant C5672

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
WITHDRAWN

REPAIR SHOP DATA - REQ. REC FOR MR UNITS)

TROUBLE REMOVED DOES DISCREPANCY AGREE WITH REPORTED TROUBLE? 1 YES 2 NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

NV 518[illegible]

UNITED
I & R TAG

FSN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-9102	3801063-8	Power Section	DASH NO ON P1375	MFG SER NO / CYCLES Ø

NSN / MOD	FS	E074	851									551 HOUSING	SHP CONT	RAT'CHABLE	R
[illegible]	X	I209A	L962									DATE SERVICEABLE 4-8-04		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS. WHEN SIGNED IN THE CERTIFICATE BLOCK THIS UNIT IS CERTIFIED & AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED. PERTINENT INFO IS ON FILE AT UAL SAN FRANCISCO INTERNATIONAL AIRPORT CA94128

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
		WORK ORDER NO (WO) V528 / 62697	WHEN DISC'D P	POSITION APU	DATE 4 20 04	STA SFO

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO
6956

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

ON LOGGED BY 1209A
ON V528

EPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

ROUBLE SINGLE OUT SOURCE/CAUSE AGREE WITH REPORTED TROUBLE? 1 YES 2 NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO. _____

AVSIB L977

UNITED
I & R TAG

| | | |

SEE INSTRUCTIONS ON REVERSE SIDE

DELIVERED BY

TO V52B

REPAIR SHOP DATA - REQUIRED FOR SRU UNITS

TROUBLE SHOOTING DISPOSITION AGREE WITH REPORTED TROUBLE? 1 YES 2 NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG.

DISPOSITION: 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO. _____

SV518 1977

UNITED I&R TAG

PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-0142	3880160-3 Pump- Scav	CALM NO ON	MFG SER NO: 551	UTSC: 0

| MAINT CHGE | FR | E74 | 551 | | |

SERVICEABLE
PART REMARKS
IN THIS BIN

REPAIR SHOP DATA - REQUIRED FOR MF UNITS

FOUND PART TO BE IN CONDITION AGREE WITH REPORTED TROUBLE? 1 YES 2 NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE OTHER SIDE OF TAG

DISPOSITION: 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO. _____

STALL NO.	ENGINE NO.	ORDER NO.	ORIGINATOR	PRIORITY
	61913	NV518	Huntington	1

DATE	NOSE COWL	COLD SECT	HOT SECT	EXH ASSY
3/17/04	☐	☐	☒	☐

018617

Muffler

UAL NON-ROUTINE SFR 4129 5/78

LEAD I209A WELD

I209A

I209A

1. Aft ID crkd as mrkd.

Ref: 49-24-16-00 AR02

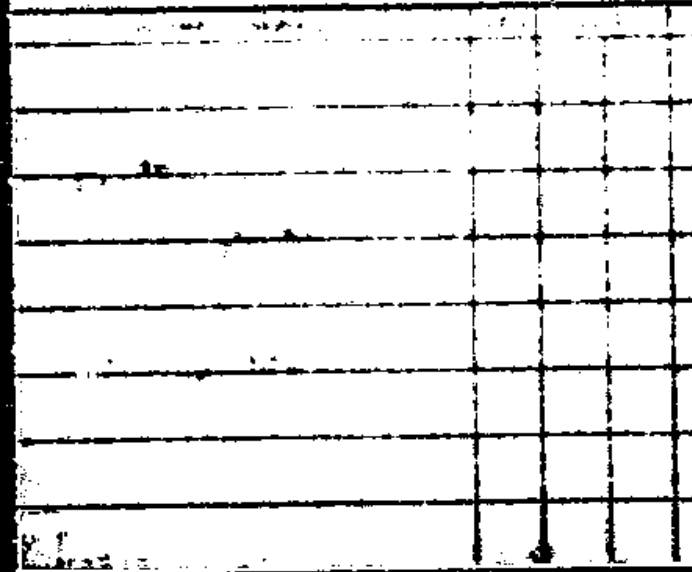
Weld Per 49-24-16 AR02

CORRECTIVE ACTION: Routed for Asset Management to Chromalloy I209A

PROCESSED BY: [illegible] 94444

SPECIAL COST NO.

5649



UAL NON-ROUTINE SFR 4129 5 / 76

STALL NO.	ENGINE NO.	ORDER NO.	DISPOSITION	PRIORITY
	61913	NV518	Stock - 00778	1

DATE	NOSE COWL	COLD SECT	HOT SECT	ESN ASSY
4-8-04	☐	☐	☒	☐

LEAD	MECH
4	

1. PLENUM DRAIN VLV MISSING.

PER 49-20-02-SP

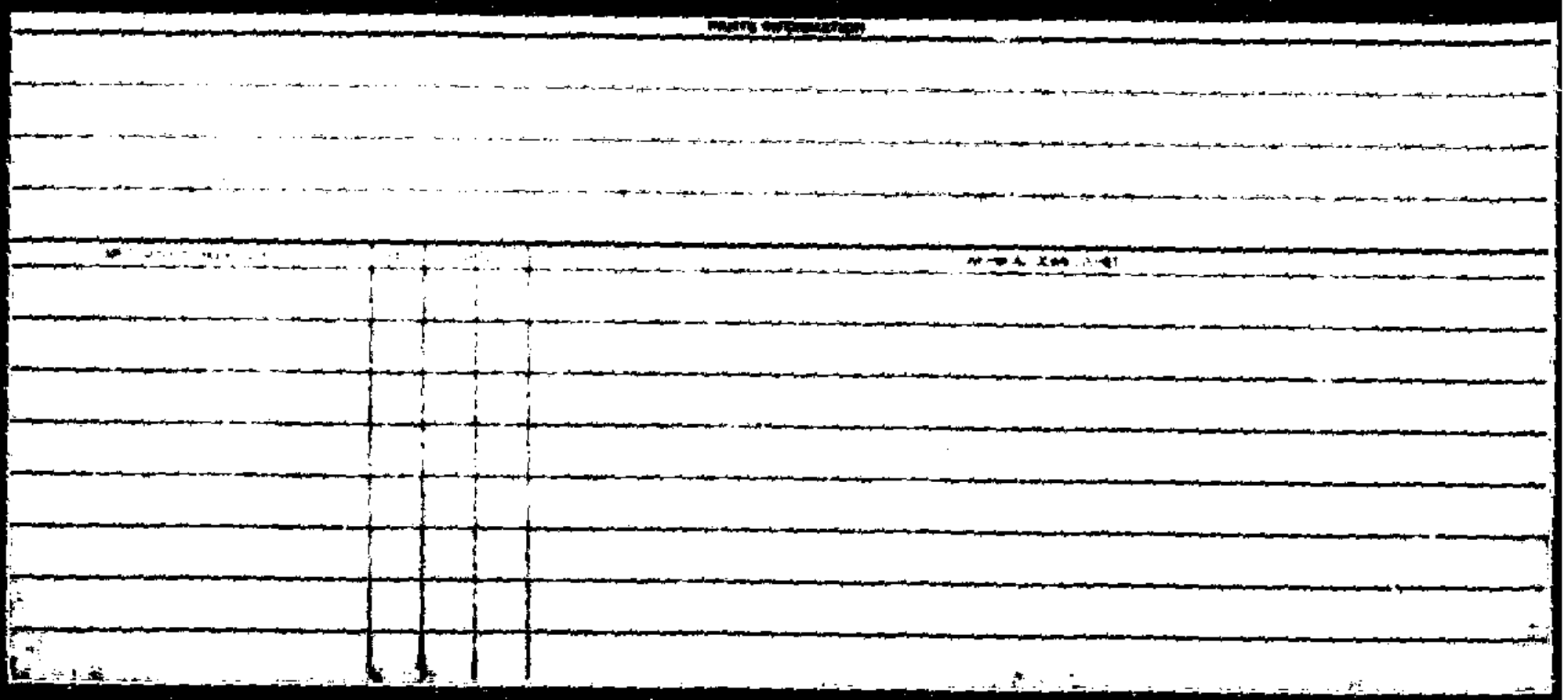
CORRECTIVE ACTION: INSTALLED PER ABOVE [signature] 85735

L977 6966

4612

PROCESSED BY: [signature]

SPECIAL COST NO.



UAL NON-ROUTINE SPR 4129 5-76

SEAL	ENGINE NO	ORDER NO.	ORIGINATOR	PRIORITY
	62697	V528	Stokes 94444	1

DATE	NOSE COWL	COLD SECT	HOT SECT	FAN ASSY
4-14-84	☐	☐	☑	☐

APU

DISP. LEAD	MECH

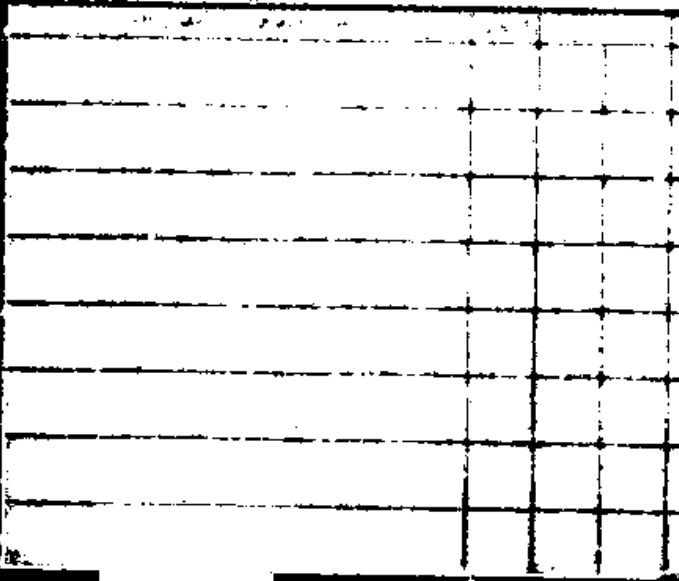
1. Borescope APU Account APU Stalled During TEST CELL RUN

A&P Borescope to determine SERVICEABILITY

CORRECTIVE ACTION: BORESCOPED PER EID 60-49-10-01-00

4616

PROCESSED BY		SPECIAL COST NO.
STOKES		



UNITED
I & R TAG

PART NO.	NAME	DASH NO OFF	SER NO IF NO DASH
285 4ICC - 3016959-6	FAN	DASH NO ON —	MFG SER NO 090346
STA	E74		331 HOURS/CYCLES
	X		DATE SERVICEABLE 3.1.04

THE WORK PERFORMED ON THIS ITEM HAS BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS. WHEN APPLICABLE THIS ITEM HAS BEEN PROCESSED & THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED. PERTINENT INFO IS ON FILE AT [illegible] UAL MAINTENANCE & ENGINEERING STATION AT SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

REMOVED FROM PLANE (No.)	COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
	V528/62694	P	APU	4 9 04	SFOPB

INSTALLED.

SIGNATURE OR STAMP & FILE NO.
Mike Graci C-1572

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

GEN'L REMARKS
UNIT REMARKS
INTERFACE

ON LOCCED BY
ON V 528

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

HOW'S PART(S) FOR INSPECTION AGREE WITH REPORTED TROUBLE? 1 YES 2 NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

JAC CONTROLLED PART

UNITED I&R TAG

											DASHED NO OFF		SER NO IF NO DASH				
											DASH NO CV		REQ SER NO 3240		JTSO —		
443	1170	3726106-1											122 NOMENCLATURE	UNC SHIP CONT	N BATCHABLE	D R	
	X	R											DATE REQUIRED 3-23-09		QUANTITY ONE		

THE REPAIR SPECIFIED HEREIN HAS BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH U.A.L. SPEC 3 & CONFORM TO CURRENT FARS (EXCEPTIONS NOTED BELOW IF APPLICABLE) AND IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED. PERTINENT INFO IS ON FILE AT U.A.L. MAINTENANCE BASE STATION/AIRPORT SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

RETURN TO SERVICE RECORD / PROVISIONAL RELEASE

ITEM SER NO REMOVED FROM UNIT		COMPLETE IF PLANE NOT INVOLVED		COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
		WORK ORDER NO		INSPECTION		DAY	SHOP
		V528/62697		P	API	4 9 C4	SFOPB

REMARKS OR DISCREPANCIES NOTED

747 FOR/FIN---INSTALLED.

SIGNATURE (OR STAMP) & F.L.E.NO.

Mike Grant 05672

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA: AC - CO - 49 - 53 - 20 - JD

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE FOUND: DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO. _____

BCS CONTROLLED PART — HARD TIME UNIT-SERVICEABLE — UNITED I&R TAG

POS	PART NO	NAME	DATE REMOVED	SER NO REMOVED	MSN	DTSO
643	0130	3616868-2 VAI			1385	

	7	122										122	000	N	
	X	JD										3-16-04	1 EA		

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH APPLICABLE & CURRENT REGULATIONS & SIGNED IN THE SERVICEABLE BLOCK. THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED. PERTINENT PART DATA ON FILE AT UAL MAINTENANCE & REPAIR STATION UNDER FAA/FAR & CAA INTERNATIONAL AGREEMENTS.

COMPLETE IF FLIGHT ROTABLE		COMPLETE IF FLIGHT ROTABLE		COMPLETE IF ENGINE ROTABLE		COMPLETE ON ALL UNITS	
CLOCK TO	CYCLES TO	SHOP WORK ORDER NO		TSO	POS	DATE	STA
		V52E/GZ697		P	APU	4.09.04	SFOPB

REMOVAL DUE SEE BACK OF YELLOW STUB

1 ☐ TIME
2 ☐ CONDITION
3 ☐ OTHER

REASON FOR REMOVAL OR INTERRELATED TROUBLE: A-767 FRM/FIM---INSTALLED

SIGNATURE (OR STAMP) & FILE NO: Mark Grant-05672

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

EIN AC-60-49-63-01

REPAIR SHOP DATA - (REQUIRED ENTRIES)

TROUBLE FOUND IS DEFECT/CONDITION AGREEMENT WITH REPORTED TROUBLE? 1 YES 2 NO WAS ITEM REMOVED DUE TO MALFUNCTION OR FAILURE? 1 YES 2 NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

ACS CONTROLLED PART

UNITED
I & R TAG

PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
965 [illegible]	2815103-515 HARNESS	DASHED ON	MFG SER NO / STS

MOVE INDEX	SHIP POINT	BATCHABLE	R
151	1095	N	

X

DATE SERVICEABLE: 3/23/04 | QUANTITY: 1

THE REPAIR(S) OR WORK PERFORMED HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH CAL SPECS & CONFORM TO CURRENT FAR'S WHEN PERFORMED BY A CERTIFICATED REPAIR STATION AS INDICATED IN BLOCK THIS TAG IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT MFD DATA ON FILE AT THE CERTIFICATED REPAIR STATION OR CAL REPAIR STATION LOCATED AT SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

COMPLETE IF PLANE NOT INVOLVED		COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
WORK ORDER NO		WORK CODE	POSITION	DATE	STN
V528 / 62697		P	APU	4 20 04	SFO

REMOVAL OR REPORTED TROUBLE

-747 FCM/FIM--------

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO

6956

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE 7F1509F-505

UNIT REMARKS

TAG AREA

REPAIR SHOP DATA - REQUIRED FOR MR UNITS

TROUBLE FAILURE CODE VERIFICATION AGREE WITH REPORTED TROUBLE? 1 YES 2 NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO. _____

UNITED
I & R TAG

FOR: 25-5111 PART NO: 3611554-1

MAINT SHOP	TO										
	X										

CANCELLED OFF | NEW NO. & KIND OF ITEM

SERIAL NO | MFD PER NO | USED

DATE REC'D | DATE INSTALLED | QUANTITY

THE REPAIRS CERTIFIED HEREIN HAVE BEEN PERFORMED & PARTS USED IN ACCORDANCE WITH THE LATEST REVISED & CURRENT APPROVED DATA, EXCEPT AS NOTED & SIGNED BY THE INSPECTION BLOCK THEREON. IS CERTIFIED AS BEING SATISFACTORY TO THE BEST PERFORMED PERTINENT DATA IS ON FILE AT UAL I & R CAGE EL SEGUNDO & REVAIR STATIONS LAS VEGAS, DENVER, SAN FRANCISCO INTERNATIONAL AIRPORT CAGES.

STORES ISSUE

COMPLETE IF PARTS PROCURED: PURCHASE NO | PURCHASE TAG

COMPLETE IF PARTS RETURNED TO STORES: DATE RECEIVED | V528 / 62697

COMPLETE IF PARTS REMOVED: CONDITION | P | REASON | APU LLP | DATE | 4/8/2004 | STA | SFO

COMPLETE ON ALL TAGS

REMOVAL CODE - SEE BACK OF YELLOW STUB
1 ☐ TIME
2 ☐ CONDITION
3 ☐ OTHER

REMARKS (ENTER ANY OTHER UNITED TRACKING DATA)

INSTALLED ONLY

NEW PART

SIGNATURE (OR STAMP) & FILE NO.
6956

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

REPAIR SHOP DATA -

TROUBLE FOUND [illegible] IF REPEATED TROUBLE? YES NO ADJUSTMENT MADE? YES NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED
I & R TAG

P/N	PART NO	NAME	DASHED NO OFF	SER NO (FND DASH)
265-021C	3822068-1	IMPELLER-C2	DASH NO ON	MFG SER NO: O-501-3201

WAY SHOP	FR	E74	552	LEAD 552												
	X		7227	L97												

551 HOME SHOP | SHIP CONT | BATCHABLE R | DATE REPAIRABLE: 3-18-04 | QUANTITY: 1

THIS PART(S) DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH LAL SPECS & CONFORM TO CURRENT PARTS WHEN INSTALLED IN THE SERVICEABLE CONDITION IT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED LAL HANGER LAL 118 & REPAIR STATION LAL 070 AT SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED		COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	FLIGHT	WORK UNIT LOCATION		FOR ROUTE	POSITION	DATE	STA
		N1516	P135	1	HLA	4.05.04	KOAK

REMARKS (INCLUDE ITEM NO IF APPLICABLE)

REASON FOR REMOVAL OR REPORTED TROUBLE

Installed only

SIGNATURE (OR STAMP) & FILE NO: 6712 21871

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

LOT 601464

ON LOGGED BY 1209A
ON NV518

EPAIR SHOP DATA - (REQUIRED FOR NRTS UNITS)

WAS PART FOUND CORRECTLY AS PER REPORTED TROUBLE? 1 YES 2 NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

UNITED
I&R TAG

DASHED NO OFF	SER NO IF NO DASH
DASHED ON	MFG SER NO / UTCO

P/N: 265-3183 NAME: 38/0002-5 Flushed Assy

STA OF ORIGIN	BAL 552	Level 552							552 HOME SHOP	SHIP CONT	RATCHABLE
7227 X 7227.97									DATE SERVICEABLE 4-6-04		QUANTITY 1EA

THIS REPAIR PERFORMED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS. WHEN APPROPRIATE, I AM DULY AUTHORIZED BY THE U.S. TO CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED. PERTINENT OPD IS ON FILE AT UAL SHOP OVER MAINTENANCE & REPAIR STATION SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

COMPLETE IF FRAME INVOLVED	COMPLETE IF FRAME NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
	QUALIFICATION CLAIMED: NV518 / P1375	MAN CODE: P	POSITION: APU	DATE: 4 8 04	STA: SFO

ACTION TAKEN (CORRECTIVE ACTION)	DESCRIPTION OF REPORTED TROUBLE
	INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO: 95935

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

7227 F-1 DISK 02357-3173 F-1 BLADES 35 EA E3540004-5 7227

REMOVE SHIP UNIT REMARKS & THIS BLOCK

REPAIR SHOP DATA - REQUIRED FOR MRI UNITS

TROUBLE FOUND ON INSPECTION AGREE WITH REPORTED TROUBLE? 1 YES 2 NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 1 YES 2 NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO. _____

UNITED

I & R TAG

P/N	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265·0224 · 3840019-1· DISK-T1			DASH NO ON —	MFG SER NO 0235703173

MAINT CHGS	FS			MFG NEW
365 X 1366	E74	6AC 531 7227		357 HOW RMVD SHP CONT BATCH/LOT R

DATE SERVICEABLE 4·5·04 QUANTITY 1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN PERFORMED BY THE SERVICEABLE CLOCK. THE SHOP IS CERTIFIED AND DRUG WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL R/R CARRIER LALAOMA & REPAIR STA ON LALROTA SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

COMPLETE IF PLANE REMOVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS RECD		COMPLETE ON ALL TAGS	
P/N	S/N	MAINT CHGS (DASH)	MAINT CODE	POSITION	DATE	STA
		NV518/P1375	P	APU	4 6 04	SFOPB

REMOVABLE UNIT BREAK UP VEHICLE SETUP

REASON FOR REMOVAL OR REPORTED TROUBLE

Installed only E3840004-5 T-1 Blade 36 EA

SIGNATURE (OR STAMP) & FILE NO.

7227 15761

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

REPAIRABLE
ON THE MARK
IN THIS AREA

LOGGED BY
NV 518

REPAIR SHOP DATA - REQUIRED FOR MR UNITS:

TROUBLE MAY, IF DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 YES 2 NO WAS OTHER DEFECT ON FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAN. CODE _____ DATE _____ SIGNATURE AND FILE NO. _____

UNITED
I & R TAG

						DASHED NO OFF		SER NO IF NO DASH			
265-3131	E384000 4-5	T-1 Blades				DASHED ON		UPG SER NO		UTSN	
PART NO FROM	TO							551			
7227	7227							HOURS SINCE	SHIPS CONT	BATCHABLE	R
x								DATE LEFT SERVICEABLE		QUANTITY	
								4-6-04		3 EA	

THE REPAIR OR REPLACEMENT SHOWN HEREON HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE APPLICABLE BLOCK. THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UNITED AIRLINES REPAIR STATION SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
DATE	TIME	WORK ORDER NO	CHARGE CODE	STATION	DATE	STA
		N1518 / P1375	P	APU	4 6 04	SFOPB

RECEIVED FROM VENDOR DATE PLACED IN SERVICE CORRECTED TROUBLE

Installed only T-1 Disk 023570317 3

SIGNATURE (OR STAMP) & FILE NO.

7227 15761

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

REPAIR SHOP DATA - REQUIRED FOR MR UNITS

WAS (EACH) FAILURE DOES CORRECTION AGREE WITH REPORTED TROUBLE? 1 YES 2 NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED
I&R TAG

										CAGE NO OF PART		SER NO IF NO DASH			
P/N		PART NO					NAME			CAGE NO OF		MFG SER NO		LTD	
2ES-0221							3E4900X6-1 Transducer (ESX)								
VEND CODE		DMC GSL	LEAD GSL									552 HOME SHOP	SHOP CONT	RATCHABLE	R
7227	X	7227	L97T									DATE SERVICEABLE 3 11 04		QUANTITY 1 EA	

THE REPAIR(S) LISTED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FAR'S. WHEN EXCEPTIONS EXIST, TABLE BLOCK. THE UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL BASE MAINTENANCE STATION JURISDICTION SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

COMPLETE IF PLANE IS INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
TYPE	TAIL NO	FLIGHT NO ROUTE (FM)	STATION	POSITION	DATE	STA
		NV518/P1375	P	APU	4 8 04	SFO

REMARKS (INCLUDE ANY SPECIAL HANDLING INSTRUCTIONS)

INSTALL ONLY

SIGNATURE (OR STAMP) & FILE NO
6956

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

7227 F2 Disk 00501024 16 F2 Blades 40 EA 4304000B-7227

REPAIR SHOP DATA - REQUIRED FOR MRI UNITS

TROUBLE PARTS DOES / DOES NOT AGREE WITH REPORTED TROUBLE? 1 YES 2 NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP GREEN TINTED LINE OTHER SIDE OF TAG

DISPOSITION 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAN CODE DATE SIGNATURE AND FILE NO

UNITED
I & R TAG

P/N	PART NO	NAME	ORDERED NO OFF	SER NO IF NO DASH
285 0222	384CC7-1	DISK-T2	DASH NO C/N —	MFG SER NO. 0C5C102416

MAN SPEC	PS												UTSO
	E74											551 HOME SHOP	SHIP CONT	BATCH/SER R	Ø
1366x1366												DATE SERVICEABLE 3 11 04			QUANTITY 1

THE REMARKS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FAR'S WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS DEEMED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL I&R PARTS/ALAMEDA & REPAIR STATION/ALAMEDA SAN FRANCISCO INTERNAT'L AIRPORT CA 94128 — REMOVED TAG(S) ATTACHED TO PLANE YELLOW

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO.	PLANE TAIL	PLANE/ENGINE LOCATION	WORK CODE*	POSITION	DATE	STA
		NV518/P1375	P	RPH	3 K 04	SFOPS

REMOVAL TAG DEL - SEE BACK OF YELLOW STUB
1 ☐ ENG
2 ☐ PROP
3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE
Installed only 40 T-2 Blade E384000P-2

SIGNATURE (OR STAMP) & FILE NO.
7227 15761

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA: Lot 011059 filed 3-11-04 I36C

ON LOGGED BY 3209A
ON NV518

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RAVLS: DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS:

WORK ACCOMPLISHED:

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO. _____

UNITED
I & R TAG

PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-3177 331T2 SET2	Blade set-T2	DASH NO ON	MFG SER NO / UTSO

PART STATUS	E74		E74 ACTIVE SHOP	SHIP CONT	RAT' HABLE R
TC	X 1209A		DATE SERVICEABLE 03-09-04		QUANTITY 1

THE ABOVE SERVICING WORK HAS BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORMS TO CURRENT FARS WHEN RETURNED SERVICEABLE UNDER THE SER. SEALS DESCRIBED BELOW & CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED. PERTINENT INFO IS ON FILE AT UNITED AIRLINES COMPONENT MAINTENANCE & REPAIR STATION, SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
TAIL NO	STATION	UNIT LOCATION	WORK ORDER	POSITION	DATE	ETA
		NV518/P1375	P	APU	3/16/04	SFOPS

REASON FOR REMOVAL OR REPORTED TROUBLE

Certified only T.O. work on 20 to 24K

SIGNATURE (OR STAMP) & FILE NO.

7227 1576

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNSERVICEABLE
ON THIS ARTICLE

REPAIR SHOP DATA - REQUIRED FOR MR UNITS

WOULD REMOVAL OF THIS CONDITION AGREE WITH REPORTED TROUBLE? 1 YES 2 NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL? 5 YES 6 NO

IF YES WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO. _____

UNITED

I & R TAG

P/N	PART NO			NAME						CASHED NO OFF		SER NO IF NO DASH					
265-0223-3	840022-3			Unit AY T-3						CASH NO ON		MFG SER NO I-345-7045			LTSD		
MAINT SHOPS		E74	552	lend 552								552 HOME SHOP	SHP CONT	BAT CABLE	R		
4744	X		7227	L977								DATE SERVICEABLE 3-28-04			QUANTITY 1		

THE REPAIR DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SPACEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL & RECORDS FACILITY & REPAIR STATION UNITED AIR SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
TAIL NO	FLT NO	STATION AND PART NO	WORK CODE	POSITION	DATE	STA
		NV518 / P1375	P	APU	4 8 04	SFO

REMARKS INCLUDE THE CONDITION FOUND AND CORRECTED TROUBLE RELEASED AS

INSTALL ONLY

SIGNATURE (OR STAMP) & FILE NO

6956

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

ON LOGGED BY I203A
ON NV518

EPAIR SHOP DATA - [illegible] FOR MR UNITS)

[illegible] 1 YES 2 NO [illegible] 5 YES 6 NO

IF YES WHAT CAUSED FAILURE

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP GREEN TINTED LINE OTHER SIDE OF TAG

DISPOSITION 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO. _____

UNITED
I&R TAG

		DASH NO OFF	SER NO IF NO DASH	
PART NO	NAME	DASH NO ON	MFD SER NO	WHO
265 3206 E3844035-4	VANE - T1	—	MG-9-50088	NEW
MAT'L SPEC E71			551 HOURS SINCE NEW OR CONT	RATCHABLE R
X			DATE SERVICEABLE 2-2-04	QUANTITY 1

THE ITEMS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN SIGNED IN THE RECOVERABLE BLOCK THIS UNIT IS CERTIFIED AS CURRENT WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL HQ SAN MATEO CALIFORNIA & HUB STATION(S) LAX, SFO, SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

COMPLETE IF REMOVED	COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
	X460 N518 Lot 73375 ~~V50 Lot 69345~~ X460	WORK STAT* P	POSITION* AFU	DATE 2 27 4	STA SFOPB

REMARKS (INCLUDE SHELF LIFE INFO IF APPLICABLE)

Install Only - T194

SIGNATURE (OR STAMP) & FILE NO.

Ken Fox 102578

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

AE 4150

ON LOGGED BY

ON 11/5/15

EPAIR SHOP DATA – (REQUIRED FOR MRUNITS)

(USABLE PARTS) DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 YES 2 NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 3 YES 4 NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP GREEN TINTED LINE OTHER SIDE OF TAG

DISPOSITION 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO.

UNITED
I & R TAG

P/N	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
	331N02-SEC1	No22L Set Sec	DASH NO ON UA00381056	MFG SER NO / UTSO #

MAT'L CHG'S												HOME SHOP	SHP COAT	BATCHABLE R
		E74										E74		
I209A	X	I209A										DATE SERVICEABLE 04-01-04		QUANTITY 1

THE MAINTENANCE PERFORMED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS. WHEN ENTERED IN BLOCK 14 THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED. PERTINENT INFO IS ON FILE AT UNITED MAINTENANCE STATION & REPAIR STATION, SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
TAIL NO	FLT NO	YOUR ROUTING DASH NO	WORK ORDER	ACTION	DATE	STA
		NV51B/P1375	P	APU	4 8 04	SFO

REMOVAL CODE	REASON FOR REMOVAL OR REPORTED TROUBLE
	INSTALL ONLY

SIGNATURE (OR STAMP) & FILE NO.
6956

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

ON LOGGED BY 209A
ON NV518

EPAIR SHOP DATA - (REQUIRED FOR MAJOR UNITS)

WOULD MAINTENANCE SCHEDULED ACTION AGREE WITH REPORTED TROUBLE? 1 YES 2 NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP GREEN TINTED LINE OTHER SIDE OF TAG

DISPOSITION 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO.

Honeywell 746351-001

UNITED I&R TAG

DEF STAN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-0462	3822099-1	Bearing	DASH NO ON 03900-530	MFG SER NO / TSO 6

CAT SHOP	RI										
		E74								E74 HOME SHOP	CHP CODE	BATCHABLE R
I2U3A X I2U8A										DATE SERVICEABLE 04-01-04	QUANTITY 1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN PROPERLY SIGNED IN THE DATA TABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL E74 REPAIR STATION & REPAIR STATION UAL/SFO SAN FRANCISCO INTERNATIONAL AIRPORT CA&M128

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
FLT NO	ACFT	WORK STAND / DOCKING	RSN CODE*	POSITION	DATE	STA
		NW518/P1375	P	APU	4 8 04	SFO

FAILURE OR REMOVAL OR REPORTED TROUBLE

INSTALL ONLY

SIGNATURE (OR STAMP) & FILE NO
6356

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
WITH RESTRICTION
WITH AREA

ON LOGGED BY 1209A
ON NVS18

REPAIR SHOP DATA - TO BE USED BY SHOPS ONLY

TROUBLE FIRMLY DOES EXAMINATION AGREE WITH REPORTED TROUBLE? 1 YES 2 NO

ANY OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED
I & R TAG

P/N	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
	3S1NOZPR11	Nozzle Set Prim.	DASH NO ON V8000B1053	MFG SER NO UTSO 4

MAINT SPEC	FR	TO												
		E74										E74 HOME SHOP	SHOP CONT	BATCH/LOT NO
I20J2	X	I209A										DATE SERVICEABLE 04-01-04		QUANTITY 1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK. THIS UNIT IS CERTIFIED AIRWORTHY. WITH RESPECT TO THE WORK PERFORMED. PERTINENT INFO IS ON FILE AT UAL AIRFRAME & POWERPLANT REPAIR STATION 4 AT SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

NUMBER TAGS IF MORE THAN ONE

COMPLETE IF PLANE INVOLVED			COMPLETE IF PLANE NOT INVOLVED		COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PART NO	SERIAL NO	X450	WAYBILL OR DASH NO		WHO DOES*	POSITION	DATE	STA
			NV518/PL375		P	APU	4 8 04	SFO

REMOVAL WORK ORDER OR REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALL ONLY

SIGNATURE (OR STAMP) & FILE NO
6956

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

ON LOGGED BY I209A
ON NV518

EPAIR SHOP DATA - [illegible] MR UNITS)

ROUBLE PARTS EXPERIENCED ON AGREE WITH REPORTED TROUBLE? 1 YES 2 NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 3 YES 4 NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED:

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO. _____

UNITED
I & R TAG

QTY	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
	265-3097 * 3830051-5	COMB CHAMBER	DASH NO ON —	W.U. SER NO 101041

WORK AREA	DR	551 HOME SHOP	SHIP CONT	BATCHABLE R	DISC Ø
1755 X 1366		DATE SERVICEABLE 3-24-04		QUANTITY 1	

THE REPAIRS REQUIRED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN NOT OTHERWISE STATED THE COMPONENT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL AIRCRAFT PUBLICATIONS & RECORDS DEPT. UA/RENTA SAN FRANCISCO INTERNATIONAL AIRPORT CA94128

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
A/C TYPE	A/C REG	MAKE AND DASH NO	MAN CODE	POSITION	DATE	ETA
		MS 18/P1375T	F	AFU	4/05/04	FEDEX

REMOVAL REASON (SEE BACK) | REASON FOR REMOVAL OR REPORTED TROUBLE

REMOVED	Inventory adj
INSTALLED	
TSN/CSN	

SIGNATURE (OR STAMP) & FILE NO
6712 4/19/71

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNSERVICEABLE
WITHDRAWN

ON LOGGED BY
ON NOV 5 18

REPAIR SHOP DATA - REQUIRED FOR MR UNITS

TROUBLE REPORTED IN "REMARKS" BLOCK AGREE WITH REPORTED TROUBLE? 1 YES 2 NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO. _____

UNITED
I & R TAG

| | | |

ON LOGGED BY I209A

ON NV518

EPAIR SHOP DATA - REQUIRED FOR MR RATE

TROUBLE FIRMLY DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 YES 2 NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED
I & R TAG

P/N	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-0457	3822067-2	Impeller stg 1	DASH NO ON 8-501-3345	MFG SER NO

UTSO: Ø

WORK UNIT NUMBER	FS	E24									E24 HOME STOP	SHIP CONT	BATCHABLE	R
I209A	X	I209A									DATE SERVICEABLE 04-01-04		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN APPROVED IN THE REPAIRABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL A R STARTER UAL/TIA & REPAIR STATION UAL/OTA SAN FRANCISCO INTERNATIONAL AIRPORT CA94128

OUTSIDE SOURCE OF REPAIR OR INSPECTION STAMP AFFIXED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
N NUMBER	FLIGHT NO	WORK ORDER AND TASK NO	WHAT MADE	STATION	DATE	STA
		NW378/A1375T	1	ATL	04 05 04	ATOP5

REMOVAL CODE (SEE BACK OF TAG) | DESCRIPTION OF REMOVAL OR REPORTED TROUBLE

REMOVED
ON A/C NO
AT STATION

Installed only

SIGNATURE (OR STAMP) & FILE NO
8712 A1187

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNTRENCHED
WITH SAFER

OH LOGGED BY 1209A
ON NV518

REPAIR SHOP DATA – (REQUIRED FOR MR UNITS)

TROUBLE FAILED? DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 YES 2 NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO.

UNITED
I & R TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIR SHOP DATA - REQUIRED FOR AIRCRAFT

TAPE/BLEMISH DOES NOT AGREE WITH REPORTED TROUBLE? 1 YES 2 NO

IF YES WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED
I&R TAG

FSN	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-0238	3844018-1	Stator AY T3	DASH NO ON	MFG SER NO / UTSO: 0

| MAINT SHOP | OR | | |

SERVICEABLE
UNIT REMARKS
IN THIS AREA

REPAIR SHOP DATA – (REQUIRED FOR MR UNITS)

TROUBLE FOUND: DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO — WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAN CODE _____ DATE _____ SIGNATURE AND FILE NO. _____

UNITED
I & R TAG

P/N: 265-3208 · 3844011-9 STATOR Ay-T2	NAME:	DASHED NO OFF	SER NO IF NO DASH
		DASH NO ON: —	MFG SER NO:	MFG: Ø

WORK ORDER	PO	E74									551 HOURS/CYCLES	SHIP CONT	BATCH/LOT NO
T36 X T366											DATE SERVICEABLE 3-15-04		QUANTITY 1

THE REPAIR(S) DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN PERFORMED BY THE CONTRACTOR LISTED. THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED. PERTINENT INFO IS ON FILE AT UNITED AIRLINES REPAIR STATION NUMBER 5 SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
MFG	MODEL	N/A OR PLANE DASH NO	MAN CODE	POSITION	DATE	STA
		N518/P1375	P	APU	4 8 04	SFO

REMARKS OR DESCRIPTION OF WORK PERFORMED

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALLED ONLY

SIGNATURE OR STAMP) & F LE NO

9969

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

EPAIR SHOP DATA - (REQUIRED FOR MF UNITS)

TROUBLE FINDING DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 YES 2 NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO. _____

UNITED
I & R TAG

P/N	PART NO	NAME	DASHED NO OFF	SER NO (IF NO DASH)
265-3037	3840011-3	Coupling Rotor	DASH NO ON	MFG SER NO / UTSO 6
MAT'L SPECS	E74			E94 HOME DEPT / SHIP CON'T / BATCHABLE R
X	1209A			DATE SERVICEABLE 04-01-04 / QUANTITY 1

THE WORK REQUIRED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN APPROVED FOR RETURN TO SERVICE. UNLESS OTHERWISE NOTED IN THE REMARKS BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL MAINTENANCE & REPAIR STATION (UAL/MRA) SAN FRANCISCO INTERNATIONAL AIRPORT CA94128

COMPLETE IF A/C INVOLVED	COMPLETE IF A/C NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
	NV518/P1375	P	APU	DATE 4,8,04	STA SFO

REMOVAL REASON (IF REMOVED FOR CONDITIONAL OR REPORTABLE FAILURE)

INSTALLED ONLY

SIGNATURE (OR STAMP) & FILE NO
6956

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
REPAIRABLE
CONDEMNED

REPAIR SHOP DATA - REQUIRED FOR MR UNITS

TROUBLE SHOOTING DOES CORRECTION AGREE WITH REPORTED TROUBLE? 1 YES 2 NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP GREEN TINTED LINE OTHER SIDE OF TAG

DISPOSITION 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

UNITED
I & R TAG

PART NO.	NAME	DASHED NO OFF	SER NO IF NO DASH
265 3071 - 3510259-3	HOUSING INLET	DASH NO (2) —	USG SER NO —

| | | |

SERIAL NUMBER

PART NUMBER

NOMENCLATURE

REPAIR SHOP DATA - REQUIRED FOR MP UNITS

TROUBLE FOUND DOES / DOES NOT AGREE WITH REPORTED TROUBLE? 1 YES 2 NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO.

UNITED

I & R TAG

FSN	PART NO	NOME	CASTED NO. OFF	SER. NO. IF NO CASH
265·3645·651 5503·7002· TADPOLE TEAL			DASH NO. LIN —	MFG SER NO —

MAINT CNTRL	PS										UPRO NEW
	X										551 HOME SHOP / SHOP CONT / PATCHABLE / R
											DATE SERVICEABLE 10-17-03 / QUANTITY 1

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN SIGNED IN THE SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL SHOP OR REPAIR STATION LOCATED AT SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO	PLANE TYPE	WORK ORDER NO	TRANSACTION	STATION	DATE	STA
		NV518/P1375	P	APU	4 8 04	SFO

REMOVAL CODE - SEE BACK OF YELLOW STUB

- $ ☐ NRT
- ☐ [illegible]
- ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE

INSTALL ONLY

SIGNATURE OR STAMP & FILE NO.

6958

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS. DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS:

WORK ACCOMPLISHED:

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE_____ DATE_____ SIGNATURE AND FILE NO _____

UNITED
I & R TAG

P/N	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265 C205	3822065-1	SHAFT/SEAL ASSY	DASH NO ON —	MFG SER NO —

| WORK UNIT CHGS | QTY | | |

SERV CEABLE
NT REPAIRS
N THIS AREA

EPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

ROUBLE RMKS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 YES 2 NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED:

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE. OTHER SIDE OF TAG

DISPOSITION 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO.

UNITED

I & R TAG

| | | |

EPAIR SHOP DATA – REQUIRED FOR MR UNITS

WAS ITEM IN SERVICEABLE CONDITION AS RELATED WITH REPORTED TROUBLE? 1 YES 2 NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO. _____

UNITED
I & R TAG

| | | |

SERVICEABLE UNIT REMARKS IN THIS AREA

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMKS DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO HAS IT BEEN CORRECTED IN FUTURE WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO. _____

UNITED
I & R TAG

PART NO	NAME	CASHED NO OFF	SER NO (FMO DASH
265-3164 · 3862099-3	· HOUSING GEARBOX	DASH NO ON –	MFG SER NO IL-2034

MFG													
1	58	1366	E74										

MFG	HOME SHOP	SHIP CONT	RATCHABLE R
	531		

DATE SERVICEABLE	QUANTITY
3-22-04	1

THE REPAIR OF UNIT HEREIN HAS BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORMS TO CURRENT FARS. WHEN APPLICABLE IN THE BOX BELOW THE UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT WO'S ON FILE AT UAL MAINTENANCE BASE, SFO & ROTATIONAL BASE(S) SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

COMPLETE FLAME NOT INVOLVED		COMPLETE FLAME NOT INVOLVED		COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
		NHA P/N & A/N NO		EMPLOYEE*	POSITION	DATE	STA
		AV 515	4913 P698	P	OP41	3 24 04	SFOPB

REMOVAL DATE, TIME OR AIRCRAFT REGISTRATION NO. LOCATION

REASON FOR REMOVAL OR REPORTED TROUBLE

Initial

SIGNATURE (OR STAMP) & FILE NO.

C3621

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

REPAIRABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY 366
ON AUG 16

REPAIR SHOP DATA - REQUIRED FOR MR UNITS

WORK STAND DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 YES 2 NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO _____

~~FV518~~ L977 FV 766 L977

UNITED
I & R TAG

265-3012 3810231-21

552

X L977

UA CO.7 1830

4-7-04 1

FV518/P1372 P APU 4 8 04 SFOPS

INSTALLED ONLY

SIGNATURE OR STAMP & FILE NO.
6947

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

ON LOGGED BY
ON FV 518

REPAIR SHOP DATA -

DOUBLE PASS OPERATION AGREE WITH REPAIR INSTRUCTION

IF YES WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 - OVERHAULED 2 - SERVICEABLE 3 - TO VENDOR 4 - SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO. _____

FV518

UNITED
I & R TAG

P/N	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-0059	3822080-3	Impeller - DC	DASH NO ON 1-501-1732	MFG SER NO / UTSC 6

MAN CODE	F	E74	551	Lead 551							E74 HOME SHOP	SHIP CONT	RATCHABLE
22USN	X	I209A	7227								DATE SERVICEABLE 4-05-04		QUANTITY 1

THE ITEMS LISTED HEREIN HAVE BEEN REVIEWED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN SIGNED IN THE ENCIRCLED BLOCK BY A UAL CERTIFIED AUTHORITY WITH RESPECT TO THE WORK PERFORMED. PERTINENT INFO IS ON FILE AT UAL MAINTENANCE & PERFORMANCE, SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128.

COMPLETE IF PLACED IN USE		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
		FV518/P1375	P	BPA	4 F 04	JFUEB

REMARKS (INCLUDE REASON FOR REMOVAL OR REPORTED INCIDENT)

SIGNATURE (OR STAMP) & FILE NO 6947

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

EV 518

EPAIR SHOP DATA - REQUIRED FOR MR UNITS

ROUBLE REPAIRS AND SUBSEQUENTLY AGREE WITH REPORTED TROUBLE? 1 YES 2 NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

UNITED
I&R TAG

P/N	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-0462-3822099-1	BBG	RLR	DASH NO ON	MFG SER NO 6R9100-677 UTSO 0

CMPT CNTRL	EO											MOVE BACK	SHIP CONT	BATCHABLE	R
14744	X	E74 19714										E74			

DATE SERVICEABLE 4-6-04 QUANTITY 1EA

THE REPAIRS LISTED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN APPLICABLE. SERVICEABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL AIRPORT/HANGAR & REPAIR STATION OAKLAND SAN FRANCISCO INTERNATIONAL AIRPORT CA94128

NOT REQ. IF SEALED BY INSPECTION STAMP

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
		WORK AND DASH NO FY518/P1372	MRA CODE 2	POSITION APU	DATE 4.8.04	STA SFORG

REMOVAL DATE REMOVAL TIME REMOVAL STATION REMOVAL REASON FOR REMOVAL OR REPORTED TROUBLE

SIGNATURE (OR STAMP) & FILE NO 9471

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMOVED IN THIS AREA

ON LOCATION 3 [illegible] 8130/ 904822-001
QTY FV 518

REPAIR SHOP DATA - (USE DOUBLE FOR MR UNITS)

TROUBLE FOUND DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 YES 2 NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE DATE SIGNATURE AND FILE NO.

UNITED
I & R TAG

	PART NO	NAME		DASHED NO OFF	SER NO IF NO DASH						
265	3238-361382	7-1 BRG thrust		DASH NO ON	MFG SER NO	UTSO					
					UA1998-441	Ø					
MAT'L SUPER					E74						
24764	X				HOME SHOP	SHP CONT	BATCHABLE R				
					DATE SERVICEABLE	QUANTITY					
					4-6-04	1EA					

THE REPAIR(S) DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN SIGNED. THE REMOVABLE BLOCK THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL/AE REPAIR STATION UAL/OTA SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128 — NO MAINTENANCE REQUIRED / NOT SERVICEABLE TAG ATTACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
		WORK UNIT/DASH NO	CHAPTER	POSITION	DATE	STA
		FYS18/P1373	1	Aft	4.8.04	STOPS

REMARKS (USE BACK IF NEEDED) / DEFECT OR REMOVAL REASON / REPORTED TROUBLE

SIGNATURE (OR STAMP) & FILE NO. 5947

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMOVED FROM THIS AREA

ON EQUIP 24744

FV 518

8130/ 86155

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE FIXED? DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 YES 2 NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO. _____

UNITED
I & R TAG

DESC	PART NO	NAME	DASHED NO OFF	SER NO IF NO DASH
265-0592 · 3826140-5 · SCROLL HOUSING			DASH NO ON —	USED SER NO —

PLANT SHOP	FR										USED Ø
		E74								551 HOME SHOP	SHP CONT	BATCHABLE R
6X .360										DATE SERVICEABLE 3-24-04		QUANTITY 1

THE ITEM(S) DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPECS & CONFORM TO CURRENT FARS WHEN SIGNED IN THE BOX MARKED "RTS" UNDER BLOCK "A". UNITED CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED PERTINENT INFO IS ON FILE AT UAL MAINTENANCE OPERATIONS DEPARTMENT OAKLAND, CA SAN FRANCISCO INTERNATIONAL AIRPORT CA 94128

COMPLETE FOR ANY REMOVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
A/C NO	STATION	WORK ORDER NO	A/C REGD	POSITION	DATE	STA
		FV518/P1379	P	AFT	4 8 04	SFORB

REMOVED DUE TO FAILURE, DAMAGE, WEAR, OR REMOVAL OR REQUIRED TROUBLE (EXPLAIN IN DETAIL)

INSTALLED ONLY

6947

SIGNATURE (OR STAMP) & FILE NO

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED. **UNITED AIRLINES IDENTIFICATION & ROUTING TAG**

SERVICEABLE
RETURNED
OTHER (Explain)

REPAIR SHOP DATA - (REQUIRED FOR MW UNITS)

TROUBLE FINDING DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 YES 2 NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 YES 6 NO

IF YES WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

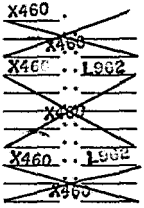
SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO. _____

Job Instruction Card

GTCP331-200 COVER PAGE, BASE CHECK
REV. 06/24/03

V528	62697	V0100.0
ENGINE NO	ENGINE NO	JOB NO

LIST OF ITEMS STARTED BUT NOT SIGNED OFF



NOTE - RIGHT SIGN-OFF COLUMN FOR JOB ISSUED.
LEFT SIGN-OFF COLUMN FOR JOB COMPLETED.

1. THE FOLLOWING JOBS ARE SIGNED OFF CORRECTLY OR ACCOUNTED FOR PROPERLY.
2. ALL ITEMS THAT ARE 'X'ED OUT ARE NOT REQD. THIS VISIT.
   *V0005.0 PARTS AS-RECEIVED INVENTORY CUSTOMER/LEASE
   V0010.0 MR UNIT/TAG ACCOUNTABILITY LIST
   V0101.0 BASE CHECK - PRELIMINARY SERVICE
   V0101.1 BASE CHECK - FINAL SERVICE
   V0101.2 BASE CHECK SERVICE - CSV - C CHECK
   V0101.5 BASE CHECK - PRELIMINARY SERVICE-CUSTOMER
   V0101.6 BASE CHECK - FINAL SERVICE-CUSTOMER
   V0102.0 BASE CHECK - INSPECTION
   V0102.1 M.I.S. CLEAN UP
3. THE FOLLOWING NON-ROUTINE CARDS ARE SIGNED OFF CORRECTLY AND ACCOUNTED FOR. BLANK SPACES INDICATE NO NON-ROUTINES WERE ISSUED.

N/R #	SIGN OFF	N/R #	SIGN OFF	N/R #	SIGN OFF

(SFOPB)COORDINATOR X460 DATE Apr. 14, 2004

W/C 551 SRB

END JOB V-0100.0 REVISED 06/24/03

UNITED

Job Instruction Card

GTCP331-200 BASE CHECK - PRELIMINARY SERVICE
REV. 07/26/02

V528	62697	V0101.0
CRAFT NO.	ENGINE NO.	JOB NO

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

NOTE: THIS IS A HIGH TIME APU. Niro Spool 05672 6526

NOTE - SET TORQUE WRENCH TO THE TORQUE VALUE SPECIFIED. IF NO TORQUE VALUE IS SPECIFIED, USE STANDARD TORQUE PER GN-8-0-2-14.

CAUTION - SCRAP ANY SELF LOCKING NUT WHICH CAN BE TURNED PAST ITS LOCKING FEATURE BY HAND.

WARNING - REMOVAL OF CHIP DETECTOR HOUSING WILL CAUSE OIL TO DRAIN FROM APU. HOT OIL CAN CAUSE BURNS. TAKE NECESSARY PRECAUTIONS.

M 6526 1. -----C CHECK REQUIRED ITEM----- REMOVE THE FOLLOWING AND CHECK FOR METAL. IF METAL FOUND NOTIFY INSPECTION AND REQUEST JIC V0102.1 FROM SCHEDULE CENTER. REMOVE INLET SCREEN, T-DUCT AND SURGE VALVE ELBOW FOR BOROSCOPE ACCESS. IF METAL NOT FOUND, PROCEED TO NEXT SIGNOFF.

A. GEARBOX MAGNETIC CHIP DETECTOR AND CHIP DETECTOR HOUSING.
METAL FOUND YES _____ NO 6526

B. GENERATOR MAGNETIC CHIP DETECTOR AND CHIP DETECTOR HOUSING.
METAL FOUND YES _____ NO 6526
DUPLICATE SIGN-OFF ON JOB V0101.2

L 6526 L ALL ITEMS ARE PROPERLY SIGNED OFF.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

GTCP331-200 BASE CHECK - PRELIMINARY SERVICE
REV. 07/26/02

V528 | 62697 | V0101.0
ENGINE NO. | JOB NO.

M 6526 2. -----C CHECK REQUIRED ITEM----- REMOVE THE FOLLOWING IF INSTALLED, AND CHECK FOR METAL. IF METAL FOUND, NOTIFY INSPECTION AND REQUEST JIC V0102.1 FROM SCHEDULE CENTER. IF METAL NOT FOUND, PROCEED TO NEXT SIGNOFF.

A. TURBINE MAGNETIC CHIP DETECTOR AND CHIP DETECTOR HOUSING.
METAL FOUND YES _____ NO 6526

B. COMPRESSOR MAGNETIC CHIP DETECTOR AND CHIP DETECTOR HOUSING.
METAL FOUND YES _____ NO 6526
DUPLICATE SIGN-OFF ON JOB V0101.2

M 6526 3. -----ENGINE SHOP VISIT REQUIRED ITEM-----
REMOVE MONOPOLE AND CHECK FOR METAL AND STRIKE. IF METAL OR STRIKE FOUND, NOTIFY INSPECTION AND REQUEST JIC V0102.1 FROM SCHEDULE CENTER.
IF NEITHER FOUND, PROCEED TO NEXT SIGN-OFF.

METAL FOUND YES _____ NO 6526
STRIKE YES _____ NO 6526

DUPLICATE SIGN-OFF ON JOB V0101.2

M 6526 4. -----C CHECK REQUIRED ITEM----- VISUALLY CHECK MAIN OIL FILTER DIFFERENTIAL PRESSURE INDICATOR AND RECORD FINDINGS. EXTENDED - YES _____ NO 6526
DUPLICATE SIGN-OFF ON JOB V0101.2

4982 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ON LIST OF ITEMS STARTED BUT NOT SIGNED OFF

M 6526 5. -----C CHECK REQUIRED ITEM----- REMOVE OIL FILTER ELEMENT AND CHECK FOR CONTAMINATION OR DAMAGE. IF EITHER CONTAMINATION OR DAMAGE FOUND, NOTIFY INSPECTION. IF OIL FILTER ELEMENT OK, REINSTALL.

NOTE - O-RING MUST BE REPLACED REGARDLESS OF *OIL FILTER ELEMENT CONDITION.*

METAL FOUND YES _____ NO 6526
DUPLICATE SIGN-OFF ON JOB V0101.2

M 6526 6. -----C CHECK REQUIRED ITEM----- VISUALLY CHECK GENERATOR FILTER DIFFERENTIAL PRESSURE INDICATOR AND RECORD FINDINGS. EXTENDED - YES _____ NO 6526
DUPLICATE SIGN-OFF ON JOB V0101.2

M 6526 7. -----ALL SHOP VISIT REQUIRED ITEM-----REMOVE GENERATOR *OIL* SCAVENGE FILTER AND CHECK FOR METAL. IF METAL FOUND NOTIFY INSPECTION AND REQUEST JIC V0102.1 FROM SCHEDULE CENTER. IF METAL NOT FOUND, REINSTALL OLD FILTER AND PROCEED TO NEXT SIGN-OFF.

METAL FOUND YES _____ NO 6526
DUPLICATE SIGN-OFF ON JOB V0101.2

_____I 8. IF ENGINE TO BE COMPLETELY DISASSEMBLED, AND ALL MODULES TO BE ROUTED FOR DISASSEMBLY, NO FURTHER INSPECTION SIGN-OFFS REQUIRED, THEN PROCEED TO STEP 10.

_____I 9. VISUALLY INSPECT ALL DRIVEN COMPRESSOR IMPELLER BLADES FOR DAMAGE AND/OR IRREGULARITIES, *INCLUDING* LEADING AND TRAILING EDGE WITH BOROSCOPE. ALSO VISUALLY INSPECT POWER SECTION C1 IMPELLER BLADES FOR DAMAGE AND IRREGULARITIES.

_____L ALL ITEMS ARE PROPERLY SIGNED OFF.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

X460. 10. BEFORE CONTINUING WITH BASE CHECK SERVICE, CONTACT PLANNING CONTROL CENTER FOR SCHEDULING OF BASE CHECK INSPECTION JIC V0102.0.

M 6526 11. -----ALL SHOP VISIT REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 1000 HOURS, REMOVE GENERATOR DIFFERENTIAL PRESSURE SWITCH AND ROUTE TO HOME SHOP.
DUPLICATE SIGN-OFF ON JOB V0101.2

M 6526 12. -----C CHECK REQUIRED ITEM----- VISUALLY CHECK FUEL FILTER DIFFERENTIAL PRESSURE INDICATOR AND RECORD FINDINGS.
EXTENDED - YES _____ NO 6526

IF INDICATOR EXTENDED, CHANGE FILTER AND RESET INDICATOR.

M 6526 13. -----ENGINE SHOP VISIT REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 1000 HRS, THEN REMOVE FLOW SENSING MODULE AND ROUTE TO HOME SHOP.

DUPLICATE SIGN-OFF ON JOB V0101.2

M 6526 14. DISCONNECT PNEUMATIC LINES FROM ALL COMPONENTS THEN BLOW OUT LINES USING SHOP AIR.
DUPLICATE SIGN-OFF ON JOB V0101.2

M 6526 15. -----ALL SHOP VISIT REQUIRED ITEM-----
REMOVE PNEUMATIC LINE AND ELBOW FITTING FROM COMPRESSOR INLET PRESSURE SENSOR. BLOW OUT LINE AND FITTING WITH SHOP AIR OR ULTRASONIC CLEAN. MAKE SURE PORT IN INLET PLENUM IS CLEAN WITHOUT DESTRUCTION.

L96 L ALL ITEMS ARE PROPERLY SIGNED OFF.

GTCP331-200 BASE CHECK - PRELIMINARY SERVICE
REV. 07/26/02

V528 | 62697 | V0101.0
ORDER NO. | ENGINE NO. | JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

ITEM 16. LOAD COMPRESSOR WILL BE DISASSEMBLED. Miro Spacil 05672

LM 6628

16. -----ALL SHOP VISIT REQUIRED ITEM-----CHECK INLET GUIDE VANE LINKAGE WEAR AS FOLLOWS.

A. REMOVE IGVA COVER. VISUALLY CHECK FOR WEAR ON TRUNNION BUSHING. VISABLE WEAR IS CAUSE FOR TRUNNION BUSHING REPLACEMENT.

B. REMOVE BOLT ATTACHING BELLCRANK TO LINKAGE ROD END. CHECK FOR WEAR IN BELLCRANK AND FOR DAMAGE OR WEAR TO FORKS. SIDE PLAY AT BELLCRANK PIVOT POINT IS CAUSE FOR BELLCRANK REPLACEMENT. IF BELLCRANK IS REPLACED, REPLACE TRUNNION BUSHING REGARDLESS OF CONDITION.

NOTE - BELLCRANK PIVOT POINT WEAR HAS BEEN NOTED. ANY PLAY IN BELLCRANK INDICATES PIVOT POINT BEARING WEAR.

C. CHECK TRUNNION BLOCK FOR LOOSENESS WHERE TRUNNION ATTACHES TO BELLCRANK. AXIAL FREEPLAY OF BELLCRANK TO TRUNNION IN EXCESS OF 0.020 INCH IS CAUSE FOR TRUNNION BUSHING REPLACEMENT. IF BELLCRANK IS REPLACED, REPLACE BUSHING REGARDLESS OF CONDITION.
CHECK TRUNNION BLOCK FOR DAMAGE AND REPLACE IF DAMAGED.

LOAD L ALL ITEMS ARE PROPERLY SIGNED OFF.

UNITED

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

D. CHECK FOR FREEPLAY IN IGV LINKAGE AND FOR AXIAL PLAY IN ROD ENDS BY MOVING ROD IN AND OUT. AXIAL PLAY UP TO 0.080 INCH WITH NO VISUAL MOVEMENT IN VANES IS ACCEPTABLE.

NOTE - EXCESS FORCE SHOULD NOT BE APPLIED TO OPEN AND CLOSE INLET GUIDE VANES. SIDE PLAY CAUSED BY ROD END BEARING IS NORMAL.

E. REPLACE WORN EXTERNAL PARTS AND REINSTALL IN ACCORDANCE WITH SHOP PROCEDURE 49-25-01/SP AND/OR 49-10-01/SP.

DUPLICATE SIGN-OFF ON JOB V0101.2

M 6526 17. -----ALL SHOP VISIT REQUIRED ITEM-----
CHECK PRESSURE RELIEF VALVE COMBUSTOR DRAIN. REMOVE DRAIN TUBE AND PRESSURE VALVE. CHECK TO SEE IF VALVE CLOSES BETWEEN 10 - 15 PSIG. REPLACE VALVE IF OUT OF LIMIT ON CLOSING PRESSURE. CAP VALVE IF NOT REINSTALLED.

DUPLICATE SIGN-OFF ON JOB V0101.2

M 6526 18. CHECK LRU CLUTCH FOR FREE ROTATION IN CLOCKWISE DIRECTION AND FOR SLIPPAGE OR BINDING IN COUNTER CLOCKWISE DIRECTION.

M 6526 19. -----ALL SHOP VISIT REQUIRED ITEM-----
IF TSLV IS EQUAL TO OR GREATER THAN 1000 HRS TSLSV REMOVE STARTER MOTOR AND ROUTE TO HOME SHOP.

NOTE - IF STARTER MOTOR IS P/N 519858-6, ROUTE TO HOME SHOP REGARDLESS OF TIME.

L ALL ITEMS ARE PROPERLY SIGNED OFF.

DETAIL OF ITEMS STARTED BUT NOT SIGNED OFF

M 6526 20. -----ALL SHOP VISIT REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 1000 HRS THEN REMOVE GEARBOX PRESSURE REGULATING VALVE AND ROUTE. REMOVE GEARBOX REGULATING VALVE ADAPTER AND ROUTE ON ENGINE CART FOR INSPECTION OR CLEANING PER GN 4-0-3-20.
DUPLICATE SIGN-OFF ON JOB V0101.2

M 6526 21. REMOVE THE IGNITION LEAD AND PLACE ON CART FOR INSPECTION (EID/REPAIR).

M 6526 22. -----ALL SHOP VISIT REQUIRED ITEM----- REMOVE IGNITOR PLUG AND ADAPTER AND DISCARD PLUG AND GASKETS
CIRCLE AND ACCOMPLISH A OR B BELOW:

A. ACCEPTABLE. THE DISTANCE BETWEEN EDGE OF ELECTRODE AND INSIDE OF UNERODED EDGE OF GROUND SHELL TIP IS LESS THAN 0.090 INCH. UNIFORM EROSION OF ELECTRODE AND OUTER SHELL IS ACCEPTABLE.
NO CRACKS OR CHIPPED AREA ON CERAMIC INSULATOR.

6526
B. NOT ACCEPTABLE. DISTANCE BETWEEN EDGE OF ELECTRODE AND INSIDE OF UNERODED EDGE OF GROUND SHELL TIP IS GREATER THAN 0.090 INCH.
ANY CRACK OR CHIPS ON INSULATOR AREA.
ELECTRICAL CONNECTOR PIN BURNED OR BENT.
ANY BROKEN OR MISSING PARTS.
SCRAP PLUG LOCALLY.
DUPLICATE SIGN-OFF ON JOB V0101.2

M 6526 23. IT TSLV IS GREATER THAN OR EQUAL TO 1000 APU HOURS, THEN REMOVE EXCITER UNIT AND ROUTE TO HOME SHOP.

1996 L ALL ITEMS ARE PROPERLY SIGNED OFF.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

H 6526 24. -----ESV C CHECK REQUIRED ITEM------
CIRCLE AND ACCOMPLISH A OR B BELOW:

A. IF TIME SINCE HARNESS INSTALLATION IS GREATER THAN 2 YEARS OR NO DATE TAG, ROUTE HARNESS TO HOME SHOP. 6626

B. IF TIME SINCE HARNESS INSTALLATION IS LESS THAN 2 YEARS, PERFORM FUNCTIONAL CHECK PER MJ-60-49-10-02-FC. CHECK WIRING INSULATION FOR BREAKS OR ABRASIONS AND REPAIR AS NEEDED. VISUALLY CHECK ALL MAIN HARNESS CONNECTOR SOCKETS FOR EVIDENCE OF ARCING. REPLACE SOCKETS AS NEEDED. (THIS CHECK IS NOT REQUIRED FOR EGT HARNESSES). IF SBV OR LCV CONNECTORS ARE OLD STYLE WITH CERAMIC INSULATOR, CUT OFF AND DISCARD. IF ELECTRICAL SYSTEM FAILS FUNCTIONAL CHECK, ROUTE HARNESS TO HOME SHOP.

DUPLICATE SIGN-OFF ON JOB V0101.2

H 6526 25. -----ESV REQUIRED ITEM----- PERFORM HEAT CHECK OF THERMOCOUPLE HARNESS AND RECORD FINDINGS.
LEFT SIDE OPERATIVE - YES 6526 NO_____
RIGHT SIDE OPERATIVE - YES 6526 NO_____
CONNECT EGT GAGE TO THERMOCOUPLE HARNESS, P2 PLUG, PINS 10 AND 24 FOR #1 PAIR AND PINS 11 AND 25 FOR #2 PAIR. USING PORTABLE BOTTLE GAS APPLY LOCALIZED HEAT, 1200 F (650 C) MAXIMUM TO EACH PROBE ONE AT A TIME. EGT GAGE SHOULD RESPOND FOR EACH PROBE. IF ANY PROBE DOES NOT RESPOND TO HEAT CHECK, REPLACE PROBE.

H 6526 26. -----ESV REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 1000 HRS, THEN REMOVE COOLING AIR SHUTOFF VALVE AND ROUTE TO HOME SHOP.

Lee L ALL ITEMS ARE PROPERLY SIGNED OFF.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

NOTE - IF COA Y91710 OR M94260 HAS BEEN ACCOMPLISHED, COOLING FAN SHUT-OFF VALVE HAS BEEN DELETED AND NO ACTION IS REQUIRED.

M 6526 27. -----C CHECK REQUIRED ITEM-----
IF TSLV IS GREATER THAN 1000 APU HOURS, REMOVE THE LOW OIL TEMPERATURE SWITCH AND ROUTE TO HOME SHOP.

M 6526 28. -----ALL SHOP VISIT REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 1000 HRS, THEN ROUTE GEARBOX SHUTOFF VALVE TO HOME SHOP.
DUPLICATE SIGN-OFF ON JOB V0101.2

M 6526 29. -----ALL SHOP VISIT REQUIRED ITEM-----
IF TSLV IS EQUAL TO OR GREATER THAN 1000 HOURS, REMOVE SHUTTLE VALVE. DISASSEMBLE VALVE, CLEAN, REPLACE SEALS, AND REASSEMBLE.

L962 LM X 6526 30. -----ALL SHOP VISIT REQUIRED ITEM-----
ACCOMPLISH THE FOLLOWING AND CIRCLE A OR B BELOW:

A. COOLING FAN IS NOT LEAKING OIL. PROCEED TO SIGN-OFF 31.

B. COOLING FAN IS LEAKING OIL.
ROUTE COOLING FAN FOR REPAIR.
DUPLICATE SIGN-OFF ON JOB V0101.2

ITEM 30 COOLING FAN IS BEING ROUTED. Mike Spaid C5672 6526

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

STAPLE OF ITEMS STARTED BUT NOT SIGNED OFF

M 6526 31. -----ESV REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 1000 HOURS
REMOVE FLOW DIVIDER VALVE ASSEMBLY AND ROUTE FOR BENCH
TEST OR REPAIR.

M 6526 32. -----C CHECK REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 1000 HOURS
ROUTE OIL COOLER TO HOME SHOP.
DUPLICATE SIGN-OFF ON JOB V0101.2

M 6526 33. -----ALL SHOP VISIT REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 1000 HOURS,
REMOVE SURGE CONTROL VALVE AND ROUTE TO HOME SHOP.

M 6526 34. -----ALL SHOP VISIT REQUIRED ITEM-----
IF TSLV IS EQUAL OR GREATER THAN 1000 HOURS,
REMOVE LOW OIL PRESSURE SWITCH AND ROUTE TO HOME SHOP.

M 6526 35. -----C CHECK REQUIRED ITEM-----
IF TSLV IS GREATER THAN OR EQUAL TO 1000 APU HRS,
REMOVE THE FUEL CONTROL FOR BENCH TEST.

M 6526 36. -----C CHECK REQUIRED ITEM-----
IF TSLV IS GREATER THAN OR EQUAL TO 1000 APU HRS,
REMOVE THE COMPRESSOR INLET PRESSURE SENSOR (P2)
AND ROUTE TO HOME SHOP.

M 6526 37. -----ALL SHOP VISIT REQUIRED ITEM-----
IF TSLV IS GREATER OR EQUAL TO 1000 APU HOURS, REMOVE
DE-OILER SOLENOID AND ROUTE TO HOME SHOP.

551 JAS

END JOB V-0101.0 REVISED 07/26/02

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

GTCP331-200 BASE CHECK INSPECTION
REV. 08/01/03

V523	62697	V0102.0
PRODUCT	ENGINE NO	JOB NO

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

THE FOLLOWING ARE INSPECTED TO SATISFY "C" CHECKS AND BASE ENGINE CHECK REQUIREMENTS PER GTCP331 EID 49-10-01/I00 AND INTRODUCTION/POLICY SECTION IN BOOK "0". INITIATE NON-ROUTINE (SFR4129) AS REQUIRED AND/OR RE-REVIEW ENGINE TO ACCOMPLISH CORRECTIVE ACTION.

_____ I

*USE "ENGWRK" DISPLAY IN UNIMATIC TO REVIEW INCOMING
*APU OPEN ITEMS. INDICATE IF "ELR" ITEMS ARE PRESENT.
*'X' OUT IF CUSTOMER APU.
*STAMP A OR B BELOW.
*_____A. ELR ITEMS NOT PRESENT. PROCEED TO NEXT ITEM.
*_____B. ELR ITEMS ARE PRESENT. TRANSFER ALL ASSIGNED
* "ELR" ITEMS TO NON ROUTINES. INDICATE ON
* NON ROUTINES TO ACCOMPLISH "ENDATA"
* TRANSACTION IN AMIS (MODE 69) WHEN
* NON ROUTINES ARE CLEARED.
* LIST ELR NUMBER(S) AND EQUIVALENT NON ROUTINE
* NUMBER(S) BELOW.

*ELR	NON ROUTINE	ELR	NON ROUTINE
*			
*			
*			
*			
*			
*			

_____ I

ENGINE TO BE COMPLETELY DISASSEMBLED, ALL MODULES TO BE ROUTED FOR DISASSEMBLY, NO FURTHER SIGN-OFFS REQUIRED.

UNITED

Job Instruction Card

GTCP331-200 BASE CHECK INSPECTION
REV. 08/01/03

V528 62697 V0102.0
AIRCRAFT NO. ENGINE NO. JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

1	_____I	1. VISUALLY INSPECT DRIVEN COMPRESSOR IMPELLER BLADES INCLUDING LEADING AND TRAILING EDGES FOR DAMAGE WITH BORESCOPE.
2		
3		
4		
5	_____I	2. VISUALLY INSPECT POWER SECTION C1 IMPELLER BLADES FOR DAMAGE AND IRREGULARITIES.
6		
7		
8	_____I	3. VISUALLY CHECK INLET OF DRIVEN COMPRESSOR AND POWER SECTION FOR DAMAGE.
9		
10	_____I	4. VISUALLY INSPECT EXPOSED AREAS OF GEARBOX.
11	_____I	5. VISUALLY INSPECT POWER SECTION INSULATION BLANKET AND HEAT SHIELD EXPOSED AREAS INCLUDING COMBUSTION CHAMBER CASE DUCT AREA.
12		
13		
14	_____I	6. VISUALLY INSPECT GEARBOX MOUNTS.
15	_____I	7. VISUALLY INSPECT FWD AND AFT MOUNT BRACKETS.
16	_____I	8. VISUALLY INSPECT COOLING FAN AND SURGE VALVE DUCTING.
17	_____I	9. VISUALLY INSPECT PLUMBING AND COMPONENTS.
18		EMAC 60 4953 000AA 1C
19		MRB 49-044 - 757
20		MRB 49-045 767
21	_____I	10. VISUALLY INSPECT DRAIN LINES, DRAIN MAST AND CONNECTIONS.
22		
23	_____I	11. VISUALLY INSPECT FUEL SYSTEM PLUMBING AND COMPONENTS.
24		
25	_____I	12. VISUALLY INSPECT EXHAUST CASE AND MUFFLER.
26	_____I	13. VISUALLY INSPECT ALL VISIBLE CLAMPS AND BRACKETS.
27		
28		
29		
30		
31		
32		
33		
34		
35		

UNITED

Job Instruction Card

GTCP331-200 BASE CHECK INSPECTION
REV. 08/01/03

V528	62697	V0102.0
MODEL	ENGINE NO.	JOB NO.

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

****

NON-ROUTINES ISSUED:

W/C E74 JAS

END JOB V-0102.0 REVISED 08/01/03

Job Instruction Card

GTCP331-200 COVER PAGE, ENGINE DISASSY/ASSY
REV. 08/13/03

V528	62697	V1000.0
CSCT NO	ENGINE NO	JOB NO

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

NOTE - RIGHT SIGN-OFF COLUMN FOR JOB ISSUED.
LEFT SIGN-OFF COLUMN FOR JOB COMPLETED.

1. THE FOLLOWING JOBS ARE SIGNED OFF CORRECTLY OR ACCOUNTED FOR PROPERLY.
2. ALL ITEMS THAT ARE 'X'ED OUT ARE NOT REQD. THIS VISIT.

X460		V1010.0 ENGINE DISASSEMBLY
X460		V1020.0 EXTERNAL PARTS CLEANING
X460	L902	V1040.0 ENGINE ASSEMBLY - UAL
X460	L902	V1040.1 ENGINE ASSEMBLY - CUSTOMER
		V1080.0 QEC REMOVAL
X460		V1090.0 QEC INSTALLATION
		V1090.1 QEC INSTALLATION - B757
X460	X460	49-10-01/IS02 - ENGINE STALL INSPECTION.
X460		

3. THE FOLLOWING NON-ROUTINE CARDS ARE SIGNED OFF CORRECTLY AND ACCOUNTED FOR. BLANK SPACES INDICATE NO NON-ROUTINES WERE ISSUED.

N/R #	SIGN OFF	N/R #	SIGN OFF	N/R #	SIGN OFF
.....	.....	.....	.....	.....	.....

(SFOPB) COORDINATOR. X460 DATE Apr. 14, 2004
W/C 551 SRB

END JOB V-1000.0 REVISED 08/13/03

UNITED

Job Instruction Card

331 49-10-01 ENGINE DISASSEMBLY
REV. 06/15/00

V528 | 62697 | V1010.0
ENGINE NO. | JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-10-01.

M 6526 1. REMOVE GENERATOR.
M 6526 2. REMOVE SURGE VALVE AND DUCTS.
M 6526 3. REMOVE COOLING FAN DUCTS.
M 6526 4. REMOVE OIL COOLER.
M 6526 5. DISCONNECT AND REMOVE ELECTRICAL HARNESS.
M 6526 6. REMOVE ENGINE PLUMBING.
M 6526 7. REMOVE BLEED AIR DUCT.
M 6526 8. REMOVE COOLING FAN.
M 6526 9. REMOVE STARTER.
M 6526 10. REMOVE FUEL CONTROL.
M 6526 11. REMOVE LUBE PUMP.
M 6526 12. REMOVE GENERATOR SCAVENGE FILTER.
M 6526 13. REMOVE GEARBOX ADAPTER, SOLENOID VALVE AND REGULATOR VALVE.
M 6526 14. *REMOVE MANUFACTURING ENGINE DATA PLATE.
M 6526 15. REMOVE INLET PLENUM.
M 6526 16. DISASSEMBLE UPPER INLET PLENUM.
M 6526 17. REMOVE INLET SCREENS.
M 6526 18. REMOVE GEARBOX.
M 6526 19. REMOVE DRIVEN COMPRESSOR.

551 TMA/6045L JAS/06-15-00
551 LAH

END JOB V-1010.0 REVISED 06/15/00

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

UNITED

Job Instruction Card

GTCP331-200 EXTERNAL PARTS - CLEANING
REV. 06/03/03

V528 62697 V1020.0
ORDER NO. ENGINE NO. JOB NO.

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

1. U 2100 UTILITY MECHANIC (U) CLEAN EXTERNAL COMPONENT PARTS PER GN 4-0-3-20 PROCESS 01 (SOLVENT CLEAN), AND/OR GN 4-0-3-20 PROCESS 2C.

A. OIL LINES, DUCT ASSEMBLIES, OIL FITTINGS AND TUBES. WASH EXTERIOR AND INJECT SOLVENT INTO INTERIOR PASSAGES. ASSURE ALL PASSAGES ARE NOT OBSTRUCTED AND FREE OF DEPOSITS

551 JAS

END JOB V-1020.0 REVISED 06/03/03

1077 L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

GTCP331-200 ENGINE ASSEMBLY - UAL
REV. 09/15/03

V528	62697	V1040.0
ORDER NO.	ENGINE NO.	JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-10-01/SP01.

LM 6956 1.*INSTALL DRIVEN COMPRESSOR.

M 6526 2. INSTALL INLET SCREENS.

LM 6956 3.*INSTALL GEARBOX.

M 6526 4. PREASSEMBLE UPPER INLET PLENUM.

M 6526 5. INSTALL INLET PLENUM.

M 6526 6. INSTALL MANUFACTURING ENGINE DATA PLATE

M 6526 7. INSTALL MONOPOLES.

M 6526 8. INSTALL GENERATOR SCAVENGE FILTER AND GENERATOR DELTA P SWITCH.

M 6526 9. INSTALL GEARBOX ADAPTER, DE-OIL SOLENOID VALVE AND REGULATOR VALVE (ETOPS CONFIGURATION).

M 6526 10. INSTALL LUBE PUMP DE-OIL TUBE AND FUEL CONTROL. (ETOPS CONFIGURATION)

M 6526 11. INSTALL MAIN OIL FILTER ELEMENT.

M 6526 12. INSTALL LRU CLUTCH ASSEMBLY.

M 6956 13. INSTALL OIL COOLER.

M 6526 14. INSTALL STARTER. (ETOPS CONFIGURATION)

L

ALL ITEMS ARE PROPERLY SIGNED OFF.

STATUS OF TENS STARTD BUT NOT SIGNED OFF

V528 62697 V1040.0
ENGINE NO. JOB NO

ITEM 18. IGV ACTUATOR WAS INSTALLED DURING LOAD COMP. ASSEMBLY. Mike Gracik 65672 6526

M 6526 15. INSTALL COOLING FAN.
DUPLICATE SIGN-OFF ON JOB V0101.1
DUPLICATE SIGN-OFF ON JOB V0101.2

M 6526 16. INSTALL FLOW DIVIDER VALVE.

M 6956 17. INSTALL BLEED AIR DUCT.

M 6526 18. INSTALL IGV ACTUATOR.

M 6956 19. INSTALL SURGE CONTROL VALVE.

M 6956 20. INSTALL COMBUSTOR DRAIN PRESSURE RELIEF VALVE.

M 6956 21. INSTALL ENGINE PLUMBING.

M 6526 22. INSTALL FLOW SENSING MODULE.
CHECK FLOW SENSE MODULE AND INDICATE A OR B BELOW.
6526 A. ADJUSTABLE
B. NON-ADJUSTABLE

M 6956 23. INSTALL COMPRESSOR INLET PRESSURE SENSOR (P2)

M 6526 24. INSTALL GEARBOX SHUTOFF VALVE.

M 6526 25. INSTALL OIL LEVEL SWITCH.

M 6526 26. INSTALL LOW OIL TEMPERATURE SWITCH.

M 6956 27. INSTALL ELECTRICAL HARNESS.
(VERIFY DATE TAG IS INSTALLED)

M 6956 28. INSTALL OIL COOLER AND FLEX LINES COA 5-9104
(ETOPS CONFIGURATION).

L977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

GTCP P/N	ENGINE NO.	JOB NO.
V528	62697	V1040.0

M 6956 29. INSTALL COOLING FAN DUCTS.

M 6956 30. INSTALL SURGE VALVE DUCTS.

M 6956 31. INSTALL GENERATOR

NOTE - LUBRICATE APU INPUT SPLINE SHAFT AND O-RINGS WITH GRE4505-1 (CMP 49-01-01).

M 6526 32. INSTALL LOP SWITCH.(ETOPS CONFIGURATION)

M 6526 33. INSTALL HOT SWITCH.

M 6956 34. INSTALL IGNITION EXCITER (ETOPS CONFIGURATION)

M 6956 35. INSTALL GENERATOR AND CONFIRM INSTALLATION OF 1 GENERATOR MAGNETIC CHIP DETECTORS (ETOPS CONFIGURATION).

M 6956 36. INSTALL IGNITION PLUG AND LEAD.

M 6956 37. INSTALL PRISMATIC OIL LEVEL SIGHT GAGE COA 6-9237.

M 6956 38. INSTALL 331-200ER APU DATA PLATE (ETOPS CONFIGURATION) COA 5-9004.

M 6526 39. INSTALL FRONT ENGINE MOUNTS.
--------CONTINUOUS AIRWORTHINESS ITEM----------
CHECK SAFETY

M 6956 40. INSTALL OIL CAP AND ADAPTER ASSEMBLY COA 5-9110.

ITEM 33 LS ACCF 6526 WAS NOT REMOVED. Tillo Grant C5672 6526

1977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

GTCP331-200 ENGINE ASSEMBLY - UAL
REV. 09/15/03

V528 62697 V1040.0
MODEL NO. ENGINE NO. JOB NO.

STATUS OF ITEMS (PARTS BUT NOT SIGNED OFF

1977 LM 6956 41. FINAL ASSEMBLY VERIFICATION.

A. VISUALLY VERIFY ALL PLUMBING IS PROPERLY INSTALLED.

B. VISUALLY VERIFY ALL ELECTRICAL CONNECTORS ARE INSTALLED.

C. VISUALLY VERIFY INLET IS FREE OF F.O.D.

D. VERIFY PRESENCE AND CONDITION OF SAFETY WIRING.

E. VERIFY ENGINE ROTATES SMOOTHLY. LIMITED RUB OF SEALS IN POWER SECTION IS ACCEPTABLE.

551 JAS

END JOB V-1040.0 REVISED 09/15/03

L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

COA Y91710 GTCP331-200 COOLING FAN VALVE DELETION

REV. 10/27/98

V528	62697	V9086.0
ORDER NO.	ENGINE NO.	JOB NO.

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

* NO COOLING FAN VALVE INSTALLED. ENG. HAD STRAIGHT DUCT INSTALLED PLENUM HAS NO MOUNT SHELF FOR VALVE. 6956

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CCCCCCC      000000      AAAA
CCCCCCCC    00    00    AA  AA
CCC         00    00   AA    AA
CCC         00    00   AAAAAAAAAA
CCCCCCCC    00    00   AA      AA
 CCCCCCC     000000    AA      AA
```

WORK CENTER - 551 STALL

*EFFECTIVITY - B757-222 AIRCRAFT

SFOEP CONTACT - FERNANDO CRAFF 4-2386

****

ON COMPLETION OF THIS JIC ENTER "ON" INFORMATION BELOW FOR ENGINE TYPE V AND ACCOMPLISH EMOEVT ON PRTSRV TRANSACTION.

ENGINE ORDER NUMBER V528

ENGINE SERIAL NUMBER 62697

****

NOTE - ACCOMPLISH ALL REMOVAL/INSTALLATION REQUEST PER APPLICABLE JOB INSTRUCTION CARDS (JIC).

REASON - MODIFICATION OF THE COOLING FAN SHUT OFF VALVE AND WIRING HARNESS ASSEMBLY AND REPLACEMENT OF THE COOLING FAN SHUT OFF VALVE WITH VALVE BODY ASSEMBLY.

UNITED

COA Y91710 GTCP331-200 COOLING FAN VALVE DELETION,
REV. 10/27/98

ORDER NO. 92697 ENGINE NO. V9086.0 JOB NO.

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

CURRENT PARTS AFFECTED

OLD P/N	ACTION	NEW P/N	QTY	DESCRIPTION
397728-4-1	RWK	3617459-1	1	VALVE ASSEMBLY
3884227-1	DIS	N/A	1	PNEU TUBE
		MS21914-4	1	CAP

6956 M ___ 1. DRAW FROM STOCK VALVE BODY ASSEMBLY P/N 3617459-1.
DUPLICATE SIGN-OFF ON JOB V9086.1

6956 M ___ 2. REMOVE PNEUMATIC TUBE P/N 3884227-1 FROM SURGE CONTROL VALVE P/N MR49532, TO COOLING FAN SHUTOFF VALVE. REFER TO IPC 49-10-00A-000G, ITEM 10.
DUPLICATE SIGN-OFF ON JOB V9086.1

6956 M ___ 3. REMOVE COOLING FAN SHUTOFF VALVE PN MR49505 FROM APU.
DUPLICATE SIGN-OFF ON JOB V9086.1

6956 M ___ 4. INSTALL MODIFIED VALVE BODY ASSEMBLY PN 3617459-1.
DUPLICATE SIGN-OFF ON JOB V9086.1

6956 M ___ 5. INSTALL CAP PN MS21914-4 ON SURGE CONTROL VALVE FITTING, WHERE REMOVED PNEUMATIC LINE USED TO BE CONNECTED.
DUPLICATE SIGN-OFF ON JOB V9086.1

6956 M ___ 6. ROUTE REMOVED COOLING FAN SHUTOFF VALVE TO WC122, STATING REASON FOR REMOVAL: MODIFY PER COA Y9171.0.
DUPLICATE SIGN-OFF ON JOB V9086.1

6956 M ___ 7. DISCARD LOCALLY REMOVED TUBE P/N 3884227-1.
DUPLICATE SIGN-OFF ON JOB V9086.1

UNITED

COA Y91710 GTCP331-200 COOLING FAN VALVE DELETION

REV. 10/27/98

V528 | 692697 | V9086.0
ORDER NO. | ENGINE NO. | JOB NO.

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

6956 X

8. WIRING HARNESS MODIFICATION PROCEDURE ON APU:

(A) REMOVE P21 CONNECTOR AND IDENTIFY PIN 1 WIRE.

(B) CUT BACK PIN 2 WIRE, INSTALL AND CRIMP-ON TERMINATOR CAP.

(C) DISASSEMBLE P6 CONNECTOR BACK SHELL, LOCATE AND REMOVE PIN 1.

(D) RE-ROUTE PIN 1 WIRE AND P21 CONNECTOR INTO WIRE BUNDLE FOR P6.

(E) SPLICE P21 CONNECTOR NO.1 WIRE INTO P6 CONNECTOR NO.1 WIRE. A MINIMUM OF 12 INCHES BACK FROM P6 CONNECTOR. USE SOLDER SLEEVE P/N D101-00 (561-5093).

(F) PLACE HEAT SHRINK SLEEVING P/N INS6141B1/8BK (560-8983) OVER JOINT AND SHRINK IN PLACE.

(G) RE-ASSEMBLE P6 CONNECTOR, AND RETIE WIRES AS NEEDED.

DUPLICATE SIGN-OFF ON JOB V9086.1

551 JAS

END JOB V-9086.0 REVISED 10/27/98

Job Instruction Card

COA Y95591 FLOW SENSE MODULE PALLET ASSY REWORK
REV. 02/26/04

V528 | 62697 | V9108.0
ENGINE NO. | JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

* FLOW SENSE MODULE REC'D FROM SHOP W/COA ALREADY COMPLETE, INSTALL ONLY 6956

X460

```
 CCCCCCC   OOOOOO      AAA
CCCCCCC   OO    OO    AA AA
CCC       OO    OO   AA   AA
CCC       OO    OO  AAAAAAAAA
CCCCCCC   OO    OO  AA     AA
 CCCCCCC   OOOOOO   AA     AA
```

WORK CENTER - 551 STALL

REFERENCE - Y95591 ER1 SB GTCP331-49-7711

EFFECTIVITY - V

APPENDIX PAGES - NONE CATEGORY - 2

SFOEP CONTACT - GEORGE SKOUFOS EXT - 4-2383

****

ON COMPLETION OF THIS JIC ENTER "ON" INFORMATION BELOW FOR ENGINE TYPE V AND ACCOMPLISH EMOEVT ON PRTSRV TRANSACTION.

ENGINE/ ORDER NUMBER V528

ENGINE/ SERIAL NUMBER 62697

****

NOTE - ACCOMPLISH ALL REMOVAL/INSTALLATION REQUEST PER APPLICABLE JOB INSTRUCTION CARDS (JIC).

REASON - REWORK FLOW SENSE MODULE TO ALLOW FLOW SENSOR PROBE TO BE INSTALLED SEPARATELY AND ADJUSTED IN THE TEST CELL TO AN INDIVIDUAL APU.

Job Instruction Card

COA Y95591 FLOW SENSE MODULE PALLET ASSY REWORK
REV. 02/26/04

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

1598 (ENGINE NO.) 63697 (JOB NO.) V9108.0

CURRENT PARTS AFFECTED

OLD P/N	ACTION	NEW P/N	QTY	DESCRIPTION
3614400-1/-7/-8	RWK	3885081-1	1	FLOW MODULE
NONE	INST	3614408-1	1	PROBE,PT
NONE	INST	3614104-4	1	SENSOR,PS
NONE	INST	3876179-2	1	GASKET
NONE	INST	MS9565-04	1	BOLT
NONE	INST	NAS1149CO332R	1	WASHER
NONE	INST	3614649-1	1	COVER
NONE	INST	NAS1216-3E5	1	SCREW
NONE	INST	MS9386-109	4	PACKING
NONE	INST	MS9565-07	2	BOLT

ITEM 1B - COMPLETED COA ACP BY SHOP, INSTALLED ON UP ON ENGINE AT BUILD-UP 6956

M ~~6956~~ 1. VISUALLY CHECK FOR NEW FLOW SENSE MODULE ASSY PN 3885081-1. STAMP A OR B BELOW.

_____A. NEW FLOW SENSE MODULE NOT INSTALLED, PROCEED TO NEXT ITEM, STEP #2.

6956 B. NEW FLOW SENSE MODULE IS INSTALLED. NO FURTHER SIGNOFF REQUIRED. PROCEED TO LAST ITEM, STEP #8.

6956
M X 2. DISASSEMBLE APU TO THE EXTENT NECESSARY TO REMOVE THE PNEUMATIC FLOW SENSING MODULE PN 3614400-1/-7/-8. CHECK THE FLOW SENSING MODULE AND STAMP A OR B BELOW:

_____A. ADJUSTABLE

_____B. NON-ADJUSTABLE

NOTE - IF NON-ADJUSTABLE FLOW SENSOR MODULE INSTALLED CONTACT SFOPB-PLANNER TO PROVIDE ADJUSTABLE FLOW SENSOR TO BE INSTALLED DURING ASSSEMBLY OF APU.

COA V95591 FLOW SENSE MODULE PALLET ASSY REWORK
REV. 02/26/04

1528 | 62697 | V9108.0
ORDER NO. ENGINE NO. JOB NO.

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

6956 MG

3. ATTACH I&R TAG TO REMOVED PNEUMATIC FLOW SENSING MODULE ASSEMBLY PN 3614400-1/-7/-8, MR49101 PCN 265-9107.
WRITE ON I&R TAG - "UPGRADE PER CCOA 0-5585"

NOTE - AFTER UNIT IS ROUTED TO HOME SHOP 122 FOR COA UPGRADE, THE MODIFIED PN 3885081-1 MR49115 PCN 265-9157 WILL BE RETURNED TO THE APU SHOP TO BE INSTALLED ON THE SAME APU. THE FLOW SENSOR PROBE WILL BE ATTACHED TO THE PNEUMATIC MODULE IN A BAG TO BE INSTALLED DIRECTLY ONTO THE ENGINE.

COA Y95591 FLOW SENSE MODULE PALLET ASSY REWORK

REV. 02/26/04

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

1538 | 62697 | V9108.0

ENGINE NO. JOB NO

6956 M

4. ASSEMBLE THE PROBES.

(A) INSTALL PACKINGS PN MS9386-109 ON THE STATIC PRESSURE SENSOR PROBE PN 3614104-4.

(B) INSTALL WASHER PN NAS1149C0332R ON BOLT PN MS9565-04 AND INSTALL STATIC PRESSURE SENSOR PROBE PN 3614104-4 WITH BOLT INTO TOTAL PROBE HOUSING PN 3614408-1.

(C) ALIGN CENTER SCRIBE MARKING ON STATIC PRESSURE SENSOR PROBE WITH SCRIBE MARKING ON TOTAL PROBE. TIGHTEN ADJUSTMENT BOLT PN MS9565-04 TO 35 POUND-INCHES.

NOTE - SAFETY WIRE WILL BE INSTALLED AFTER TEST CELL FINAL ADJUSTMENT OF THE PROBE SETTINGS.

(D) INSTALL PROTECTIVE COVER PN 3614649-1 WITH SCREW PN NAS1216-3E5

6956 M

5. INSTALL THE PROBES AND GASKET INTO THE APU.

(A) INSTALL THE PROBES AND GASKET PN 3876179-2 WITH BOLTS PN MS9565-07. TIGHTEN BOLTS TO 50-55 POUND-INCHES TORQUE. SAFETY WIRE.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

COA Y95591 FLOW SENSE MODULE PALLET ASSY REWORK
REV. 02/26/04

11528 | 62697 | V9108.0
ENGINE NO. | JOB NO.

6956 M X 6. INSTALL THE PNEUMATIC MODULE ASSEMBLY:
(A) INSTALL THE PNEUMATIC MODULE PALLET ASSY PN 3885081-1 TO THE SCROLL HOUSING.

NOTE - THE PALLET BASE PLATE IS POSITIONED UNDERNEATH THE PROBE FLANGE.

(B) INSTALL JUMPER WIRE PN MS25083-7BB4 FROM THE PALLET TO THE BOLT PN MS9556-07. INSTALL BOLTS PN MS9556-06 AND PN MS9556-07 AND TIGHTEN TO 35 POUND-INCHES TORQUE.

(C) ATTACH WIRING HANRESS CONNECTORS. SAFETY WIRE.

6956 M X 7. ATTACH MANIFOLD TUBES:
(A) INSTALL PACKINGS PN MS9386-109 TO MANIFOLD TUBES PN 3615873-1 AND PN 3614411-1.

CAUTION - MAKE SURE PACKINGS ARE INSTALLED PRIOR TO TUBE INSTALLATION INTO PROBES.

(B) INSTALL TWO MANIFOLD TUBES FROM THE PALLET ASSEMBLY TO THE PRESSURE PROBE ASSEMBLY. ATTACH WITH RETAINERS PN 3614419-1 AND BOLTS PN MS9556-04. TIGHTEN BOLTS PN MS9556-04 TO 35 POUND-INCHES.

X460 . 8. PERFORM EMOEVT AND SHOW ACCOMPLISHMENT OF CMCOA Y-95591.

551 SRB

END JOB V-9108.0 REVISED 02/26/04

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

Job Instruction Card

COA 0-9227 757/767 PNEU FLOW SEN MOD UPGRADE
REV. 07/22/99

ORDER NO.	ENGINE NO.	JOB NO.
V528	62697	V9088.0

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CCCCCCCC OO OO AA AA
CCCCCCC OOOOOO AA AA

WORK CENTER - 551 STALL

EFFECTIVITY - 757/767 (GTCP 331-200 APU)

SFOEP CONTACT - FERNANDO CRAFF 4-2386

****

ON COMPLETION OF THIS JIC ENTER "ON" INFORMATION BELOW FOR ENGINE TYPE V AND ACCOMPLISH EMOEVT ON PRTSRV TRANSACTION.

ENGINE ORDER NUMBER V528

ENGINE SERIAL NUMBER 62697

****

NOTE - ACCOMPLISH ALL REMOVAL/INSTALLATION REQUEST PER APPLICABLE JOB INSTRUCTION CARDS (JIC).

REASON - PROVIDE TECHNICAL INFORMATION FOR THE REPLACEMENT OF THE OLD PNEUMATIC CLUSTER, WITH THE INSTALLATION OF THE NEW PNEUMATIC FLOW SENSING MODULE ON THE APU.

UNITED

Job Instruction Card

COA 0-9227 757/767 PNEU FLOW SEN MOD UPGRADE
REV. 07/22/99

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

V528 62697 W9088.0
ORDER NO. ENGINE NO. JOB NO.

CURRENT PARTS AFFECTED

OLD P/N	ACTION	NEW P/N	QTY	DESCRIPTION
3614400-0-600U	RPL	3614400-1	1	PNEU. CLUSTR AY
3880436-1	RPL	3614748-1	1	SCAVENGE TUBE
3611159-1	RPL	3614747-1	1	FWD BRG VNT TUBE
3880257-1	RPL	3880438-1	1	MID-BRG TUBE (L)
3880258-1	RPL	3880568-1	1	MID-BRG TUBE (R)
3880239-2	RPL	3880360-2	1	DRAIN FITTING
MS21907W4	RPL	MS21902J4	1	UNION
3876096-1	RPL	3614673-1	1	STATIC RING/SPCR
3880262-1	RPL	3880648-1	1	DRAIN TUBE

M 6526 1. VERIFY IF COA HAS BEEN PREVIOUSLY ACCOMPLISHED BY LOOKING AT SERIAL NUMBER DATA PLATE. IF SERIAL NUMBER IS BELOW 61632, PROCEED TO NEXT STEP.

M 6526 2. DRAW FLOW SENSING MODULE KIT (PCN 106-0014) FROM KIT STORES.

M 6526 3. DRAW FROM STOCK, A FLOW SENSING MODULE P/N 3614400-1 (PCN 265-9107). USE CCN # E55-35-179227 (COA 0-9227).

M 6526 4. REMOVE OLD PNEUMATIC CLUSTER ASSEMELBY P/N 3614400-0-600U. STATE COA 0-9227 AS REASON FOR REMOVAL AND ROUTE TO SHOP 122.

M 6526 5.*REMOVE STATIC RING P/N 3876096-1 AND SCRAP LOCALLY.
*INSTALL SPACER P/N 3614673-1.

M 6526 6. REMOVE MID-FRAME SCAVENGE TUBE P/N 3880436-1, AND INSTALL NEW TUBE P/N 3614748-1.

UNITED

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

ORDER NO.	ENGINE NO.	JOB NO.
1528	62697	V9088.0

M 6526 7. REMOVE FORWARD BEARING TUBE P/N 3611159-1.

M 6526 8. REMOVE OLD (CROSS TYPE) DRAIN FITTING P/N 3880239-2, AND INSTALL DRAIN FITTING P/N 3880360-2.

M 6526 9. REMOVE ELBOW P/N MS21907W4 FROM DRIVEN COMPRESSOR, FORWARD BEARING VENT TUBE CONNECTION, AND INSTALL UNION P/N MS21902J4.

M 6526 10. INSTALL FORWARD BEARING TUBE P/N 3614747-1.

M 6526 11. REMOVE LEFT MID-BEARING TUBE P/N 3880257-1, AND INSTALL NEW TUBE P/N 3880438-1.

M 6526 12. REMOVE RIGHT MID-BEARING TUBE P/N 3880258-1, AND INSTALL NEW TUBE P/N 3880568-1.

M 6526 13. INSTALL DRAIN TUBE P/N 3880648-1 TO DRAIN FITTING P/N 3880360-2 AND DRAIN CLUSTER ASSEMBLY.

M 6526 14. INSTALL NEW FLOW SENSING MODULE P/N 3614400-1.

551 JAS

END JOB V-9088.0 REVISED 07/22/99

Job Instruction Card

COA 5-9004 B757 331 APU S/N DATA PLATE INSTALL

REV. 04/01/96

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

1538	62697	V9039.0
ORDER NO.	ENGINE NO.	JOB NO.

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CCC         00    00   AA    AA
CCC         00    00   AAAAAAAAAA
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WORK CENTER - 551 STALL (INSTALLATION)

SFOEP CONTACT - B. MISKIMEN

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X460.

ON COMPLETION OF THIS JIC ENTER "ON" INFORMATION BELOW FOR ENGINE TYPE V AND ACCOMPLISH EMOEVT ON PRTSRV TRANSACTION.

- ENGINE ORDER NUMBER 1538

- ENGINE SERIAL NUMBER 62697

****

NOTE - ACCOMPLISH ALL REMOVAL/INSTALLATION REQUEST PER APPLICABLE JOB INSTRUCTION CARDS (JIC).

REASON - TO INSTALL SERIAL NUMBER DATA PLATE TO STANDARDIZE B757 AND B767 APU CONFIGURATIONS FOR INTERCHANGEABILITY.

CURRENT PARTS AFFECTED

OLD P/N	ACTION	NEW P/N	QTY	DESCRIPTION
- -		MR49112	1	APU
- -	NEW	3F16840-1	1	BRACKET

COA 5-9004 B757 331 APU S/N DATA PLATE INSTALL
REV. 04/01/96

ORDER NO.	ENGINE NO.	JOB NO.
1528	62697	V9039.0

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

L977 L

1. CHECK FOR PREVIOUS ACCOMPLISHMENT AND CIRCLE A OR B BELOW.
   A. PREVIOUSLY ACCOMPLISHED. NEW P/N BRACKET AND PLACARD IS INSTALLED ON THE GRBX FLANGE BELOW THE RIGHT HAND FORWARD MOUNT. NO FURTHER ACTION REQUIRED.

   B. NOT ACCOMPLISHED. PROCEED TO NEXT ITEM.

M 6956 2. *OBTAIN BRACKET AND PLACARD FROM BENCH STOCK. INSTALL *PLACARD ON BRACKET USING SIL3000-5 SILICONE ADHESIVE.

M 6966 3. INSTALL BRACKET/PLACARD ASSEMBLY ONTO GEARBOX FLANGE PER UA IPC 49-27-00A-000D.

551 ENGINEER - BOB MISKIMEN SRB

END JOB V-9039.0 REVISED 04/01/96

UNITED

Job Instruction Card

COA 5-9110 B757/767 GTCP331 APU OIL CAP/ADPTR AY

REV. 08/05/97

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

ORDER NO	ENGINE NO	JOB NO
1528	636997	V9052.0

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WORK CENTER - 551 STALL

SFOEP CONTACT - B. MISKIMEN

****

ON COMPLETION OF THIS JIC ENTER "ON" INFORMATION BELOW FOR MODULE TYPE I AND ACCOMPLISH EMOEVT ON PRTSRV TRANSACTION.

ENGINE/MODULE ORDER NUMBER 1528

ENGINE/MODULE SERIAL NUMBER 636997

****

NOTE - ACCOMPLISH ALL REMOVAL/INSTALLATION REQUEST PER APPLICABLE JOB INSTRUCTION CARDS (JIC).

REASON - TO REPLACE OIL CAP AND ADAPTER ASSY PN 3862211-1 WITH A HINGED CAP AND ADAPTER ASSY 428-259.

COA KIT - 106-4025

COA 5-9110 B757/767 GTCP331 APU OIL CAP/ADPTR AY
REV. 08/05/97

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

ORDER NO.	ENGINE NO.	JOB NO.
11528	62697	V9052.0

CURRENT PARTS AFFECTED

OLD P/N	ACTION	NEW P/N	QTY	DESCRIPTION
3862211-1	RPL	428-259	1	CAP/ADPTR AY
428-184	RPL	428-282	1	CAP ASSY

M 4897 1. CHECK FOR PREVIOUS ACCOMPLISHMENT.

M 4897 2. REMOVE OLD CAP AND ADAPTER ASSEMBLY, PN 3862211-1.

M 4897 3. DRAW NEW CAP AND ADAPTER ASSEMBLY, PN 428-259 FROM KIT STORES (106-4025) AND (750-2436).

M 4897 4. INSTALL NEW CAP AND ADAPTER ASSEMBLY, PN 428-259 WITH O-RING/PACKING M83248/1-147.

551 GMS

END JOB V-9052.0 REVISED 08/05/97

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

Job Instruction Card

COA 5-9127 331-200 APU SURGE CNTRL PLMBING MOD
REV. 04/27/00

ORDER NO.	ENGINE NO.	JOB NO.
1528	62697	V9080.0

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WORK CENTER - 551 STALL

SFOEP CONTACT - FERNANDO CRAFF 4-2386

****

ON COMPLETION OF THIS JIC ENTER "ON" INFORMATION BELOW FOR ENGINE TYPE V AND ACCOMPLISH EMOEVT ON PRTSRV TRANSACTION.

ENGINE ORDER NUMBER 1528

ENGINE SERIAL NUMBER 62697

****

NOTE - ACCOMPLISH ALL REMOVAL/INSTALLATION REQUEST PER APPLICABLE JOB INSTRUCTION CARDS (JIC).

REASON - MODIFY THE SURGE CONTROL VALVE PLUMBING BY REMOVING THE EXISTING PNEUMATIC TUBE >>>>> P/N 3884404-1, AND REPLACING IT WITH A SERPENTINE TUBE P/N 1F17163.

UNITED

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

V528 (ORDER NO) 62697 (ENGINE NO.) V9080.0 (JOB NO.)

CURRENT PARTS AFFECTED

OLD P/N	ACTION	NEW P/N	QTY	DESCRIPTION
3884404-1	RPL	1F17163-501	1	TUBE-COOLING
3884413-1	RPL	1F17163-501	1	TUBE-COOLING
	INST	1F17164-501	1	HOSE ASSEMBLY
	INST	1F17164-502	1	HOSE ASSEMBLY
	INST	1F17165-501	1	BRACKET
	INST	1F17165-502	1	BRACKET
	INST	MS21902J4	1	UNION
	INST	MS21904-4	1	ELBOW-90 DEG.

M6956 1. DRAW KIT NUMBER 106-0016 UAL KIT STORES.

M9969 2. REMOVE EXISTING PCD2 TUBE P/N 3884404-1. (SEE IPC 49-10-00A-000E).

M6956 3. INSTALL COOLING AIR TUBE P/N 1F17163-501 TO APU UPPER PLENUM P/N 3810213-7 (SEE FIGURE 1 OR IPC).

A. ATTACH 2 EACH BRACKETS P/N 1F17165-501 AND P/N 1F17165-502 TO UPPER AFT SIDE OF INLET PLENUM, USING 4 NUT PLATES P/N MS21060-3 (753-4127), 8 RIVETS P/N BACR15DR3-2 (752-2572) AND 4 BOLTS P/N MS21279-04 (753-1843).

B. INSTALL COOLING AIR TUBE 1F17163-501 TO BRACKETS P/N 1F17165-501 AND 1F17165-502, USING 10 CLAMPS MS9349-03 ,(753-8346), 10 BOLTS P/N MS21279-05 (753-1759), AND 6 NUTS P/N MS21043-3 (752-2401).

C. REIDENTIFY PLENUM ASSEMBLY P/N 3810213-7 BY ADDING A U1 SUFFIX AFTER THE EXISTING PART NUMBER PER GN 1-0-1-7, VIBROPEEN METHOD.

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

M6956 4. INSTALL HOSE ASSEMBLY P/N 1F17164-501 AND CONNECT FROM PCD2 ELBOW TO LOWER FITTING OF COOLING AIR TUBE P/N 1F17163-501, WITH ELBOW P/N MS21904-4.

CAUTION - SUPPORT ELBOW WHEN TIGHTENING HOSE ASSEMBLY TO COOLING AIR TUBE.

M6956 5. INSTALL HOSE ASSEMBLY P/N 1F17164-502 FROM UPPER FITTING OF COOLING AIR TUBE TO UNION P/N MS21902J4, AND "T" FITTING OF GEARBOX SHUTOFF VALVE P/N 36168-2.

CAUTION - SUPPORT UNION WHEN TIGHTENING HOSE ASSEMBLY TO COOLING AIR TUBE.

M6956 6. SECURE HOSE ASSEMBLIES, USING CLAMPS, BOLTS, AND NUTS.

M6956 7. DISCARD REMOVED TUBE P/N 3884404-1 AND SCRAP LOCALLY.

551 GMS

END JOB V-9080.0 REVISED 04/27/00

Job Instruction Card

COA 6-9237 331 APU OIL LEVEL SIGHT GAUGE PLATE
REV. 12/07/95

V528	62697	V9041.0
ORDER NO.	ENGINE NO.	JOB NO

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

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CCCCCCCC     00    00    AA  AA
CCC          00    00   AA    AA
CCC          00    00   AAAAAAAAAA
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WORK CENTER - 551 STALL

SFOEP CONTACT - B. MISKIMEN

****

X460.

ON COMPLETION OF THIS JIC ENTER "ON" INFORMATION BELOW FOR ENGINE TYPE V AND ACCOMPLISH EMOEVT ON PRTSRV TRANSACTION.

- ENGINE ORDER NUMBER V528

- ENGINE SERIAL NUMBER 62697

****

NOTE - ACCOMPLISH ALL REMOVAL/INSTALLATION REQUEST PER APPLICABLE JOB INSTRUCTION CARDS (JIC).

THE FOLLOWING JIC(S) SHOULD BE ISSUED WITH THIS COA JIC:

1.V0101.0
2.V0101.2

REASON - TO ADD OIL LEVEL GRADUATED PLATE ON TOP OF OIL LEVEL SIGHT GAUGE TO IDENTIFY OIL LEVEL IN 1/2 QUART INCREMENTS FOR APU OPERATING AND APU OFF.

Job Instruction Card

COA 6-9237 331 APU OIL LEVEL SIGHT GAUGE PLATE
REV. 12/07/95

V528 | 62697 | V9041.0
ORDER NO. ENGINE NO. JOB NO

STATUS OF ITEMS START'D BUT NOT SIGNED OFF

CURRENT PARTS AFFECTED

OLD P/N	ACTION	NEW P/N	QTY	DESCRIPTION
	NEW	3F18137-1	1	PLATE-GRADUATED

L977 L 1. CHECK FOR PREVIOUS ACCOMPLISHMENT AND CIRCLE A OR B BELOW.
A. PREVIOUSLY ACCOMPLISHED. NEW P/N PLATE IS INSTALLED. NO FURTHER SIGN OFF IS REQUIRED.
B. NOT ACCOMPLISHED. NEW P/N PLATE IS NOT INSTALLED. PROCEED TO NEXT ITEM.

M 4897 2. REMOVE 8 BOLTS ON OIL LEVEL SIGHT GAUGE AND INSTALL NEW PART NUMBER PLATE USING BOLTS. TORQUE BOLTS 45 - 50 IN/LBS.

551 SRB

END JOB V-9041.0 REVISED 12/07/95

UNITED

Job Instruction Card

GTCP331-200 COVER PAGE, POWER SECTION
REV. 05/08/02

ENGINE S/N	ENGINE NO.	JOB NO.
NV518	61913	V2000.0

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

NOTE - RIGHT SIGN-OFF COLUMN FOR JOB ISSUED.
LEFT SIGN-OFF COLUMN FOR JOB COMPLETED.

1. THE FOLLOWING JOBS ARE SIGNED OFF CORRECTLY OR ACCOUNTED FOR PROPERLY.
2. ALL ITEMS THAT ARE 'X'ED OUT ARE NOT REQD. THIS VISIT.
   - V2010.0 TURBINE GROUP REMOVAL — X460 — 1962
   - V2011.0 COMPRESSOR/COMBUSTOR DISASSEMBLY — X460 — 1962
   - V2020.0 POWER SECTION - CLEANING — X460 — 1962
   - V2041.0 COMPRESSOR/COMBUSTOR ASSEMBLY — X460 — 1962
   - V2042.0 TURBINE GROUP ASSEMBLY — X460 — X460
   - V2043.0 TURBINE GROUP INSTALLATION — X460 — X460
   - V2043.5 TURBINE BEARING REMOVAL & INSTALLATION — X460 — X460

   *49-20-00/IS00 - POWER SECTION INSPECTION.
3. THE FOLLOWING NON-ROUTINE CARDS ARE SIGNED OFF CORRECTLY AND ACCOUNTED FOR. BLANK SPACES INDICATE NO NON-ROUTINES WERE ISSUED.

N/R #	SIGN OFF	N/R #	SIGN OFF	N/R #	SIGN OFF
5649	X460	4612	X460		

(SFOPB)COORDINATOR X460 DATE Apr. 13, 2004

ASSIGNED TO ENGINE ORDER NUMBER V528

W/C 551 EAH

END JOB V-2000.0 REVISED 05/08/02

UNITED

Job Instruction Card

331 49-20-02 TURBINE GROUP REMOVAL
REV. 03/11/99

NV518 | 61913 | V2010.0
MODEL NO. | ENGINE NO. | JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-20-02.

M 7068 1. REMOVE FLOW DIVIDER/DRAIN VALVE.

M 7068 2. REMOVE EXCITER, IGNITOR PLUG AND THERMOCOUPLES. DISCARD GASKETS.

M [illegible] 3. REMOVE INSULATION BLANKETS.

M 7068 4. REMOVE EXHAUST HOUSING AND MUFFLER.

M 7068 5. REMOVE FUEL MANIFOLDS. REMOVE FUEL NOZZLES AND SHROUDS. DISCARD GASKETS.

M [illegible] 6. REMOVE HEATSHIELD AND SCAVENGE PUMP.

M 7068 7. STRETCH TIESHAFT.

M 7068 8. DISASSEMBLE TURBINE BEARING CAPSULE. DISCARD GASKET AND SPRING WASHER. BAG TURBINE BEARING INNER AND OUTER RACE TO PRECLUDE CLEANING.

M 7068 9. REMOVE AND DISASSEMBLE TURBINE GROUP
NOTE - DISCARD USED PISTON SEAL RINGS FROM T1 STATOR AND T1 STATOR SUPPORT.
X460 PLANNER TO ISSUE: JIC V2050.0, V2021.0 AND INSPECTION 60-49-90-05/SP01.

M 7068 10. *IF ENGINE TSLV IS EQUAL TO OR GREATER THAN 3000 HOURS, *OR IT HAS EXPERIENCED M.I.S, DISASSEMBLE TURBINE *SCAVENGE PUMP PER SHOP PROCEDURE 331-49-24-01/SP01.

551 GMS

END JOB V-2010.0 REVISED 03/11/99

1977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

UNITED

Job Instruction Card

331 49-20-01 COMPRESSOR/COMBUSTOR DISASSEMBLY
REV. 11/22/85

MODEL NO	ENGINE NO	JOB NO.
NV518	61913	V2011.0

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH
GTCP331 SHOP PROCEDURE 49-20-01.

M7068 1. REMOVE COMBUSTOR.
M7068 2. REMOVE INLET HOUSING.
M7060 3. DISASSEMBLE FIRST STAGE COMPRESSOR.
M7060 4. DISASSEMBLE SECOND STAGE COMPRESSOR.
M7060 5. DISASSEMBLE COMPRESSOR HOUSING.
M7060 6. DISASSEMBLE INLET HOUSING.
M7060 7. DISASSEMBLE BEARING INLET HOUSING.

*551 LAH

END JOB V-2011.0 REVISED 11/22/85

L977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

GTCP331-200 POWER SECTION - CLEANING
REV. 04/27/01

NV518 61913 V2020.0
CUSTOMER NO. ENGINE NO. JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

1. L977 U _____ UTILITY MECHANIC (U) CLEAN POWER SECTION PARTS PER GN 4-0-3-20 PROCESS 01 (SOLVENT CLEAN), *AND/OR GN 4-0-3-20 PROCESS 2C.

2. U [illegible] UTILITY MECHANIC (U) PLASTIC PELLET BLAST THE THE FOLLOWING PARTS PER GN 4-0-0-6 PROCESS Q-09.

A. COMBUSTION CHAMBER.
B. COMBUSTION CHAMBER CASE.
C. 1ST STAGE TURBINE STATOR SUPPORT.
D. 1ST STAGE TURBINE STATOR ASSEMBLY.
E. 1ST STAGE TURBINE SHROUD.
F. 1ST STAGE TURBINE WHEEL ASSEMBLY.
G. 2ND STAGE TURBINE STATOR ASSEMBLY.
H 2ND STAGE TURBINE STATOR SUPPORT.
I. 2ND STAGE TURBINE WHEEL ASSEMBLY.
J. 3RD STAGE TURBINE STATOR ASSEMBLY.
K. 3RD STAGE TURBINE WHEEL ASSEMBLY.
L. ROTOR SEAL CURVIC COUPLING.
M. HEAT SHIELD.
*N. TIE SHAFT (INSIDE, SPLINED INSERT).
*O. TURBINE SCAVENGE PUMPQUILL SHAFT.

-977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

UNITED

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

GTCP331-200 POWER SECTION - CLEANING
REV. 04/27/01

NV518 61913 V2020.0
CUSTOMER ENGINE NO. JOB NO.

3. U_____ UTILITY MECHANIC (U) HEAVY DUTY CAUSTIC CLEAN - NO PHOSPHORIC ACID THE FOLLOWING PARTS PER GN 4-0-3-20 PROCESS 2A:

A. COMPRESSOR COUPLING STUB-SHAFT.
B. SHIELD-OIL TUBES.
C. FUEL NOZZLE SHROUDS.
D. GEAR SHAFT - (TURBINE PUMP QUILLSHAFT).
E. TURBINE OIL TUBES.
F. OIL JETS AND SPACERS.
G. TURBINE BEARING SUPPORT.
H. CURVIC COUPLING SHAFT - (TURBINE END).
I. T-BOLTS AND BEARING RETAINER.
J. TAIL CONE-SPACERS PLUS BOLTS.
K. ALL METAL CLAMPS.

W/C 551 JAS

END JOB V-2020.0 REVISED 04/27/01

L977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

331 COMPRESSOR/COMBUSTOR ASSEMBLY

REV. 12/30/03

NV518 61913 V2041.0
ORDER NO. ENGINE NO. JOB NO.

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

6712 Rev 1 was not disassembled 6712

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-20-01.

6712 6712
M ~~X~~ 1. INSTALL LABYRINTH SEAL ON COUPLING SHAFT.

M 6712 2. ASSEMBLE BEARING INLET HOUSING.

M 6712 3. ASSEMBLE SHROUD AND INLET HOUSING ASSEMBLY.

M 6712 4. DETERMINE FIRST STAGE COMPRESSOR ZERO FACE CLEARANCE DIMENSION.

RECORD DIMENSION A 0.880

M 6712 5. INSTALL BEARING INLET HOUSING ASSEMBLY.

M 6712 6. DETERMINE SHIM REQUIREMENTS FOR SHROUD AND INLET HOUSING.

0.880 DIMENSION A (FROM ABOVE)

- 0.783 DIMENSION B

- 0.041 INCH

= 0.056 + OR - .001 INCH, REQUIRED SHIMS

****

* 0.056 6712 REQUIRED SHIMS *

* -0.055 ACTUAL SHIMS USED *

* + .041 *

1962 L * = .042 CALCULATED C1 IMPELLER CLEARANCE *

****

M 6712 7. ASSEMBLE COMPRESSOR HOUSING.

1962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

UNITED

Job Instruction Card

331 COMPRESSOR/COMBUSTOR ASSEMBLY

REV. 12/30/03

NV518 61913 V2041.0
ENGINE NO JOB NO

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

M 6712 8. DETERMINE SECOND STAGE COMPRESSOR ZERO FACE CLEARANCE DIMENSION.

RECORD DIMENSION C 1.840

M 6712 9. DETERMINE SHIM REQUIREMENTS FOR INLET HOUSING AND COMPRESSOR HOUSING P/N 3826138-3 BY USING FORMULA BELOW:

6712 1.840 DIMENSION C (FROM ABOVE)

- 1.794 DIMENSION D

- 0.040 INCH

= 0.046 + OR - .001 INCH, REQUIRED SHIMS

****

* *

* 0.046 REQUIRED SHIMS *

* *

* -0.046 ACTUAL SHIMS USED *

* *

* + .040 *

* *

1992 L * = .040 CALCULATED C2 IMPELLER CLEARANCE *

* *

****

M 6712 10. INSTALL COMPRESSOR HOUSING ON MAINTENANCE STAND.

M 6712 11. ASSEMBLE COMPRESSOR AND DIFFUSER ASSEMBLY.

M 6712 12. INSTALL INLET HOUSING ASSEMBLY.

1962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

331 COMPRESSOR/COMBUSTOR ASSEMBLY

REV. 12/30/03

NV518 61913 V2041.0

ORDER NO. ENGINE NO. JOB NO.

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

M 6528 13. INSTALL COMBUSTION CHAMBER AND COMBUSTION CHAMBER CASE.

1908 L -----CONTINUOUS AIRWORTHINESS ITEM -----
CHECK COMBUSTOR INSTALLATION.

551 SRB

END JOB V-2041.0 REVISED 12/30/03

1908 L ALL ITEMS ARE PROPERLY SIGNED OFF.

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

Job Instruction Card

331 49-24-00 TURBINE GROUP ASSEMBLY.
REV. 07/28/97

NV518 61913 V2042.0
ORDER NO. ENGINE NO. JOB NO.

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-24-00.

LSS? LM 7227 1. MARK FIRST, SECOND, AND THIRD STAGE TURBINE STATORS FOR ALIGNMENT DURING INSTALLATION. REFERENCE SHOP PROOCEDURE 49-24-00, PAGE 703, ITEM D, NOTE 1.
*INSTALL NEW REPLACEMENT SEAL RINGS.

M____ 2. MEASURE FOR T1 SHROUD SHIMS, DIMENSIONS D.

0.____ "GAP" DIMENSION E
(AVERAGE OF BOLT HOLE LOCATIONS)
+ 0.025
= _____ DIMENSION D
(+/- 0.001 REQ'D T1 SHROUD SHIMS)

OR
3.847 DIMENSION A
- 3.834 DIMENSION B
= .013 DIMENSION C
0.025
- 0.013 DIMENSION C
= 0.012 DIMENSION D
(+/- 0.001 REQ'D T1 SHROUD SHIMS)

M____ 3. MEASURE FOR T2 STATOR SUPPORT SHIMS.

RECORD DIMENSION F 0.034

CAUTION - MEASURE FROM AREA AROUND BOLT HOLE FLANGE SURFACE.

_____L ALL ITEMS ARE PROPERLY SIGNED OFF.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

M[illegible] 4. ASSEMBLE TURBINE GROUP.

0.012 DIMENSION D (ABOVE + OR - 0.001 INCH)
(ACTUAL T1 SHROUD SHIMS USED)

0.034 DIMENSION F (ABOVE + OR - 0.001 INCH)
(ACTUAL T2 STATOR SUPPORT SHIMS USED)

551 GMS

END JOB V-2042.0 REVISED 07/28/97

[illegible]L ALL ITEMS ARE PROPERLY SIGNED OFF.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

Job Instruction Card

331 49-20-02 TURBINE GROUP INSTALLATION
REV. 02/13/03

NV518 | 61913 | V2043.0
ORDER NO. | ENGINE NO. | JOB NO.

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-20-02.

ASSIGNED ENGINER ORDER NUMBER 1528

M 1962 1. MEASURE FOR TURBINE GROUP SHIMS.

*0.101 DIMENSION H

*0.024 DIMENSION G

M [illegible] 2. ASSEMBLE TURBINE GROUP AND COMPONENTS TO DETERMINE SHIM REQUIREMENTS.

[illegible] LM 7227 3. ----- CONTINUOUS AIRWORTHINESS ITEM -----TURBINE TIESHAFT INSTALLATION - CHECK AND VERIFY STRETCH MEASUREMENT.

0.749 DIMENSION C (BEFORE STRETCH)

2.472 DIMENSION A

2.423 DIMENSION B

0.049 STRETCH DIMENSION (LIMIT = 0.047 TO 0.050 INCH)

0.825 DIMENSION C (AFTER STRETCH)

[illegible] L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

331 49-20-02 TURBINE GROUP INSTALLATION
REV. 02/13/03

NV518 61913 V2043.0
ENGINE NO. JOB NO.

STARTED OR ITEMS STARTED BUT NOT SIGNED OFF

M 4. VERIFY TURBINE GROUP SHIM THICKNESS.

3.714 DIMENSION J

-0.101 DIMENSION H (PREVIOUSLY RECORDED)

=3.613

-2.772 TOOLING DIMENSION

=0.841 BUILD DIMENSION (0.840 TO 0.843 INCH)

M6966 5. INSTALL TURBINE BEARING SUPPORT.

0.024 DIMENSION G (PREVIOUSLY RECORDED)
REQ'D. SHIMS (+ OR - 0.002 INCH)

.825 DIMENSION C (AFTER STRETCH)

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

ENGINE NO.	JOB NO.
NV518 61913	V2043.0

M 6956 6. DETERMINE SHIM REQUIRED FOR TURBINE BEARING SUPPORT.

4.753 DIMENSION K

- 3.599 DIMENSION L

= 1.154 DIMENSION M

****

2.297 INCH

- 1.154 DIMENSION M (ABOVE)

= 1.143

- 1.027 DIMENSION N (+ OR - 0.001 INCH)

= .116 THICKNESS OF REQ'D SHIMS

M 6956 7. ASSEMBLE COMPONENTS ONTO COUPLING.

NOTE - USE NEW T-BOLTS FOR ASSEMBLY OF BEARING CAPSULE.

M6956 8. INSTALL TURBINE BEARING SUPPORT.

.825 DIMENSION C (AFTER STRETCH)

L962 L VERIFY SHAFT STRETCH IS WITHIN LIMITS.

M 6956 9. INSTALL QUILLSHAFT AND TURBINE SCAVENGE PUMP.

M 6956 10. INSTALL HEATSHIELD.

L96[illegible] L ALL ITEMS ARE PROPERLY SIGNED OFF.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

M6956 11. INSTALL PRIMARY AND SECONDARY NOZZLE AND MANIFOLD ASSEMBLIES.

L982 L ----- CONTINUOUS AIRWORTHINESS ITEM -----CHECK BOLT AND "B" NUT TORQUE OF PRIMARY AND SECONDARY NOZZLE AND MANIFOLD ASSEMBLIES.

M6956 SAFETY PRIMARY AND SECONDARY NOZZLE ASSEMBLIES.

L983 L ----- CONTINUOUS AIRWORTHINESS ITEM -----CHECK SAFETY OF PRIMARY AND SECONDARY NOZZLE ASSEMBLIES.

M6956 12. INSTALL EXHAUST MUFFLER AND HOUSING.

M6956 13. INSTALL INSULATION BLANKETS.

M6956 14. INSTALL TADPOLE SEAL.

M6956 15. INSTALL EXCITER, IGNITOR PLUG AND THERMOCOUPLES.

M6956 16. INSTALL FLOW DIVIDER AND DRAIN VALVE.

551 GMS

END JOB V-2043.0 REVISED 02/13/03

L962 L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

GTCP331-200 COVER PAGE, TURBINE SCAVENGE PUMP ASSY
REV. 04/13/93

SV518	61913	V2005.0
ENGINE NO.	ENGINE NO.	JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

X460

~~1460~~

~~X460~~ X406

~~X460~~ 1977

~~X460~~ X460

NOTE - RIGHT SIGN-OFF COLUMN FOR JOB ISSUED.
LEFT SIGN-OFF COLUMN FOR JOB COMPLETED.

1. THE FOLLOWING JOBS ARE SIGNED OFF CORRECTLY OR ACCOUNTED FOR PROPERLY.
2. ALL ITEMS THAT ARE 'X'ED OUT ARE NOT REQD. THIS VISIT.
   V2050.0 TURBINE SCAVENGE PUMP - DISASSEMBLY
   V2021.0 TURBINE SCAVENGE PUMP - CLEANING
   V2055.0 TURBINE SCAVENGE PUMP - ASSEMBLY
   .....
   49-90-05/IS01 - TURBINE SCAVENGE PUMP INSPECTION
   .....
3. THE FOLLOWING NON-ROUTINE CARDS ARE SIGNED OFF CORRECTLY AND ACCOUNTED FOR. BLANK SPACES INDICATE NO NON-ROUTINES WERE ISSUED.

N/R #	SIGN OFF	N/R #	SIGN OFF	N/R #	SIGN OFF
.....	.....	.....	.....	.....	.....

*(SFOPB)COORDINATOR..... X460 DATE..Mar. 29, 2004.....

ASSIGNED TO ENGINE ORDER NUMBER..V528.....

W/C 551 EAH

END JOB V-2005.0 REVISED 04/13/93

UNITED

Job Instruction Card

331 49-23-49 TURBINE SCAVENGE PUMP - DISASSEMBLY
REV. 02/01/93

SV518	61913	V2050.0
ORDER NO.	ENGINE NO.	JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-24-01/SP01.

M 7068 1. DISASSEMBLE TURRBINE SCAVENGE PUMP TO THE EXTENT NECESSARY TO REPLACE WORN OR DAMAGED PARTS.

551 LAH

END JOB V-2050.0 REVISED 02/01/93

L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

GTCP331-200 TURBINE SCAVENGE PUMP ASSY - CLEANING
REV. 04/27/01

SV518 | 61913 | V2021.0
ENGINE NO. | JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

1R M/A L977

1. CHECK FOR FULL DISASSEMBLY OF TURBINE SCAVENGE PUMP AND STAMP OFF A OR B BELOW.

   U L977 A. TURBINE SCAVENGE PUMP IS FULLY DISASSEMBLED, PROCEED TO STEP 2.

   U ____ B. TURBINE SCAVENGE PUMP IS NOT FULLY DISASSEMBLED, PROCEED TO STEP 3.

2. *U ____ PUMP FULLY DISASSMBLED. UTILITY MECHANIC (U) *SOLVENT WASH TURBINE SCAVENGE PUMP AND PIECE PARTS PER *GN 4-0-3-20 PROCESS 01 (SOLVENT CLEAN), AND/OR *GN 4-0-3-20 PROCESS 2C. IF ADDITIONAL CLEANING IS *NECESSARY, ONLY THE HOUSING AND COVER MAY BE CLEANED *PER GN 4-03-20 PROCESS 2A, (ALKALINE RUST REMOVER).

3. U L977 PUMP ASSEMBLY. UTILITY MECHANIC (U) SOLVENT WASH TURBINE SCAVENGE PUMP ASSEMBLY PER GN 4-0-3-20 PROCESS 01 (SOLVENT CLEAN).

   CAUTION - DO NOT USE ALKALINE RUST REMOVER ON THE SCAVENGE PUMP ASSEMBLY. ALKALINE SOLUTION WILL DAMAGE THE OILITE BUSHING.

551 JAS

END JOB V-2021.0 REVISED 04/27/01

L977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

331 49-23-49 TURBINE SCAVENGE PUMP - ASSEMBLY
REV. 04/15/99

SV518 61913 V2055.0
ENGINE NO. JOB NO.

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-24-01/SP02.

M 6947 1.*ASSURE THAT PUMP HOUSING OIL PASSAGES ARE FREE OF *OBSTRUCTION BY INSERTING AN APPROPRIATE SIZE SAFETY *WIRE THROUGH THE HOLES.

M 6947 2. ASSEMBLE TURBINE SCAVENGE PUMP.

1977 L 3. CHECK FOR FREEDOM OF ROTATION OF SPUR GEAR AND ROTOR SET.

551 JAS

END JOB V-2055.0 REVISED 04/15/99

1977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

GTCP331-200 COVER PAGE, ACCY GEARCASE
REV. 05/08/02

AV518	61913	V3000.0
ENGINE NO.	ENGINE NO.	JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

X460
X460
X466 .. L962
X466 .. L977
X460 .. L977
X466 .. L977
X460 .. L977
X460
X460 .. X460
X460

NOTE - RIGHT SIGN-OFF COLUMN FOR JOB ISSUED.
LEFT SIGN-OFF COLUMN FOR JOB COMPLETED.

1. THE FOLLOWING JOBS ARE SIGNED OFF CORRECTLY OR ACCOUNTED FOR PROPERLY.
2. ALL ITEMS THAT ARE 'X'ED OUT ARE NOT REQD. THIS VISIT.
   V3010.0 ACCY GEARCASE - DISASSEMBLE.
   V3020.0 ACCY GEARCASE - CLEANING.
   V3040.0 ACCY GEARCASE - ASSEMBLE.
   V4010.0 GEN SCAV PUMP - DISASSEMBLY & CLEANING .
   V4040.0 GEN SCAV PUMP - ASSEMBLY. . . .
   . . . . . .
   *49-26-01/IS00 - ACCESSORY GEARCASE INSPECTION.
   . . . . . .
3. THE FOLLOWING NON-ROUTINE CARDS ARE SIGNED OFF CORRECTLY AND ACCOUNTED FOR. BLANK SPACES INDICATE NO NON-ROUTINES WERE ISSUED.

N/R #	SIGN OFF	N/R #	SIGN OFF	N/R #	SIGN OFF
.....	.....	.....	.....	.....	.....

(SFOPB)COORDINATOR. X460 DATE Mar. 24, 2004

ASSIGNED TO ENGINE ORDER NUMBER. V528

W/C 551 JAS

END JOB V-3000.0 REVISED 05/08/02

UNITED

Job Instruction Card

GTCP331-200 ACCY GEARCASE - DISASSEMBLY
REV. 01/09/98

AV518 61913 V3010.0
ENGINE NO. JOB NO

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

M 4897 1. REMOVE EXTERNAL PLUG FROM CENTER OF GEARBOX HOUSING ADJACENT TO THE GENERATOR PAD AND DISCARD *OLD* PART NUMBER PLUG (*WITHOUT* KEENSERT). DISCARD O-RING

M 4897 2. REMOVE DISCHARGE TUBE AND OIL JET FROM AROUND CLUTCH ENSURING REMOVAL OF CLAMP, RETAINED TUBE AND FASTENERS.

M 4897 3. REMOVE RETAINER FROM OIL PRESSURE SUPPLY TUBE TO CARRIER.

M 4897 4. REMOVE BEARING RETAINERS FROM PINION AND GENERATOR GEARS.

M 4897 5. REMOVE CARRIER ASSEMBLY FROM GEARBOX *HOUSING*.

M 4897 6. REMOVE *OIL TUBES* AND DISCARD O-RINGS.

M 4897 7. REMOVE COOLING FAN IDLER GEAR AND REMOVE BEARINGS WITH 294866-5 ADAPTER, 294870-2 PLATE AND 4020C PULLER.

NOTE - THIN GEAR (.250) PART NUMBER MAY BE DIACARDED WITH BEARINGS PRIOR TO DISASSEMBLY IF THE GEARBOX WAS ROUTED FOR REPLACEMENT OF THE IDLER GEAR.

L977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

DETAILS OF ITEMS STARTED BUT NOT SIGNED OFF

1 ESTL L 8. CIRCLE AND ACCOMPLISH A OR B BELOW:
2 WAS ENGINE REVIEWED FOR COOLING FAN IDLER GEAR
3 REPLACEMENT?
4
5 A. YES, CALL FOR EXPOSED AREA INSPECTION.
6
7 (B.) NO, CONTINUE DISASSEMBLY AT SIGN-OFF 10 AND
8 ROUTE DISASSEMBLED GEARBOX FOR CLEANING.
9
10 I 9. PERFORM EXPOSED AREA INSPECTION TO CHECK FOR PRESENCE
11 OF OIL JETS, CONDITION OF GEAR TRAIN AND WEAR IN IDLER
12 GEAR LINER. IF MODULE REQUIRES FURTHER DISASSEMBLY
13 BASED ON CONDITION, OFF-LOG MODULE AND RE-REVIEW.
14
15 NOTE - NO FURTHER DISASSEMBLY REQUIRED IF CONDITION
16 IS OK.
17
18 M 4297 10. REMOVE GENERATOR SCAVENGE PUMP DISCARD O-RINGS
19 AND SEAL.
20
21
22 M 4897 11. REMOVE ALL PLUGS AND FITTINGS FROM EXTERNAL OF
23 GEARBOX. DISCARD O-RINGS.
24
25 M 4897 12. REMOVE CAP AND ADAPTER ASSEMBLY, FILLER AND SIGHT
26 GLASS HOUSING, REFLECTOR, PLACARD AND WINDOW. DISCARD
27 O-RINGS.
28
29 M 4897 13. DISASSEMBLE JETS FROM CARRIER AND REMOVE REMAINING
30 BEARING RETAINERS. DISCARD O-RINGS.
31
32
33 PAGE 2
34
35

L977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

GTCP331-200 ACCY GEARCASE - DISASSEMBLY
REV. 01/09/98

ORDER NO. AV518 | ENGINE NO. 61913 | JOB NO. V3010.0

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

M 4897 14. REMOVE THE FOLLOWING GEARS AND BEARINGS. (USE TOOL CHART).

GEAR	ADAPTER	PLATE	PULLER
OIL PUMP DRIVE	294866-5	294867-3	4020C
GENERATOR IDLER	294866-1	294867-1	4020C
COMPOUND GEAR	294865-2	294865-2	4020C
GENERATOR DRIVE	294866-4/-6	294870-5	4020C
HIGH SPEED PINION	294866-3	294869-1	4020C

M 4897 15. REMOVE OIL TRANSFER TUBES, OIL JETS AND SCAVENGE TUBE. DISCARD O-RINGS.

551 GMS

END JOB V-3010.0 REVISED 01/09/98

L977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

GTCP331-200 ACCY GEARCASE - CLEANING
REV. 04/27/01

AV518	61913	V3020.0
ENGINE NO.		JOB NO

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

1. U 9312 UTILITY MECHANIC (U) CLEAN ACCESSORY GEARCASE PER GN 4-0-3-20 PROCESS 01 (SOLVENT CLEAN), AND/OR GN 4-0-3-20 PROCESS 2C.

551 JAS

END JOB V-3020.0 REVISED 04/27/01

L977
L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

331 49-26-01 ACCESSORY GEARBOX ASSEMBLY

REV. 09/04/97

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

AV518 61913 V3040.0

ENGINE NO. JOB NO

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-26-01.
ASSIGNED TO ENGINE ORDER NUMBER V528

M 4897 1. PREASSEMBLE GEARBOX HOUSING.

M 4897 2. ASSEMBLE BEARINGS ON GEARS.

L977 LM 4897 3. INSTALL GEARS.

L977 LM 4897 4. INSTALL CARRIER.

M 4897 5. INSTALL BEARING RETAINERS.

M 4897 6.*ASSEMBLE AND INSTALL GENERATOR SCAVENGE PUMP.
*

M 4897 7.*CIRCLE AND ACCOMPLISH A OR B BELOW.
*
*WAS ENGINE REVIEWED FOR COOLING FAN IDLER GEAR
*REPLACEMENT?

A. YES, NO FURTHER SIGNOFF REQUIRED.

NOTE - STEPS 1 THROUGH 6 ABOVE REPRESENT ONLY PARTIAL ASSEMBLY OF THE EXPOSED PARTS TO ACCOMPLISH THE COOLING FAN IDLER GEAR CHANGE.

B. NO, CONTINUE WITH ASSEMBLY STEPS.

M 4897 8.*ASSEMBLE AND INSTALL GENERATOR SCAVENGE PUMP.

M 4897 9. INSTALL EXTERNAL PARTS.

L977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

331 49-26-01 ACCESSORY GEARBOX ASSEMBLY
REV: 09/04/97

AV518 | 61913 | V3040.0
ENGINE NO. | JOB NO

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

L977 L 10. FINAL LEAD CHECK.

551 GMS

END JOB V-3040.0 REVISED 09/04/97

L977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

GTCP331-200 GEN SCAV PUMP - DISASSEMBLY AND CLEAN
REV. 11/09/00

AV518	61913	V4010.0
ENGINE MODEL	ENGINE NO.	JOB NO.

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

M 4897 1. DISASSEMBLE GENERATOR SCAVENGE PUMP.
A. DISCARD "HIGH TORQUE" FASTENERS.

2. U U012 UTILITY MECHANIC (U) CLEAN GENERATOR SCAVENGE PUMP PER GN 4-0-3-20 PROCESS 01. (SOLVENT CLEAN)

551 JAS

END JOB V-4010.0 REVISED 11/09/00

PAGE 1

1977
L ALL ITEMS ARE PROPERLY SIGNED OFF.

UNITED

Job Instruction Card

GTCP331-200 GEN SCAVENGE PUMP - ASSEMBLY
REV. 10/20/97

AV518 | 61913 | V4040.0
MODEL NO. | ENGINE NO. | JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 60-49-26-01/SP.

M 4897 1. INSTALL SEAL INTO HOUSING ASSEMBLY.

M 4897 2. INSTALL SPUR GEARSHAFT ASSEMBLIES IN HOUSING ASSEMBLY.

M 4897 3. INSTALL COVER, HOUSING ASSEMBLY AND SECURE WITH SCREWS. TORQUE SCREWS TO 30 INCH-POUNDS.

M 4897 4. INSTALL SPUR GEAR ON SPUR GEARSHAFT AND SECURE WITH WASHER AND NUT. TORQUE NUT TOO 190 INCH-POUNDS.

551 GHS

END JOB V-4040.0 REVISED 10/20/97

4977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

GTCP331-200 COVER PAGE, OIL PUMP
REV. 04/12/93

PV528 62697 V5000.0
PART NO. ENGINE NO. JOB NO.

DETAILS OF ITEMS STARTED BUT NOT SIGNED OFF

NOTE - RIGHT SIGN-OFF COLUMN FOR JOB ISSUED.
LEFT SIGN-OFF COLUMN FOR JOB COMPLETED.

X460

1. THE FOLLOWING JOBS ARE SIGNED OFF CORRECTLY OR ACCOUNTED FOR PROPERLY.
2. ALL ITEMS THAT ARE 'X'ED OUT ARE NOT REQD. THIS VISIT.
   V5010.0 OIL PUMP - DISASSEMBLE.
   V5020.0 OIL PUMP - CLEANING.
   V5040.0 OIL PUMP - ASSEMBLED.
   .....
   49-90-01/IS01 - OIL PUMP INSPECTION.
   .....
3. THE FOLLOWING NON-ROUTINE CARDS ARE SIGNED OFF CORRECTLY AND ACCOUNTED FOR. BLANK SPACES INDICATE NO NON-ROUTINES WERE ISSUED.

N/R #	SIGN OFF	N/R #	SIGN OFF	N/R #	SIGN OFF
.....	.....	.....	.....	.....	.....

*(SFOPB)COORDINATOR..... X460 DATE..Apr. 14, 2004.....

ASSIGNED TO ENGINE ORDER NUMBER..V528...

W/C 551 EAH

END JOB V-5000.0 REVISED 04/12/93

UNITED

Job Instruction Card

GTCP331-200 COVER PAGE, LOAD COMPRESSOR
REV. 05/08/02

FV518	61913	V6000.0
ENGINE CO.	ENGINE NO.	JOB NO.

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

X460

X460

X466 .. X463

X46[illegible] .. X463

X460 .. [illegible]

X460 .. X460

NOTE - RIGHT SIGN-OFF COLUMN FOR JOB ISSUED.
LEFT SIGN-OFF COLUMN FOR JOB COMPLETED.

1. THE FOLLOWING JOBS ARE SIGNED OFF CORRECTLY OR ACCOUNTED FOR PROPERLY.
2. ALL ITEMS THAT ARE 'X'ED OUT ARE NOT REQD. THIS VISIT.
   V6010.0 DRIVEN COMPRESSOR - DISASSEMBLE.
   V6020.0 DRIVEN COMPRESSOR - CLEANING.
   V6040.0 DRIVEN COMPRESSOR - ASSEMBLE.
   .....
   *49-25-00/IS00 - DRIVEN COMPRESSOR INSPECTION.
   .....
3. THE FOLLOWING NON-ROUTINE CARDS ARE SIGNED OFF CORRECTLY AND ACCOUNTED FOR. BLANK SPACES INDICATE NO NON-ROUTINES WERE ISSUED.

N/R #	SIGN OFF	N/R #	SIGN OFF	N/R #	SIGN OFF
.....	.....	.....	.....	.....	.....

(SFOPB)COORDINATOR. X460 DATE Apr. 14 2004

ASSIGNED TO ENGINE ORDER NUMBER. V528

W/C 551 EAH

END JOB V-6000.0 REVISED 05/08/02

PAGE 1

X460 X460

V6101.0 IMPELLER-LOAD COMPRESSOR

UNITED

Job Instruction Card

GTCP331-200 DRIVEN COMPRESSOR - DISASSEMBLE
REV. 04/02/93

ENGINE NO.	JOB NO.
FV518 61913	V6010.0

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331
SHOP PROCEDURE 49-25-01/SP02.

M 6947 1. REMOVE DRIVEN COMPRESSOR COMPONENTS.
M 6947 2. REMOVE IGV ACTUATOR.
M 6947 3. REMOVE IGV MOUNT AND BELLCRANK.
M 6947 4. REMOVE INLET HOUSING AND IGV ASSEMBLY.
M 6947 5. REMOVE INLET BEARING HOUSING ASSEMBLY.
M 6947 6. REMOVE BACKSHROUD.
M 6947 7. REMOVE SEAL CARRIER.
M 6947 8. DISASSEMBLE ROTATING GROUP.

W/C 551 EAH

END JOB V-6010.0 REVISED 04/02/93

L977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

GTCP331-200 DRIVEN COMPRESSOR - CLEANING
REV. 04/27/01

ORDER NO.	ENGINE NO.	JOB NO.
FV518	61913	V6020.0

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

1. *U_____ UTILITY MECHANIC (U) CLEAN LOAD COMPRESSOR
*PARTS PER GN 4-0-3-20 PROCESS 01 (SOLVENT CLEAN),
*AND/OR GN 4-0-3-20 PROCESS 2C.

NOTE - DO NOT CLEAN IGV ASSEMBLY. NO CLEANING PERMITTED UNLESS DISASSEMBLED.

551 JAS

END JOB V-6020.0 REVISED 04/27/01

L977

_____L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

GTCP331-200 DRIVEN COMPRESSOR - ASSEMBLY
REV. 10/31/02

FV518 61913 V6040.0
ORDER NO. ENGINE NO. JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-25-01.
ASSIGNED TO ENGINE ORDER NUMBER V528

M 6947 1. ZERO FACE TIP CLEARANCE CHECK AND ASSEMBLE ROTATING GROUP.

.012 RECORD TIP CLEARANCE

M 6947 2. STRETCH SHAFT.

.252 DIMENSION A

- .240 DIMENSION B

= .012 SHAFT STRECH (0.011 - 0.012)

L977 L ----- CONTINUOUS AIRWORTHINESS ITEM -----LOAD COMPRESSER TIESHAFT INSTALLATION - CHECK AND VERIFY STRETCH HEASUREMENT.

M 6947 3. CHECK ROTATING GROUP RUNOUT.
RECORD COMPRESSOR ROTOR TIP RUNOUT.

RUNOUT .001 (0.003 INCH MAX)

M 6947 4. INSTALL SEAL IN INLET HOUSING.

M 6947 5. ASSEMBLE BEARING AND INLET BEARING HOUSING. MARK WHICH BEARING INSTALLED.

X A. CONFIGURATION "A" TIMKEN BEARING.

M 6947 6. INSTALL IGV CONTROL ROD.

M 6947 7. INSTALL IGV TO SCROLL HOUSING AND INLET HOUSING.

M 6947 8. INSTALL IGV MOUNT AND BELLCRANK.

M 6947 9. INSTALL IGV ACTUATOR AND COMPONENTS

M 6947 10. ADJUST INLET GUIDE VANES.

L977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

GTCP331-200 DRIVEN COMPRESSOR - ASSEMBLY
REV. 10/31/02

FV518 61913 V6040.0
ENGINE S/N. JOB NO.

STEPS OF WORK STARTED BUT NOT SIGNED OFF

1	97? L	----- CONTINUOUS AIRWORTHINESS ITEM -----IGV SYSTEM
2		INSTALLATION - CHECK RIGGING OF LOAD COMPRESSOR IGV'S,
3		IGV ASSEMBLY, AND IGV ACTUATOR FOR ITEMS 6-10.
4		DUPLICATE SIGN-OFF ON JOB V1040.0
5	LM 11.	DETERMINE SHIM THICKNESS REQUIREMENTS BETWEEN
6		COMPRESSOR ROTOR AND SCROLL HOUSING.
7		
8		.012 DIMENSION A
9		
10		0.100 TRIAL SHIM THICKNESS
11		
12		+ .021 DIMENSION B (0.033 - DIM. A = DIM. B)
13		
14		= .121
15		
16		+1.388 DIMENSION 3A
17		
18		=1.509
19		
20		-1.462 DIMENSION 3B
21		
22		= .047 REQUIRED SHIM THICKNESS
23		
24	M 70 12.	INSTALL ROTATING GROUP.
25		VERIFY AND RECORD TIP CLEARANCE (0.033 +/- .001):
26		.033 RECORD TIP CLEARANCE
27		
28	97? LM 6947 13.	*RECORD AVG EFFECTIVE AREA PRINTED ON PART N/A .
29		*(LIMIT 0.2407-0.2499)
30		
31		
32		
33		
34		
35		

97? L ALL ITEMS ARE PROPERLY SIGNED OFF.

GTCP331-200 DRIVEN COMPRESSOR - ASSEMBLY
REV. 10/31/02

FV518	61913	V6040.0
ENGINE NO.		JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

M 6947 14. DETERMINE DIFFUSER SPACING SHIM REQUIREMENTS.

1.324 DIMENSION 4C

- 1.288 DIMENSION 4D

= .036 REQUIRED SHIM THICKNESS (+/- 0.001)

M 6947 15. DETERMINE CLEARANCE BETWEEN BEARING CARRIER AND BACKSHROUD.

.908 DIMENSION 5A

- .211 DIMENSION 5B

= .697

- 0.640 INCH

= .057 REQUIRED SHIM THICKNESS (+/- 0.005)

M 6947 16. ASSEMBLE DRIVEN COMPRESSOR. (SEE FIGURE 716)
M 6947 17. ASSEMBLE DRIVEN COMPRESSOR. (SEE FIGURE 717)
M 6947 18. ASSEMBLE DRIVEN COMPRESSOR. (SEE FIGURE 718)
M 6947 19. INSTALL INLET TEMPERATURE SENSOR (CIT PROBE).

W/C 551 GMS

END JOB V-6040.0 REVISED 10/31/02

L ALL ITEMS ARE PROPERLY SIGNED OFF.

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

7227
item 2 no Blending Required

L977 J.C. Stokes 84444

GTCP331 Job Instruction Card
REV. 04/12/95 IMPELLER - LOAD COMPRESSOR

EV518 | 01913 | V6101.0
ORDER NO | ENGINE NO. | JOB NO

M 7227 1. BALANCE PER SHOP PROCEDURE 49-25-19/SP01. DATE 4-5-04

FINAL UNBALANCE - GRAMS OR OZ-INCH | ANGLE

H PLANE - 3.11 moz | 215°

J PLANE - 882. moz | 164°

NOTE - LIST P/N AND S/N BELOW.

IMPELLER P/N 3822060-3

7227
IMPELLER S/N 150U732

M X 2. BLEND PER SHOP PROCEDURE 49-25-19/SP01.

L 3. LEAD VERIFY BLENDING PER 49-25-19/SP01.

L 4. LEAD FINAL CHECK.

NOTE - PUT THIS BALANCE JIC WITH PART IN CONTAINER AFTER COMPLETION. THIS JIC MUST BE ACCOUNTED FOR AND TURNED IN TO PRODUCTION CONTROL CENTER WHEN PART IS USED FOR BUILD.

NOTE - THIS JIC MUST BE ACCOUNTED FOR AND TURNED IN TO PRODUCTION CONTROL CENTER WHEN PART IS ON-LOGGED.

551 EAH

END JOB V-6101.0 REVISED 04/12/95

L ALL ITEMS ARE PROPERLY SIGNED OFF.

Inde balancing

plane 1	plane 2
882.	3.11
164	215
in tol	in tol

Job Instruction Card

GTCP331-200 COVER PAGE, IGV ASSEMBLY
REV. 05/08/02

IV966 | 61692 | V6005.0
ORDER NO. ENGINE NO. JOB NO.

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

X460

X460

X460

NOTE - RIGHT SIGN-OFF COLUMN FOR JOB ISSUED.
LEFT SIGN-OFF COLUMN FOR JOB COMPLETED.

1. THE FOLLOWING JOBS ARE SIGNED OFF CORRECTLY OR ACCOUNTED FOR PROPERLY.
2. ALL ITEMS THAT ARE 'X'ED OUT ARE NOT REQD. THIS VISIT.
   V6015.0 IGV ASSEMBLY - DISASSEMBLE
   V6025.0 IGV ASSEMBLY - CLEANING
   V6045.0 IGV ASSEMBLY - ASSEMBLE
   .....
   *49-25-02/IS00 - IGV ASSEMBLY INSPECTION.
   .....
3. THE FOLLOWING NON-ROUTINE CARDS ARE SIGNED OFF CORRECTLY AND ACCOUNTED FOR. BLANK SPACES INDICATE NO NON-ROUTINES WERE ISSUED.

N/R #	SIGN OFF	N/R #	SIGN OFF	N/R #	SIGN OFF
.....	.....	.....	.....	.....	.....

(SFOPB)COORDINATOR..X460.. DATE..Apr. 14, 2004..

ASSIGNED TO ENGINE ORDER NUMBER..1528....

W/C 551 JAS

END JOB V-6005.0 REVISED 05/08/02

UNITED

Job Instruction Card

GTCP331-200 COVER PAGE, STARTER CLUTCH ASSEMBLY
REV. 02/18/04

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

LV507 (ENGINE NO.) 60189 (ENGINE NO.) V7000.0 (JOB NO.)

NOTE - RIGHT SIGN-OFF COLUMN FOR JOB ISSUED.
LEFT SIGN-OFF COLUMN FOR JOB COMPLETED.

1. THE FOLLOWING JOBS ARE SIGNED OFF CORRECTLY OR ACCOUNTED FOR PROPERLY.
2. ALL ITEMS THAT ARE 'X'ED OUT ARE NOT REQD. THIS VISIT.
   V7010.0 STARTER CLUTCH - DISASSEMBLY/CLEANING
   V7040.0 STARTER CLUTCH - ASSEMBLY.

*60-49-26-01-00/ICS LRU CLUTCH INSPECTION

3. THE FOLLOWING NON-ROUTINE CARDS ARE SIGNED OFF CORRECTLY AND ACCOUNTED FOR. BLANK SPACES INDICATE NO NON-ROUTINES WERE ISSUED.

N/R #	SIGN OFF	N/R #	SIGN OFF	N/R #	SIGN OFF

(SFOPB)COORDINATOR. X460 DATE. Feb. 25, 2004

ASSIGNED TO ENGINE ORDER NUMBER. V528

W/C 551 JAS

END JOB V-7000.0 REVISED 02/18/04

UNITED

Job Instruction Card

GTCP331-200 STARTER CLUTCH - DISASSEMBLY/CLEANING

REV. 05/06/96

LV507 | 60189 | V7010.0

ORDER NO. | ENGINE NO. | JOB NO.

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

M 4897 1. REMOVE LRU CLUTCH ADAPTER TOOL.

M 4897 2. REMOVE ASSEMBLED STARTER GEAR FROM ADAPTER.

M 4897 3. REMOVE WASHERS AND WAVE SPRINGS FROM ADAPTER.

M 4897 4. REMOVE RETAINING RING AND WASHERS FROM ASSEMBLED STARTER GEAR. REMOVE SPLINE SHAFT AND PLUG.

M 4897 5. REMOVE BEARINGS FROM SPLINE SHAFT AND STARTER GEAR.

M 4897 6. DISCARD ALL BEARINGS EXCEPT P/N 3860160-1. BAG REMAINING BEARING FOR RECOVERY.

7.*U U012, UTILITY MECHANIC (U) CLEAN DISASSEMBLED PARTS PER GN 4-0-3-20 PROCESS 01. (SOLVENT CLEAN)

M 4897 8. ROUTE PARTS TO INSPECTION.

W/C 551 SRB

END JOB V-7010.0 REVISED 05/06/96

L302 L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

GTCP331-200 STARTER CLUTCH - ASSEMBLY
REV. 09/27/93

LV507 | 60189 | V7040.0
ORDER NO. | ENGINE NO. | JOB NO.

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

NOTE - ACCOMPLISH ALL ITEMS IN ACCORDANCE WITH GTCP331 SHOP PROCEDURE 49-27-01/SP01.

*ASSIGNED TO ENGINE ORDER NUMBER 1528

M 1. ASSEMBLE STARTER GEAR ASSEMBLY.

2.9850 - A2 (REFERENCE DIMENSION)
-2.361 - A3
= .624 - (SUBTOTAL)
- 0.6180 - A1 (REFERENCE DIMENSION)
= .006 - (SUBTOTAL)
+ .208 - B
= .214 - (SUBTOTAL)
- 0.0780 - (SPRING HEIGHT)
= .136 - (SUBTOTAL)
- 0.1000 - (NOMINAL)
= .036 - SHIM THICKNESS REQUIRED.
.035 - ACTUAL SHIMS USED, + OR - 0.001 INCH.

L977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

GTCP331-200 STARTER CLUTCH - ASSEMBLY
REV. 09/27/93

LV507 (CREDIT NO.) 60189 (ENGINE NO.) V7040,0 (JOB NO.)

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

M7194 2. INSTALL SPLINE SHAFT AND STARTER CLUTCH.

.263 - 1A

- .131 - 1B

= .132 - (SUBTOTAL)

- .062 - 1C

= .07 - (SUBTOTAL)

- 0.0455

= .0245 - SHIM THICKNESS REQUIRED.

.024 - ACTUAL SHIMS USED, + OR - 0.0025 INCH.

M7194 3. PACKAGE LRU CLUTCH ASSEMBLY.

W/C 551 EAH

END JOB V-7040.0 REVISED 09/27/93

L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

GTCP331-200 COVER PAGE ENGINE - BALANCE

REV. 04/01/96

ORDER NO	ENGINE NO.	JOB NO
NV518	61913	V8000.0

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

NOTE - LEFT SIGN-OFF COLUMN FOR JOB COMPLETED.

1. THE FOLLOWING JOBS ARE SIGNED OFF CORRECTLY OR ACCOUNTED FOR PROPERLY.
2. ALL ITEMS THAT ARE 'X'ED OUT ARE NOT REQD. THIS VISIT.

X460	V2101.0 IMPELLER - 1ST STAGE COMPRESSOR.
X460	V2102.0 IMPELLER - 2ND STAGE COMPRESSOR.
X460	V2103.0 WHEEL ASSEMBLY-1ST STAGE TURBINE.
X460	V2104.0 WHEEL ASSEMBLY-2ND STAGE TURBINE.
X460	V2105.0 WHEEL ASSEMBLY-3RD STGE TURBINE.
	V2106.0 CURVIC COUPLING
	V3101.0 GEAR - MATCHED SET - SPUR.
X460	*V3102.0 ROTOR-COOLING FAN
	V6101.0 IMPELLER - LOAD COMPRESSOR
	.....
	.....

3. THE FOLLOWING NON-ROUTINE CARDS ARE SIGNED OFF CORRECTLY AND ACCOUNTED FOR. BLANK SPACES INDICATE NO NON-ROUTINES WERE ISSUED.

N/R #	SIGN OFF	N/R #	SIGN OFF	N/R #	SIGN OFF
.....	.....	.....	.....	.....	.....

(SFOPB)COORDINATOR..X460.. DATE Apr. 14, 2004

ASSIGNED TO ENGINE ORDER NUMBER. V528....

W/C 551 SRB

END JOB V-8000.0 REVISED 04/01/96

UNITED

Job Instruction Card

GTCP331 IMPELLER - 2ND STAGE COMPRESSOR
REV. 02/01/01

ORDER NO.	ENGINE NO.	JOB NO.
NV518	101913	V2102.0

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

M 7227 1. BALANCE PER SHOP PROCEDURE 49-22-13/SP01.

DATE 3-7-04

FINAL UNBALANCE - GRAMS OR OZ-INCH — ANGLE

* J PLANE - .11 max oz — 164°

* H PLANE - 5.12 max oz — 30°

NOTE - LIST P/N AND S/N BELOW.

2ND STAGE IMPELLER P/N 3822068-1

2ND STAGE IMPELLER S/N 05013267

L977 M 7227 2. BLEND PER SHOP PROCEDURE 49-22-13/SP01.

L 3. LEAD VERIFY BLENDING PER 49-22-13/SP01.

L 4. LEAD FINAL CHECK.

NOTE - PUT THIS BALANCE JIC WITH PART IN CONTAINER AFTER COMPLETION. THIS JIC MUST BE ACCOUNTED FOR AND TURNED IN TO PRODUCTION CONTROL CENTER WHEN PART IS ON-LOGGED.

EDITED NUMBER 1 TMA/6014L JAS/02-01-01
551 JAS

END JOB V-2102.0 REVISED 02/01/01

L ALL ITEMS ARE PROPERLY SIGNED OFF.

index balancing

plane 1	plane 2
5.12	4.11
30	164
in tol	in tol

Job Instruction Card

GTCP331 WHEEL ASSEMBLY-1ST STAGE TURBINE
REV. 12/07/95

NV518 | 601963 | V2103.0
ORDER NO. ENGINE NO. JOB NO.

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

7227
Item 4 no Blending Required

M 7227 1. INSTALL BLADES AND TABLOCKS PER SHOP PROCEDURE 49-24-03/SP00.

M [illegible] 2.*BALANCE PER SHOP PROCEDURE 49-24-03/SP01. DATE 4-6-04

FINAL UNBALANCE - GRAMS OR OZ-INCH ANGLE

A PLANE - 13.7 oz 273°

NOTE - LIST P/N AND S/N BELOW.

1ST STAGE DISK P/N 3840019-1

1ST STAGE DISK S/N 0235703173

BLADE SET P/N None

L 3. ----- CONTINUOUS AIRWORTHINESS ITEM -----T1 TURBINE BLADE INSTALLATION - CHECK TABLOCK INSTALLATION PER SHOP PROCEDURE 49-24-03/SP00.

M X 4.*BLEND PER SHOP PROCEDURE 49-24-03/SP01.

L 5. LEAD VERIFY BLENDING OF DISK PER 49-24-03/SP01.

L 6. LEAD FINAL CHECK.

NOTE - PUT THIS BALANCE JIC WITH PART IN CONTAINER AFTER COMPLETION. THIS JIC MUST BE ACCOUNTED FOR AND TURNED IN TO PRODUCTION CONTROL CENTER WHEN PART IS ON-LOGGED.

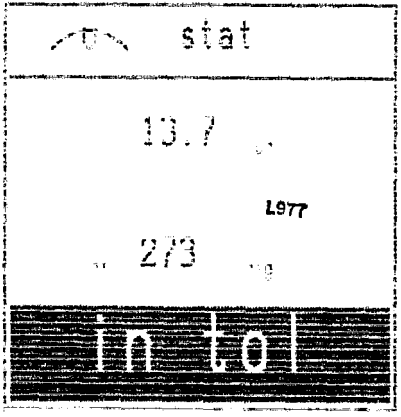
551 SRB

END JOB V-2103.0 REVISED 12/07/95

L ALL ITEMS ARE PROPERLY SIGNED OFF.

UNITED

Index balancing



Job Instruction Card

GTCP331 WHEEL ASSEMBLY-2ND STAGE TURBINE
REV. 12/07/95

NV518 | 61913 | V2104.0
ORDER NO. ENGINE NO. JOB NO.

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

H 7227 1. INSTALL BLADES AND TABLOCKS PER SHOP PROCEDURE 49-24-03/SP00.

H 7227 2.*BALANCE PER SHOP PROCEDURE 49-24-07/SP01.

DATE 3/16/04

FINAL UNBALANCE - GRAMS OR OZ-INCH ANGLE

A PLANE - 8.04 +0Z 222°

NOTE - LIST P/N AND S/N BELOW.

2ND STAGE DISK P/N 3840072/

2ND STAGE DISK S/N 0050 00946

BLADE SET P/N CRMP

L 3. ----- CONTINUOUS AIRWORTHINESS ITEM -----T2 TURBINE BLADE INSTALLATION - CHECK TABLOCK INSTALLATION PER SHOP PROCEDURE 49-24-03/SP00.

7227
Item 4 to Blending Required

H 4.*BLEND PER SHOP PROCEDURE 49-24-07/SP01.

L 5. LEAD VERIFY BLENDING OF DISK PER 49-24-07/SP01.

L 6. LEAD FINAL CHECK.

NOTE - PUT THIS BALANCE JIC WITH PART IN CONTAINER AFTER COMPLETION. THIS JIC MUST BE ACCOUNTED FOR AND TURNED IN TO PRODUCTION CONTROL CENTER WHEN PART IS ON-LOGGED.

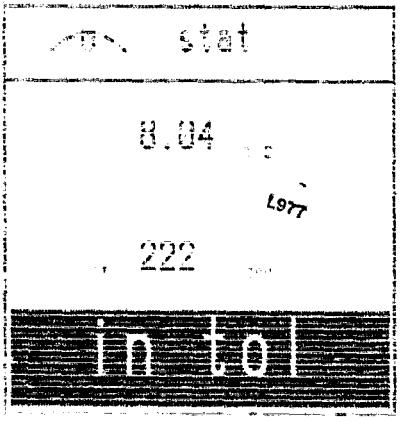
551 SRB

END JOB V-2104.0 REVISED 12/07/95

L ALL ITEMS ARE PROPERLY SIGNED OFF.

UNITED

Index balancing



Job Instruction Card

GTCP331 WHEEL ASSEMBLY-3RD STAGE TURBINE
REV. 05/23/94

ORDER NO.	ENGINE NO.	JOB NO.
NV518	61983	V2105.0

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

M 7227 1. BALANCE PER SHOP PROCEDURE 49-24-09/SP01.

DATE 3-28-04

FINAL UNBALANCE - GRAMS OR OZ-INCH ANGLE

A PLANE - 7.46 max 87°

NOTE - LIST P/N AND S/N BELOW.

3RD STAGE DISK P/N 3840022-3

3RD STAGE DISK S/N 1345 7043

BLADE SET P/N NONE

M 7227 2. BLEND PER SHOP PROCEDURE 49-24-09/SP01.

L 3. LEAD VERIFY BLENDING PER 49-24-09/SP01.

L 4. LEAD FINAL CHECK.

NOTE - PUT THIS BALANCE JIC WITH PART IN CONTAINER AFTER COMPLETION. THIS JIC MUST BE ACCOUNTED FOR AND TURNED IN TO PRODUCTION CONTROL CENTER WHEN PART IS ON-LOGGED.

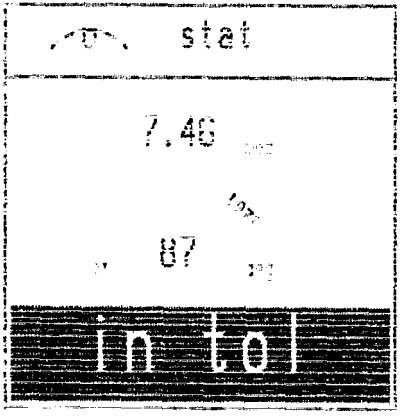
551 EAH

END JOB V-2105.0 REVISED 05/23/94

L ALL ITEMS ARE PROPERLY SIGNED OFF.

UNITED

index balancing



UNITED AIRLINES - MASTER ICS/BOM

Effectivity 331-200ER APU Engine Manual - Inspection and Condition Sheet
"V" EXTERNALS ALL PARTS CONTAINED WITHIN ARE NON HAZMAT
60-49-10-01-02 ICS

Origination Date 3/23/2004

EON V528 ESN 62697 VADE # CUSTOMER UAL

DISPOSITION CODES:

E =	PART MEETS DETAIL PART EID REQUIREMENTS (ZERO TIME SINCE DETAIL PART INSPECTION)
A =	EXPOSED AREA OF PART MEETS VISUAL REQUIREMENTS OF APPROPRIATE EID (CONTINUED TIME SINCE DETAIL PARTS INSPECTION)
C =	PART ROUTED OR CORRECTIVE ACTION TAKEN
ATA# ____ = S/L - SEQ	EID NUMBER [49 precedes numbers shown (49) 31-XX] SECTION / LIST - SEQUENCE NUMBER
EPM ____ = FUNC #	STAMP TO INDICATE PART OFF-LOG FROM MODULE FUNCTION NUMBER

INSPECTION NOTES:
(STAMP OFF APPROPRIATE DISPOSITION CODE. MORE THAN ONE CODE MAY BE STAMPED.)
(INDICATE CONDITION OF UNSERVICEABLE PARTS REGARDLESS OF CONDITION.)
(TO CLEAR PARTS NOT EXPOSED DRAW A LINE THROUGH THE COMPLETE ENTRY AND STAMP IN LEFT MARGIN.)
(IF PART IS ROUTED ON AN R & R TAG IT IS MANDATORY TO STAMP THE APPLICABLE "E" "A" OR "C" BLOCK AND WRITE R & R IN THE "C" BLOCK THEN COMPLETE THE APPROPRIATE COMPUTER TRANSACTION.)
(ALL PARTS NEEDING REPAIR WILL HAVE AN IDENTIFICATION TAG WITH PART NUMBER, SERIAL NUMBER (IF APPLICABLE) AND THE QUANTITY, ATTACHED TO THE PART.)
(PARTS THAT DO NOT HAVE SPECIFIC EID'S WRITTEN FOR THEM MUST BE VISUALLY INSPECTED FOR GENERAL CONDITION PER 331-500 BOOK "0" 20-49-00-00, INTRODUCTION, SECTION 4, PARA A, STATEMENT 4.

MODULE INSPECTION GUIDE

(1) Module seperated from adjoining modules, inspected and found serviceable per EID 60-49-21-00-00 [ZERO (TSMI) No parts removed from module. No additional sign-off required.

(2) Module partially or completely disassembled. Removed parts and / or exposed areas inspected per appropriate EID (ZERO TSDPI).

Control Date: 20040126

(V) module I & C Sheet page 2 OF 11 **Revision Date** 4/5/2004 **Name** [redacted]

APU S/N	62697	TSLV	7556	EON	V528	CAZ SHIP TO DATE	CAZ RET DATE
Total Time	7556	CSLV	8029	P.O.	S306948		
Total Cycles	8029			Date Rcvd.	03/17/04		

Inspection Use Only										Stores			
E	A	C	OFF-LOG FUNC #	COND/ROUTING	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
		1474A	EPM N	DIS	MODULE POWER SECTION	3801003-8	265-9102	20-00-00 20-000	1	1			
		1474A	EPM F	DIS	MODULE - DRIVEN COMPRESSOR	380400-11	265-9103	25-00-00 18-000	1	1			
			EPM A	DIS	MODULE GEARBOX	3862180-21 - 400u	265-9104	26-01-00 01-000	1	1			
			EPM C 5650	Leaks	ASSEMBLY COOLING FAN	3616959 - 6 - 600u	265-9105	52-01-00 03-000	1	1	1		
		1474A	S 5778	DIS	ASSEMBLY - PUMP TURB SCAVENGE	3880160-3	265-0142	90-05-01 55-010	1	1			
		1474A	L	DIS	ASSEMBLY - LRU CLUTCH	3612844-1	265-3153	26-07-00 05-010	1	1			
			EPM I 988	DIS	ASSEMBLY - IGV	3810231-21	265-3012	25-02-00 25-000	1	1			
			P 5724	DIS	ASSEMBLY LUBE OIL PUMP	3880190-10	265-3173	90-01-01 41-000	1	1			
					BRACKETS			10-01-00 331 IPC					
					TUBING			10-01-00 331 IPC					
					HOSES			10-01-00 331 IPC					
					GENERATOR	MR24213	661-9000	10-01-00 331 IPC	1				

APU S/N	62697	EON	V528
		P.O.	S306948

CAZ SHIP TO DATE | CAZ RET DATE

Inspection Use Only					Hardware Info					Stores			
E	A	C	OFF-LOG FUNC #	COND/ROUTING	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
			5749		CLAMP	BACC10GY 400	651-1454	10-00-02 50-070	1				
			5749		CLAMP	E38C37	642-1233	10-00-02 50-070	1				
			5749		CLAMP	234-517 -9006	N/S	10-00-02 50-070	1				
			5777		CLAMP	234-517 -9059	N/S	10-00-02 50-590	1				
			5775		CLAMP	234-517 -9500	285-0440	10-00-02 50-070	1				
			5775		CLAMP	24540-500	285-0440	10-00-02 50-070	1				
			5776		CLAMP	34J34-3 -0346-1	265-0343	10-00-02 50-580	1				
			5776		CLAMP	234-517 -9101	265-0343	10-00-02 50-580	1				
			2280		PLENUM LWR	3810214-5	265-0588	21-01-00 10-275	1				
			2279		PLENUM UPPR	3810213-8	265-0587	21-02-00 10-270	1				
			5737		SCREEN INLET	3615139-1	265-3361	21-03-00	2				
			2241	DO NOT PROCURE NEW. REPLACE WITH 265-3361	SCREEN UPPER	3810198-5	265-0586	21-03-00	1				
			5660	DO NOT PROCURE NEW. REPLACE WITH 265-3361	SCREEN LOWER	3810198-3	265-3095	21-03-00	1				
			5758		COVER MONPOLE	3876061-1	265-0614	21-04-00 50-260	2				
			5753		COVER MONPOLE	3876063-1	265-0596	21-04-00 50-140	2				
			5761		COVER ASSY	3810216-2	N/S	21-06-00 50-300	1				

APU S/N	62697	EON	V528
		P.O.	S306948

CAZ SHIP TO DATE | CAZ RET DATE

Inspection Use Only					Hardware Info					Stores			
E	A	C	OFF-LOG FUNC #	COND/ROUTING	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
1474A			5683		SHAFT QUILL	3868000-1	265-0290	26-22-00 18-105	1				
			5683		SHAFT QUILL	3868001-1	265-0507	26-22-00 11-200	1				
			2235		ADAPTER	3862284-6	265-3079	27-03-00 50-010	1				
			14501		TUBE OIL COOLER LONG	1F17107-1	265-0526	27-11-00 50-610	1				
1474A			14502		TUBE OIL COOLER SHORT	1F17108-1	265-0527	27-11-00 50-620	1				
			2266		BRACKET OIL COOLER	3880393-3	265-3165	52-15-00 01-310	1				
			2238		DUCT TEE	3884238-2	265-0610	53-00-01 50-030	1				
1474A			5748		DUCT SURGE	3884391-2	265-0668	53-00-01 50-060	1				
1474A			2249		DUCT ELBOW	3884211-1	265-0327	53-00-01 50-040	1				

NON EID PARTS BILL OF MATERIAL PARTS ONLY

331-200ER "V" MODULE

EFF 331-200ER

APU S/N	62697	EON	V528
		P.O.	S306948

CAZ SHIP TO DATE | CAZ RET DATE

Hardware information							Stores Use			
COMMENT	IPC LOCATION	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
	49-27-00A-000A 186	ADAPTER	3611372-1	634-5306		1				
	49-27-00A-000B 100	SPACER T-DUCT	3614673-1	265-3380		1				
	49-51-00-000K-100B	DUCT	3617394-1	N/S		1				
	49-51-00 -000K 100A 49-51-00 -001J 035	VALVE BODY	3617459-1	645-3645		1				
	49-00A-000C-015	SHIM COMP HSG	3826146-1	265-0467		1				
	49-51-00 -000K 070 49-51-00 -001J 032	DUCT FAN INLET	3862202-2	265-0445		1				
	49-27-00A-000C 050 49-61-00 -001 015	COVER	3876063-1	265-0596		1				
	49-90-00A-000A-160	HOUSING	3880212-2	N/S		1				
	49-10-00A-000H-470	RETAINER HOSE	3882437-1	N/S		1				
	49-10-00A-000Q-251	SUPPORT	3882704-1	N/S		1				
	49-51-00-000K-030	DUCT FAN DISCH	3882721-3	265-3029		1				
	49-53-00-001-012	STRUT SRGE VLV	3884233-1	N/S		1				
	49-53-00-001-013	STRUT SRGE VLV	3884234-1	N/S		1				
	49-53-00-001-014	STRUT SRGE VLV	3884235-1	N/S		1				
	49-61-00-001-17	PERI SEAL	460-125	N/S		2				

APU S/N	62697	EON	V528
		P.O.	S306948

CAZ SHIP TO DATE | CAZ RET DATE

Hardware Information							Stores Use			
COMMENT	IPC LOCATION	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
	49-10-00A-000A-015	HARNESS	9F15098-504	563-4050		1				
	49-24-00A-000G-235	RING SEAL	AIR22387	265-0225		1				
	49-27-00A-000D-010	PLATE I D	S9017C24P2	265-0637		1				
	49-25-00A-000P-040	SHAFT QUILL	3868001-1	265-0507		1				
	49-25-00A-000P-060	FITTING OIL XFER	3880123-2	265-0304		1				
	49-25-00A-000P-080	TUBE OIL	3880122-1	265-0303		4				
	49-25-00A-000P-100	FITTING VENT	3880124-1	265-0305		1				
	49-25-00A-000P-110	FITTING PRESS	3880292-1	265-0532		1				
	49-27-00A-000E-150	FITTING SPECIAL	3880164-2	N/S		1				
	49-10-00A-000E-480	BRACKET L/H	1F17165-501	265-3131	10-01-00	1				
	49-10-00A-000E-490	BRACKET R/H	1F17165-502	265-3127	10-01-00	1				
	49-10-00A-000H-330 49-16-01-001J-063	TUBE MID BRG	3614747-1	265-3266	10-01-00	1				
	49-10-00A-000Q-090 49-16-01-001J-060	TUBE	351N1101-13	265-3248	10-01-00	1				
	49-10-00A-000Q-220 49-16-01-001J-055	TUBE	351N1101-14	265-3247	10-01-00	1				
	49-10-00A-000E-450	TUBE COOLING	1F17163-501	265-3128	10-01-00	1				
	49-10-00A-000E-470	HOSE	1F17164-502	265-3130	10-01-00	1				
	49-10-00A-000E-181	TUBE PDC 2	3611354-1	265-3111	10-01-00	1				
	49-10-00A-000F-191 49-10-00A-000G-261	TUBE BUFFER AIR	3614788-1	265-3215	10-01-00	1				
	49-10-00A-000G-270	TUBE MID BRG	3614789-1	265-3216	10-01-00	1				

APU S/N	62697	EON	V528
		P.O.	S306948

CAZ SHIP TO DATE | CAZ RET DATE

Hardware information							Stores Use			
COMMENT	IPC LOCATION	DESCRIPTION	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
	49-10-00A-000G-267 49-51-00-001J-046	TUBE FAN BUFF	3614792-1	265-3218	10-01-00	1				
	49-27-00-001-190 49-94-00-001J-170	TUBE XFER PV	3862552-1	265-0495	10-01-00	1				
	49-22-00A-000J-020	DUCT, SURGE	3884292-2	265-0674	10-01-00	1				
	49-10-00A-000Q-300	TUBE MID BRG	3880257-1	265-3255	10-01-00	1				
	49-10-00A-000L-120	TUBE DE-OIL	3880327-1	265-3301	10-01-00	1				
	49-10-00A-000F-550	TUBE GB VENT	3880328-1	265-3639	10-01-00	1				
	49-10-00A-000F-320 49-10-00A-000G-310	TUBE MID BRG PR	3880433-1	265-3105	10-01-00	1				
	49-10-00A-000F-170	TUBE MID BRG RT	3880434-1	265-3104	10-01-00	1				
	49-10-00A-000Q-300 49-16-01-001J-038	TUBE MID BRG	3880438-1	265-3623	10-01-00	1				
	49-10-00A-000F-181	TUBE AFT BRG RT	3880647-1	265-3106	10-01-00	1				
	49-10-00A-000H-520	TUBE FLOW DIV	3882720-1	265-3400	10-01-00	1				
	49-10-00A-000Q-510 49-16-01-001J-035	TUBE FUEL CONT	3883728-1	265-3627	10-01-00	1				
	49-10-00A-000E-331	TUBE GB VENT	3884333-1	265-0559	10-01-00	1				
	49-10-00A-000E-190	TUBE SURGE VLV	3884413-1	265-3062	10-01-00	1				
	49-10-00A-000H-010	TUBE INLT PLNM	3884433-1	265-3116	10-01-00	1				
	49-10-00A-000E-361	TUBE PDC 1	3884435-1	265-3117	10-01-00	1				
	49-10-00A-000F-141	TUBE GB PRESS	3884437-1	265-3050	10-01-00	1				
	49-27-00-001-184 49-94-00-001J-160	TUBE XFR PV	3862149-1	N/S	10-01-00	1				

APU S/N	62697	EON	V528
		P.O.	S306948

CAZ SHIP TO DATE | CAZ RET DATE

Hardware information							Stores Use			
COMMENT	IPC LOCATION	DESCRIPTION	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
	49-27-52-000K-020 49-51-00-001J-050	TUBE XFR CV	3862165-1	N/S	10-01-00	1				
	49-10-00A-000G-310	TUBE MID BRG	3880253-1	N/S	10-01-00	1				
	49-10-00A-000F-350	TUBE PV PRESS	3880432-1	N/S	10-01-00	1				
	49-10-00A-000H-600 49-94-00-001J-105	TUBE RT OIL CLR	3880270-1	N/S	10-01-00	1				
	49-10-00A-000F-360	TUBE AFT BRG RT	3880435-1	N/S	10-01-00	1				
	49-10-00A-000G-170	TUBE OIL FILL SCV	3880569-1	N/S	10-01-00	1				
	49-10-00A-000G-090	TUBE MID BRG	3880646-1	N/S	10-01-00	1				
	49-10-00A-000Q-160 49-16-01-001J-045	TUBE FUEL CONT	3882533-1	N/S	10-01-00	1				
	49-16-01-001J-035	TUBE FUEL CONT	3882559-1	N/S	10-01-00	1				
	49-10-00A-000H-240 49-10-00A-000Q-520	TUBE ACT DRN	3882528-1	N/S	10-01-00	1				
	49-10-00A-000E-250	TUBE PCD2	3884258-1	N/S	10-01-00	2				
	49-10-00A-000Q-250 49-16-01-001J-065	TUBE INLT PLNM	3882513-1	N/S	10-01-00	1				
	49-27-00A-000C-120 49-31-00-001-060	HOSE ASSY PRI	3882432-1	265-0323	10-01-00	1				
	49-27-00A-000C-150 49-31-00-001-075	HOSE ASSY SEC	3882433-1	N/S	10-01-00	1				
	49-10-00A-000H-480 49-31-00-001-002	HOSE IGV ACT	3882518-1	265-0536	10-01-00	2				

APU S/N	62697	EON	V528
		P.O.	S306948

CAZ SHIP TO DATE | CAZ RET DATE

	Hardware information						Stores Use			
COMMENT	IPC LOCATION	DESCRIPTION	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
	49-10-00A-000H-500 49-31-00-001-008	HOSE IGV ACT	3882519-1	265-0537	10-01-00	1				
	49-10-00A-000Q-290 49-16-01-001J-042	TUBE MID BRG VENT	3880568-1	265-3624	10-01-00	1				
	49-10-00A-000E-460A	TUBE SCV	1F17676-501	265-3150	10-01-00	1				
	49-10-00A-000Q-190 49-16-01-001J-057	TUBE CROSS VENT	3880648-1	265-3113	10-01-00	1				
	49-10-00A-000H-350	TUBE MID BRG SCAV	3614748-1	265-3265	10-01-00	1				

HISTORY PAGE

CAZ Qty Total =

ENTER REASON FOR REVISION

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	B22761

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
Honeywell International, Inc. 1944 E. Sky Harbor Circle Phoenix, AZ 85034 FAA CERTIFICATE #ZN3R030M	B22761 H7T790-001001

6. Item	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial / Batch No.	12. Status / Work
C01	FAN ASSY	3616959-6	N/A	000001	090396 TRACE # 07590- 949914-001R	OVERHAULED

13. Remarks:

REPAIR ORDER NUMBER: 949914-001
PART HAS BEEN WORKED AND INSPECTED IN ACCORDANCE WITH: MANUAL #: 49-52-37 REVISION: 02
ORI: T39191
REMARKS: C.A.F.E. REPORT & VIBRATION TEST DATA SHEET ATTACHED.

FOR JAA CUSTOMERS ONLY:
"THIS CERTIFIES THE WORK SPECIFIED IN BLOCK 12/13 WAS CARRIED OUT IN ACCORDANCE WITH JAR 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER JAA ACCEPTANCE CERTIFICATE NUMBER: JAA.4136"

14. Certifies the items identified above were manufactured in conformity to:

☐ Approved design data and are in a condition for safe operation.

☐ Non-approved design data specified in Block 13.

19. ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13.

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No:	20. Authorized Signature:	21. Approval/Certificate No:
			ZN3R030M
17. Name (Typed or Printed):	18. Date (m/d/y):	22. Name (Typed or Printed):	23. Date (m/d/y):
		ANDREW KAMINSKI	12/20/03

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

*Installer must cross-check eligibility with applicable technical data.

NSN 0052-00-012-9005

UNITED

PGEN446A-1
03/17/04
COAS FOR ENTIRE ASSEMBLY

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
COA SCHEDULING REPORT
REASON: REMOVAL

REQUESTOR NAME: REMOVAL
ORGANIZATION:

WORK CENTER: 554

SERIAL NBR	ET	MT	NAME	PWR RTG	CUST
62697		V	APU331	200E	UA

ORDER NUMBER
VEND

COA NUMBER	COA CAT	MODULE/ FUNC NBR	UNIT SERIAL	UNIT COA STATUS	ISS	COMP	COA TITLE	COMPLETION DATE
[illegible]	2		62697	OPEN	X460	X460	GTCP331-200 CLNG FAN VLV DELETION	
X460 V-9559-A	2		62697	OPEN	X460	X460	GTCP331-200 FLOW SENSING MODULE PALLET	
[illegible]	1		62697	OPEN	X460	X460	757/767 APU PNEU MOD FLT STAND & UPGRD	
S-9304	1		62697	OPEN	X460	X460	B757 331-APU INSTALL S/N DATA PLACARD	
S-9089	4	00988	UA00315633	F			757/767 GTCP331 APU IGV BUSHNG-UPGRADE	
S-9110	1		62697	OPEN	X460	X460	757/767 331 APU OIL CAL AND ADAPTER AS	
S-9127	2		62697	OPEN	X460	X460	GTCP331-200ER APU SCV SERPENTINE LINE	
S-9037	1		62697	OPEN	X460	X460	B767/B757 APU OIL LEVEL SIGHT GAGE PLT	

UNITED AIRLINES - MASTER ICS/BOM

Effectivity 331-200ER APU Engine Manual - Inspection and Condition Sheet

Origination Date: 3/12/2004

POWER SECTION MODULE "NV" **ALL PARTS CONTAINED WITHIN ARE NON HAZMAT**

60-49-20-00-00 ICS

EON: V518 | ESN: 61913 | VADE #: | CUSTOMER: UAL | MODULE ORDER #: NV518 | MODULE SERIAL #: P1375

DISPOSITION CODES:

E =	PART MEETS DETAIL PART EID REQUIREMENTS (ZERO TIME SINCE DETAIL PART INSPECTION)
A =	EXPOSED AREA OF PART MEETS VISUAL REQUIREMENTS OF APPROPRIATE EID (CONTINUED TIME SINCE DETAIL PARTS INSPECTION)
C =	PART ROUTED OR CORRECTIVE ACTION TAKEN
ATA# ___ = Function No.	EID NUMBER [49 precedes numbers shown) 49) 31-XX] SECTION / LIST - SEQUENCE NUMBER
EPM ___ = Function No.	STAMP TO INDICATE THAT PART HAS BEEN OFFLOGGED FROM MODULE FUNCTION NUMBER

INSPECTION NOTES

(STAMP OFF APPROPRIATE DISPOSITION CODE. MORE THAN ONE CODE MAY BE STAMPED.)
(INDICATE CONDITION OF UNSERVICEABLE PARTS REGARDLESS OF CONDITION.)
(TO CLEAR PARTS NOT EXPOSED DRAW A LINE THROUGH THE COMPLETE ENTRY AND STAMP IN LEFT MARGIN.)
(IF PART IS ROUTED ON AN R & R TAG IT IS MANDATORY TO STAMP THE APPLICABLE "E" "A" OR "C" BLOCK AND WRITE R & R IN THE "C" BLOCK THEN COMPLETE THE APPROPRIATE COMPUTER TRANSACTION.)
(ALL PARTS NEEDING REPAIR WILL HAVE AN IDENTIFICATION TAG WITH PART NUMBER, SERIAL NUMBER (IF APPLICABLE) AND THE QUANTITY, ATTACHED TO THE PART.)
(PARTS THAT DO NOT HAVE SPECIFIC EID'S WRITTEN FOR THEM MUST BE VISUALLY INSPECTED FOR GENERAL CONDITION PER 331-500 BOOK "0" 20-49-00-00, INTRODUCTION, SECTION 4, PARA A, STATEMENT 4.

MODULE INSPECTION GUIDE

(1) Module seperated from adjoining modules, inspected and found serviceable per EID 60-49-21-00-00 [ZERO (TSMI) No parts removed from module. No additional sign-off required.

I209A (2) Module partially or completely disassembled. Removed parts and / or exposed areas inspected per appropriate EID (ZERO TSDPI).

Control Date: 20040126

Revision Date 3/12/2004 Name

						CAZ SHIP TO DATE	CAZ RET DATE	MODULE ORDER #
APU S/N	61913	TSLV	06075	EON	V518			NV518
Total Time	18599	CSLV	06550	P.O.	S306133			MODULE SERIAL #
Total Cycles	20796			Date Rcvd.	03/09/04			P1375

Inspection Use Only					Hardware Info					Stores Use			
E	A	C	OFF-LOG FUNC #	COND/ROUTING	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
		I209A	EPM I209A 5719	OSV	BEARING THRUST	3613827-1	265-3238	20-01-01 35-020	1		1		
		I209A	EPM I209A 5720	OSV	BEARING ROLLER	3822099-1	265-0462	20-01-01 35-040	1		1		
		I209A	2240	LN 654058 prelim	HOUSING INLET	3810259-3	265-3071	22-01-00 20-100	1	1			
		I209A	5672	fretting OSV	RETAINER BRG	3826160-2	265-0471	22-02-00 12-150	1		1		
I209A			5675		INSERT SOUND ATTENUATOR	3810209-2	265-0048	22-03-00 16-010	1				
			5675		INSERT SOUND ATTENUATOR	DEC31-010 -501	265-0048	22-03-00 16-010	1				
		I209A	0999	ID OSV	HSG ASSY BRG	3810127-1	265-0045	22-04-00 16-015	1		1		
	I209A		2242		SEAL COUPLING	3822069-1	265-0458	22-05-00 11-110	1				
		I209A	1012	insert OSV	TIE-SHAFT	3822077-4	265-3356	22-07-00 11-090	1		1		
I209A			2278		INLET BELL	3810211-3	265-0449	22-08-00 16-130	1				
I209A			2278		INLET BELL	DEC31-012 -501	265-0449	22-08-00 16-130	1				
		I209A	2277	OD OSV	SHROUD	3810138-2	265-0204	22-09-00 16-140	1		1		
		I209A	EPM I209A 0993	LN 620619 prelim	IMPELLER C1	3822067-2	265-0457	22-10-00 11-030	1	1			
		I209A	0994	ID chipped OSV	DIFFUSER ASSY C1	3826230-1	265-0482	22-11-00 16-120	1		1		
		I209A	3826231-1	assy	C1 DIFFUSER VANE	3826231-1	265-3351	22-11-01 16-125	1	DO NOT SEND THIS PART TO CAZ. SEND DIFFUSER ASSY			

APU S/N	61913	EON	V518
		P.O.	S306133

CAZ SHIP TO DATE

CAZ RET DATE

MODULE ORDER # NV518

MODULE SERIAL # P1375

Inspection Use Only					Hardware Info					Stores Use			
E	A	C	OFF-LOG FUNC #	COND/ROUTING	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
		I209A	2252	Volute OSV	HSG ASSY COMP	3826138-3	265-3009	22-12-00 16-080	1	0	1		
		I209A	0995	EPN I209A on 654552	IMPELLER C2	3822068-1	265-0210	22-13-00 11-045	1	1			
		I209A	0996	warped side OSV	C2 DIFFUSER VANE	3826262-1	265-0484	22-14-00 16-100	1		1		
		I209A	0997	OD OSV	DESWIRL ASSY	3826110-2	265-0465	22-15-00 16-020	1		1		
		I209A	1000	crk OSV	LINER ASSY COMB TRANS	3844001-1	265-0113	22-16-00 16-030	1		1		
		I209A	2261	ID OSV	LABYRINTH SEAL	3844002-1	265-0226	22-17-00 16-040	1		1		
I209A			2257		MOUNT AFT	3870023-1	265-0291	22-20-00 16-420	1				
I209A			2257		MOUNT AFT	3870024-1	265-0292	22-20-00 16-420	1				
		I209A	2255	OSV	ROTOR SEAL	3822057-3 DEC31-167 -501	265-0456	22-22-00 35-060	1		1		
I209A			2261		BRACKET IGNITION BOX	3826168-1	265-0094	22-99-00 16-440	1				
I209A			2261		BRACKET FLOW DIVIDER	3826169-2	265-0091	22-99-00 16-440	1				
I209A			2261		BRACKET HEATSHIELD	3826176-2	265-0090	22-99-00 16-440	1				
I209A			2261		SHIELD MOUNT	3826177-2	265-0092	22-99-00 16-440	1				
I209A			2261		SHIELD MOUNT	3826178-3	265-0093	22-99-00 16-440	1				
I209A			2261		SHIELD MOUNT	3826179-1	265-0095	22-99-00 16-440	1				

APU S/N	61913	EON	V518
		P.O.	S306133

CAZ SHIP TO DATE

CAZ RET DATE

MODULE ORDER # NV518

MODULE SERIAL # P1375

Inspection Use Only					Hardware Info					Stores Use			
E	A	C	OFF-LOG FUNC #	COND/ROUTING	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
		I209A	EPM 1002	crk osv	CHAMBER COMBUSTION	3830051-5	265-3097	23-01-00 20-010	1		1		E74
			2258		RING CONTAINMT	3844045-2	265-0622	23-02-00 20-030	1				
I209A			1001		CASE COMB CHAMBER	3844053-1	265-0491	23-04-00 20-020	1				
			2259		RING SPLIT	3844006-1	265-0228	23-05-00 20-090	2				
I209A			1097		COUPLG & SEAL	3840016-1	265-0487	23-06-00 11-050	1				
		I209A	2234	sea strip osv	SHROUD FL NOZ	3830054-9	265-3204	23-32-00 20-540	12		3		
I203A			14520		RETAINER NOZ	3613619-1	265-3370	23-33-00 20-550	12				
		I209A	2260	osv	SUPPORT T1 STR	3844007-1	265-0229	24-01-00 31-020	1		1		
		I209A	2286	assy osv	STATOR ASSY T1	3844040-5	265-3205	24-02-00 31-010	1		1		E74
I209A		I209A	EPM 1005		STATOR VANE T1 MAR-M	3844038-4	265-3206	24-02-01 31-011	1				E74
		I209A	EPM 1005	crk assy osv	STATOR VANE T1 BI-CAST	3614744-3	265-3616	24-02-02 31-011	1				E74
		I209A	5710	Dissasy	WHEEL ASSY T1	3840002-3	265-3183	24-03-00 30-031	1				
		I209A	EPM 1004	LN 587207 prelim	DISC T1	3840019-1	265-0224	24-03-01 30-030	1	1			E74
			1003	burned osv	BLADES T1	E3840004-5	265-3181	24-03-02 32-170	36	36			552
		I209A	2262	coating osv	SHROUD T1	3844008-1	265-0230	24-04-00 31-080	1		1		

APU S/N	61913	EON	V518
		P.O.	S306133

CAZ SHIP TO DATE

CAZ RET DATE

MODULE ORDER # NV518

MODULE SERIAL # P1375

Inspection Use Only					Hardware Info					Stores Use			
E	A	C	OFF-LOG FUNC #	COND/ROUTING	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
		I203A	2281	LN 671460	STATOR ASSY T2	3844011-9	265-3208	24-05-00 31-060	1	DO NOT SEND THIS ASSY TO CAZ			
		I20	1008	crk OSV	STATOR VANE T2	3844012-3	265-0233	24-05-01 31-061	1		1		552
			2287	ID OSV	LABYRINTH SEAL T2	3844036-2	265-0250	24-05-03 31-063	1		1		552
		209A	2263	crk OSV	SUPPORT T2 STR	3844009-1	265-0231	24-06-00 31-050	1		1		
		I20	5711	disassy	WHEEL ASSY T2	3840006-1	265-0221	24-07-00 30-041	1	1			
		I	EPM 1007	LN 654022 prelim	DISC T2	3840007-1	265-0222	24-07-01 30-040	1	1			E74
		I20		U/S OSV	SEAL, DISC T2	868186(TYP)	265-3306	24-07-01 30-040	1		1		
		I209A	1006	F.O OSV	BLADES T2	E3840008-2	265-3176	24-07-02 32-100	40	40			552
		I20	2288	LN 654499 disassy	STATOR ASSY T3	3844018-1	265-0238	24-08-00 31-070	1	DO NOT SEND THIS ASSY TO CAZ			
			1010	crk OSV	STATOR VANE T3	3844019-1	265-0239	24-08-01 31-071	1		1		552
			2283	ID OSV	LABYRINTH SEAL T3	3844043-2	265-0256	24-08-03 31-073	1		1		552
		I209	~~EPM~~ 1009	F.O OSV SN 0-0345-7310	WHEEL ASSY T3	3840022-4	265-0223	24-09-00 30-061	1		1		E74
		I203	~~EPM~~ 1009	CUT assy OSV	SEAL ASSY	868186(TYP)	265-3306	24-09-00 30-061	1				
I209			1011		SUPPORT TURB BEARING	3844028-4	265-0595	24-10-00 20-025	1				
I209A			1091		COUPLING ROTOR	3840011-3	265-3037	24-11-00 30-100	1				

Power Section "NV " mod I & C Sheet pg 6 of 14

APU S/N	61913	EON	V518
		P.O.	S306133

CAZ SHIP TO DATE | CAZ RET DATE

MODULE ORDER # NV518

MODULE SERIAL # P1375

Inspection Use Only					Hardware Info					Stores Use			
E	A	C	OFF-LOG FUNC #	COND/ROUTING	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
I209A			5665		SUPPORT BRG	865042-6	265-0150	24-13-00 12-020	1				
		I209A	2250	Fretting 05V	HEATSHIELD	3613194-2 3844268-3	265-0594 265-3144	24-14-00 20-120	1		1		
I209A			1013	non routine 552 CRK	MUFFLER EXST	3850007-1	265-0117	24-16-00 31-210	1	1			
I209A			2253		HSG MUFFLER	3850010-2	265-0494	24-17-00 31-200	1				
~~HPG REPLENISHMENT PART~~			5714		GASKET CURVIC COUPLING	868892-1	265-3359	24-34-00 30-090	2	DO NOT SEND THIS PART TO CAZ-HPG RPL PART			
HPG REPLENISHMENT PART			5709A		GASKET CURVIC COUPLING	868892-2	265-0336	24-34-00 30-070	1	DO NOT SEND THIS PART TO CAZ-HPG RPL PART			
HPG REPLENISHMENT PART			5713		GASKET CURVIC COUPLING	868892-3	265-3360	24-34-00 30-080	1	DO NOT SEND THIS PART TO CAZ-HPG RPL PART			
~~HPG REPLENISHMENT PART~~			5715		GASKET CURVIC COUPLING	3842130-7	265-3212	24-34-00 30-075	1	DO NOT SEND THIS PART TO CAZ-HPG RPL PART			
I209A					NUT	3840017-1	N/S	24-35-00	1				
			5721		RETAINER BRG	3101091-3	265-0663	24-37-00 35-050	1				
		I209A	2264	05V	SEAL ASSY CARBON TURB	3844065-2	265-3040	24-42-00 12-010	1		1		
I209A			5787		CONE TURB TAIL	3850008-1	160-7796	24-43-00 55-100	1				
			2270		BRACKET DRAIN	3844078-1	265-0492	27-04-00 50-220	1				
I209A		I209A	5766	Ica 05V	SHIELD ASSY OIL IN & RET	3880170-3	265-3044	27-05-00 50-440	2		1		
		I209A	14940	Fretting 05V	TUBE OIL INLET	3880168-1	265-0146	27-05-01 50-640	1		1		

APU S/N	61913	EON	V518
		P.O.	S306133

CAZ SHIP TO DATE

CAZ RET DATE

MODULE ORDER # NV518

MODULE SERIAL # P1375

Inspection Use Only					Hardware Info					Stores Use			
E	A	C	OFF-LOG FUNC #	COND/ROUTING	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
I209A			14939		TUBE OIL OUTLET	3880169-2	265-3180	27-05-01 50-630	1				
[illegible]			5765		TUBE VENT	3880305-1	265-0533	27-06-00 50-430	1				
I209A			5762		BLANKET INSULATION	3826184-5	265-0478	27-10-00 50-000	1				
I209A			5763		BLANKET INSULATION	3826185-5	265-0479	27-10-00 50-000	1				
I209A			5764		BLANKET INSULATION	3826186-5	265-0480	27-10-00 50-000	1				
I209A			5768		BLANKET INSULATION	3844082-1	265-0687	27-10-00 50-000	1				
I209A			5767		BLANKET INSULATION	3844083-1	265-0688	27-10-00 50-000	1				
I209A			5769		BLANKET INSULATION	3844084-1	265-0689	27-10-00 50-000	1				
I209A			5771		BLANKET INSULATION	3844085-1	265-0690	27-10-00 50-000	1				
I209A			5771		BLANKET INSULATION	3844086-1	265-0691	27-10-00 50-000	1				
I209A			5696		MANIFOLD FUEL PRIMARY	3882426-1	265-0321	10-01-00 20-500	1				
I209A			5697		MANIFOLD FUEL SECONDARY	3882427-1	265-0322	10-01-00 20-510	1				
		I209A	EPM I209A 1014	OSV	NOZZLE FUEL PRIMARY	3830057-7	265-0101	10-01-00 20-499	6		6		E74
		I209A	EPM I209A 1015	OSV	NOZZLE FUEL SECONDARY	3830057-6	265-0218	10-01-00 20-509	6		6		E74
		I209A	5778	disassy	PUMP ASSY TURB SCAVENGE	3880160-5	265-0142	90-05-00 55-010	1	DO NOT SEND ASSY TO CAZ			

APU S/N	61913	EON	V518
		P.O.	S306133

CAZ SHIP TO DATE

CAZ RET DATE

MODULE ORDER # NV518

MODULE SERIAL # P1375

Inspection Use Only					Hardware Info					Stores Use			
E	A	C	OFF-LOG FUNC #	COND/ROUTING	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
I209A			15010		LEAD ASSY IGN EXCITER	53109-3	671-0049	41-15-00 55-510	1				
		I209A	0998	LN 666272 prelim	SHAFT ENG COMP	3822065-1	265-0208	22-06-00 11-100	1	1			

331-200ER "NV" MODULE

NON EID PARTS BILL OF MATERIAL PARTS ONLY

EFF 331-200ER

APU S/N	61913	EON	V518
		P.O.	S306133

CAZ SHIP TO DATE

CAZ RET DATE

MODULE ORDER # NV518

MODULE SERIAL # P1375

Hardware information

COMMENTS	IPC LOCATION	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	Stores Use: UAL QTY	CAZ QTY	JAL/CAZ INITIAL	UAL RECV
	49-22-00A-000D-160 49-25-00A-000E-245	SEAL ASSY	3611175-1 DEC31-157 -501	265-0037		1				
	49-24-00A-000B-070	RETAINER	3616847-1	265-3647		1				
	49-24-00A-000B-080	RETAINER	3616847-2	265-3648		1				
	49-22-00A-000D-225	SPACER BRG	3617723-1	265-3652		1				
	49-22-00A-000D-025 49-25-00A-000E-315	NUT HEX	3822056-1	265-0051		1				
	49-31-00-001-107 49-33-00A-000A-000A	FUEL NOZZLE SET PRIMARY	331 NOZ PRI	265-3098		1				
	49-31-00-001-108 49-33-00A-000B-000A	FUEL NOZZLE SET SECONDARY	331 NOZ SEC	265-3099		1				
	49-27-00A-000E-035 49-41-00-001-035	PLATE INSULATOR	3826170-1	N/S		1				
	49-24-00A-000F-015	WASHER	3840023-1	N/S		1				
	49-24-00A-000A-120	ADAPTER IGNITER	3888053-1	N/S		1				
	49-24-00A-000M-060	BAFFLE	PF3844080 -1	265-3016		1				
	49-24-00A-000B-060	SEAL TADPOLE	651-5503 -9002	265-3645		1				
100% ROUTE TO CAZ	49-24-00A-000G-205	T1 RING SEAL	AIR22389	265-0333		1		1		
	49-22-00A-000D-170 49-25-00A-000E-075	RETAINER SEAL	3826163-1	265-0088		1				
	49-24-00A-000L-030	RETAINER T1 BLADE	3840005-1	265-0103		36				

APU S/N	61913	EON	V518
		P.O.	S306133

CAZ SHIP TO DATE

CAZ RET DATE

MODULE ORDER # NV518

MODULE SERIAL # P1375

Hardware information

COMMENTS	IPC LOCATION	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	Stores Use: UAL QTY	Stores Use: CAZ QTY	Stores Use: UAL/CAZ INITIAL	Stores Use: UAL RECV
	49-24-00A-000J-010	RETAINER T2 BLADE	3840005-2	265-0486		40				
	49-24-00A-000F-055	ROTOR	3842032-2	265-0489		1		0		
	49-24-00A-000G-105	RETAINER SEAL	3844014-1	265-0234		1				
	49-24-00A-000K-020	RETAINER PISTON	3844058-1	265-3036		1				
	49-24-00A-000M-030	INNER SUPPORT	3844039-1	265-0253		1				
	49-24-00A-000G-085	SEAL LABYRINTH	3844043-2	265-0256		1				
	49-24-00A-000M-030	SUPPORT	3844049-1	265-3015		1				
	49-22-00A-000B-035	SEAL LABYRINTH	3844050 -1U1	265-3197		1				
	49-24-00A-000F-075	KEY ANTI-ROTATE	3101171-1	265-0023		1				
	49-24-00A-000F-085	WASHER TENSION	3000005-7	265-0021		1				

APU S/N	61913	EON	V518
		P.O.	S306133

CAZ SHIP TO DATE

CAZ RET DATE

MODULE ORDER # NV518

MODULE SERIAL # P1375

Hardware information | Stores Use

COMMENTS	IPC LOCATION	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
	49-24-00A-000F-065	RING THRUST	3101172-2	265-0024		1				
	49-91-41A-001B-240	HOUSING SET	3880942-1	265-3179		1				
	49-22-00A-000C-125	RETAINER	865057-1	265-0162		1				
	49-22-00A-000C-155	SPACER	866685-6	265-3323		4				
	49-16-01-001J-145 49-24-00A-000N-001	VALVE ASSY	968214-6	265-0181		1				
100% ROUTE TO CAZ	49-24-00A-000G-235	RING PISTON	AIR22387	265-0225		1		↑		
	49-24-00A-000K-030	T2 RING SEAL	AIR22388	265-0237		1				
	49-24-00A-000E-180	GEARSHAFT TURB SCAV DR	3880163-1	265-0145		1				
	49-24-00A-000F-005	NUT	3840017-1	N/S		1				

HISTORY PAGE

CAZ Qty Total =

ENTER REASON FOR REVISION

1. Approving National Aviation Authority/Country: **FAA/United States**

2. # AUTHORIZED RELEASE CERTIFICATE
FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number: 07N3451193

4. Organization Name and Address:
Honeywell International, Inc.
1944 E. Sky Harbor Circle
Phoenix, AZ 85034

PRODUCTION APPROVAL
TSOA

5. Work Order/Contract/Invoice Number:
AL01109661
B41827

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial / Batch No:	12. Status / Work:
001	DISK AXIAL	3846019-1	N/A TSO	000001	020335703173	NEW

13. Remarks:
THIS FORM IS ISSUED AT 1944 E. SKY HARBOR CIRCLE PHOENIX, AZ 85034 AS AUTHORIZED BY THE PRODUCTION APPROVAL HOLDER AIRWORTHINESS APPROVAL - PARTS.

14. Certifies the items identified above were manufactured in conformity to:
[X] Approved design data and are in a condition for safe operation.
[ ] Non-approved design data specified in Block 13.

19. [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13
Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature: Maureen K. Fitzgerald

16. Approval/Authorization No: ODARF602216NM

20. Authorized Signature:

21. Approval/Certificate No:

17. Name (Typed or Printed): MAUREEN K. FITZGERALD

18. Date (m/d/y): 03/27/04

22. Name (Typed or Printed):

23. Date (m/d/y):

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/component/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

*Installer must cross-check eligibility with applicable technical data.

NSN 0052-00-012-9005

LIFE LIMITED PART LOG

ASSEMBLY NAME | PART NUMBER

LIFE LIMITED PART NAME: DISK AXIAL | PART NUMBER: 3840019-1 | SERIAL NUMBER: 020335703173

MANUFACTURED PER FAR PART 21 UNDER PRODUCTION CERTIFICATE PC413 | SIGNATURE OR ACCEPTANCE STAMP: INSP STAMP # A-166

DATE INSTALLED	DATE REMOVED	ENGINE SERIAL NUMBER	TIME ON PART THIS INSTALLATION		TOTAL TIME ON PART		SIGNATURE/FAA NUMBER
			CYCLES*	HOURS	CYCLES*	HOURS	
			0:0	0:0	0:0	0:0	

* SEE SERVICE LIFE LIMITS OF CRITICAL LIFE LIMITED COMPONENTS. ENTRIES SHALL COMPY TO FAR 43.

PX-3107-76C

LIFE LIMITED PART MAINTENANCE RECORD

DATE	MAINTENANCE PERFORMED	AUTHORIZED SIGNATURE

PX-3107-76 BACK

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FORM 8130-3, AIRWORTHINESS APPROVAL TAG	EXT-3975D

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
EXTEX, Ltd. 5950 S. Sossaman Mesa, AZ 85212 FAA-PMA PQ2108NM	Order 8303 / PO REFS/O#45439

6. Item:	7. Description	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1.	Blade, , 1st Stg. Turbine Rotor	E3840004-5	Allied Signal Model GTCP331-200 Series *See reverse side of blue tag	72 (seventy-two)	L/N 5233	NEW

13. Remarks:

"AIRWORTHINESS APPROVAL- PARTS. THIS FORM IS NOT AN EXPORT APPROVAL"

FAA-PMA

14. Certifies the items identified above were manufactured in conformity to:

☒ Approved design data are in a condition for safe operation

☐ Non-approved design data specified in Block 13

19.

☐ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work performed, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
Pearl A. Dion	DMIR-636239-NM		
17. Name (Typed or Printed):	**18. Date: (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date: (m/d/y):**
Pearl A. Dion	November 20, 2002		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FORM 8130-3, AIRWORTHINESS APPROVAL TAG	EXT-4249D

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number
EXTEX, Ltd. 5950 S. Sossaman Mesa, AZ 85212 FAA-PMA PQ2108NM	ORDER 8688 / PO B49541

6. Item	7. Description	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work
1	Nozzle, 1st Stg.	E3844038-4	GTCP331-200 Series *See reverse side of blue tag	*10 (ten)	S/N MG9-S0109,MG9-S0111, MG9-S0112, MG9-S0086, ~~MG9-S0088,~~ MG9-S0096, MG9-S0089, MG9-S0099, MG9-S0103 & MG9-S0106	NEW

13. Remarks:

NV498-1 NV501-1

"AIRWORTHINESS APPROVAL- PARTS. THIS FORM IS NOT AN EXPORT APPROVAL"

FAA-PMA

1ea NV499

1pc returned to Extex 12-17-03 Return for 13 Credit # 1316 03/00a

1pc returned to Extex 11-17-03

14. Certifies the items identified above were manufactured in conformity to:

☒ Approved design data are in a condition for safe operation

☐ Non-approved design data specified in Block 13

19. ☐ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work performed, the items are approved for return to service.

15. Authorized Signature	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval Certificate No.:
Pearl A. Dion	DMIR-636239-NM		
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m-d-y):**
Pearl A. Dion	March 28, 2003		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part component assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensure that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	07N3313971

4. Organization Name and Address:		5. Work Order/Contract/Invoice Number:
Honeywell International, Inc. 1944 E. Sky Harbor Circle Phoenix, AZ 85034	PRODUCTION APPROVAL TSOA	AL01060843 B40272

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial / Batch No:	12. Status / Work:
001	NOZZLE ASSY	3830057-7	N/A TSO	000019	N/A. NOTE: ,All serialization not referenced here is not required or traceable by HONEYWELL INC. Reference FAA order 8130.21c)	NEW

13. Remarks:

THIS PORM IS ISSUED AT 1944 E. SKY HARBOR CIRCLE PHOENIX, AZ 85034 AS AUTHORIZED BY THE PRODUCTION APPROVAL HOLDER AIRWORTHINESS APPROVAL - PARTS.

14. Certifies the items identified above were manufactured in conformity to:

[X] Approved design data and are in a condition for safe operation.

[ ] Non-approved design data specified in Block 13.

19. [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No:	20. Authorized Signature:	21. Approval/Certificate No:
Lewis Emmitt	ODARF602216NM		
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
LEWIS EMMITT	11/05/03		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	746351-001

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
Honeywell International, Inc. *1944 E. Sky Harbor Circle* Phoenix, AZ 85034 FAA CERTIFICATE #ZN3R030M	746351-001 746351-001

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial / Batch No:	12. Status / Work:
001	BEARING RLR	3822099-1	N/A	000001	GR03 09100-S30 TRACE # 09100- N/A	OVERHAULED

13. Remarks:

REPAIR ORDER NUMBER: 746351-001
PART HAS BEEN WORKED AND INSPECTED IN ACCORDANCE WITH: MANJAL #: 49-23-49 REVISION: 15
ORI: T30904
REMARKS: BEARING RESTORATION PER SUPPLIER ROUTING 5RNH 106-265.

FOR JAA CUSTOMERS ONLY:
"THIS CERTIFIES THE WORK SPECIFIED IN BLOCK 12/13 WAS CARRIED OUT IN ACCORDANCE WITH JAR 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER JAA ACCEPTANCE CERTIFICATE NUMBER: JAA.4136"

14. Certifies the items identified above were manufactured in conformity to:	19. ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13
☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13.	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature	16. Approval/Authorization No:	20. Authorized Signature:	21. Approval/Certificate No:
			ZN3R030M
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
		BRUCE BREKKE	10/25/03

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1. Approving National Aviation Authority/ Country:	2	3. Form Tracking Number:
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	10219615

4. Organization Name and Address:	Cert. No.	5. Work Order /Contract/Invoice Number:
Delavan Inc d/b/a Turbine Fuel Technologies 811 Fourth St. West Des Moines, Iowa 50265	KT2R964K	B22011

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch No:	12. Status/Work:
01	NOZZLE ASSY	3836057-6	N/A	1	MFG ORDER# 00260178 SERIAL# WV1-0335	DLN P/N 68009-6HL OVERHAULED

13. Remarks: **OVERHAULED TO:** **CMM# 73-12-01**

This tag doesn't specify receiving inspection and Tear Down findings for the component. This data and other pertanent details are on file at the repair station under the Mfg. Order # shown above.

Critical processes performed: ☐ Welding per Delavan PS Spec; ☐ Brazing per Delavan PS Spec; ☐ Plating per Delavan PS Spec; ☐ _____ per Delavan PS Spec;

Critical inspection processes performed: ☐ X-Ray per Delavan PS Spec; ☐ FPI per Delavan PS Spec; [X] Pressure Test per Delavan PS Spec; [X] Functional Test per Delavan PS Spec;

"Certifies that the work specified in block 12/13 was carried out in accordance with JAR 145 and with respect to that work the aircraft component is considered ready for release to service under JAA Acceptance Certificate Number: JAA 4378"

14. Certifies that items identified above were manufactured in conformity to:
☐ Approved design data and are in condition for safe operation.
☐ Non-approved design data specified in Block 13.

19 [X] 14 CFR 43.9 Return to Service [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
			KT2R964K
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
		PAM LANE	SEP 15 2003

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1. Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1. Approving National Aviation Authority/ Country:	2	3. Form Tracking Number:
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	10219612

4. Organization Name and Address:	Cert. No.	5. Work Order /Contract/Invoice Number:
Delavan Inc d/b/a Turbine Fuel Technologies 811 Fourth St. West Des Moines, Iowa 50265	KT2R964K	B22011

6. Item:	7. Description:	8. Part Number:	9. Eligibility *	10. Quantity:	11. Serial/Batch No:	12. Status/Work:
01	NOZZLE ASSY	3830057-6	N/A	1	MFG ORDER# 00260178 SERIAL# WY1-0336	DLN P/N 68009-6HL OVERHAULED

13. Remarks: **OVERHAULED TO:** **CMM# 73-12-01**

This tag doesn't specify receiving inspection and Tear Down findings for the component. This data and other pertinent details are on file at the repair station under the Mfg. Order # shown above.

Critical processes performed. ☐ Welding per Delavan PS Spec. ☐ Brazing per Delavan PS Spec; ☐ Plating per Delavn PS Spec; ☐ _____ per Delavan PS Spec;

Critical inspection processes performed. ☐ X-Ray per Delavan PS Spec; ☐ FPI per Delavan PS Spec; [X] Pressure Test per Delavan PS Spec; [X] Functional Test per Delavan PS Spec;

"Certifies that the work specified in block 12/13 was carried out in accordance with JAR 145 and with respect to that work the aircraft component is considered ready for release to service under JAA Acceptance Certificate Number: JAA 4378"

14. Certifies that items identified above were manufactured in conformity to:
☐ Approved design data and are in condition for safe operation.
☐ Non-approved design data specified in Block 13.

13 [X] 14 CFR 43.9 Return to Service [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
			KT2R964K
17. Name (Typed or Printed):	18. Date (m/d/y):	22. Name (Typed or Printed):	23. Date (m/d/y):
		PAM LANE	SEP 15 2003

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1.
Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1. Approving National Aviation Authority/ Country:	2	3. Form Tracking Number:
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	10219610

4. Organization Name and Address:	Cert. No.	5. Work Order /Contract/Invoice Number:
Delavan Inc d/b/a Turbine Fuel Technologies 811 Fourth St. West Des Moines, Iowa 50265	KT2R964K	B22011

6. Item:	7. Description:	8. Part Number:	9. Eligibility *	10. Quantity:	11. Serial/Batch No:	12. Status/Work:
01	NOZZLE ASSY	3830057-6	N/A	1	MFG ORDER# 00260178 SERIAL# 1XM04420	DLN P/N 68009-6HL OVERHAULED

13. Remarks: **OVERHAULED TO:** **CMM# 73-12-01**

This tag doesn't specify receiving inspection and Tear Down findings for the component. This data and other pertinent details are on file at the repair station under the M/g. Order # shown above.

Critical processes performed: ☐ Welding per Delavan PS Spec; ☐ Brazing per Delavan PS Spec; ☐ Plating per Delavan PS Spec; ☐ _____ per Delavan PS Spec;

Critical inspection processes performed: ☐ X-Ray per Delavan PS Spec; ☐ FPI per Delavan PS Spec; ☒ Pressure Test per Delavan PS Spec; ☒ Functional Test per Delavan PS Spec;

"Certifies that the work specified in block 12/13 was carried out in accordance with JAR 145 and with respect to that work the aircraft component is considered ready for release to service under JAA Acceptance Certificate Number: JAA 4375"

14. Certifies that items identified above were manufactured in conformity to:
☐ Approved design data and are in condition for safe operation.
☐ Non-approved design data specified in Block 13.

19 ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
			KT2R964K
17. Name (Typed or Printed):	18. Date (m/d/y):	22. Name (Typed or Printed):	23. Date (m/d/y):
		PAM LANE	SEP 15 2003

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1.
Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1. Approving National Aviation Authority/ Country:	2	3. Form Tracking Number:
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	10219611

4. Organization Name and Address:	Cert. No.	5. Work Order /Contract/Invoice Number:
Delavan Inc d/b/a Turbine Fuel Technologies 811 Fourth St. West Des Moines, Iowa 50265	KT2R964K	B22011

6. Item:	7. Description:	8. Part Number:	9. Eligibility *	10. Quantity:	11. Serial/Batch No:	12. Status/Work:
01	NOZZLE ASSY	3830057-6	N/A	1	MFG ORDER# 00260178 SERIAL# WV1-0334	DLN P/N 68009-6HL OVERHAULED

13. Remarks: **OVERHAULED TO:** **CMM# 73-12-01**

This tag doesn't specify receiving inspection and Tear Down findings for the component. This data and other pertinent details are on file at the repair station under the Mfg. Order # shown above.

Critical processes performed: ☐ Welding per Delavan PS Spec; ☐ Brazing per Delavan PS Spec; ☐ Plating per Delavan PS Spec; ☐ _____ per Delavan PS Spec;

Critical inspection processes performed: ☐ X-Ray per Delavan PS Spec; ☐ FPI per Delavan PS Spec. ☒ Pressure Test per Delavan PS Spec; ☒ Functional Test per Delavan PS Spec;

"Certifies that the work specified in block 12/13 was carried out in accordance with JAR 145 and with respect to that work the aircraft component is considered ready for release to service under JAA Acceptance Certificate Number: JAA 4378"

14. Certifies that items identified above were manufactured in conformity to:
☐ Approved design data and are in condition for safe operation
☐ Non-approved design data specified in Block 13.

19 ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15. Authorized Signature:	16. Approval/Authorization No:	20. Authorized Signature:	21. Approval/Certificate No.:
			KT2R964K
17. Name (Typed or Printed):	18. Date (m/d/y):	22. Name (Typed or Printed):	23. Date (m/d/y):
		PAM LANE	SEP 15 2003

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.
Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1. Approving National Aviation Authority/ Country:	2	3. Form Tracking Number:
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	10219613

4. Organization Name and Address:	Cert. No.	5. Work Order /Contract/Invoice Number:
Delavan Inc d/b/a Turbine Fuel Technologies 811 Fourth St. West Des Moines, Iowa 50265	KT2R964K	B22011

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch No:	12. Status/Work:
01	NOZZLE ASSY	3830057-6	N/A	1	MFG ORDER# 00250178 SERIAL# WVI-0333	DLN P/N 68009-6H1 OVERHAULED

13. Remarks: **OVERHAULED TO:** **CMM# 73-12-01**

This tag doesn't specify receiving inspection and Tear Down findings for the component. This data and other pertinent details are on file at the repair station under the Mfg. Order # shown above

Critical processes performed: ☐ Welding per Delavan PS Spec, ☐ Brazing per Delavan PS Spec; ☐ Plating per Delavn PS Spec; ☐ _____ per Delavan PS Spec;

Critical inspection processes performed: ☐ X-Ray per Delavan PS Spec; ☐ FPI per Delavan PS Spec; ☒ Pressure Test per Delavan PS Spec; ☒ Functional Test per Delavan PS Spec;

"Certifies that the work specified in block 12/13 was carried out in accordance with JAR 145 and with respect to that work the aircraft component is considered ready for release to service under JAA Acceptance Certificate Number: JAA 4378"

14. Certifies [illegible] items identified [illegible]re were manufactured in conformity to:
☐ Appr[illegible]d design [illegible] and are in condition for safe op[illegible]tion
☐ Non-app[illegible]ed design data specified in Block 13.

19 ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15. Authorized Signature:	16. A[illegible]al/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
			KT2R964K
17. Name (Typ[illegible]r Printed):	18. Date (m/d/y):	22. Name (Typed or Printed):	23. Date (m/d/y):
		PAM LANE	SEP 15 2003

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1.
Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1 Approving National Aviation Authority/ Country:	2	3. Form Tracking Number:
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	10219614

4. Organization Name and Address:	Cert. No.	5. Work Order /Contract/Invoice Number:
Delavan Inc d/b/a Turbine Fuel Technologies 811 Fourth St. West Des Moines, Iowa 50265	KT2R964K	B22011

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch No:	12. Status/Work:
01	NOZZLE ASSY	3830057-6	N/A	1	MFG ORDER# 00260178 SERIAL# 1RN08112	DLN P/N 68009-6HL OVERHAULED

13. Remarks: **OVERHAULED TO:** **CMM# 73-12-01**

This tag doesn't specify receiving inspection and Tear Down findings for the component. This data and other pertinent details are on file at the repair station under the Mfg. Order # shown above.

Critical processes performed: ☐ Welding per Delavan PS Spec; ☐ Brazing per Delavan PS Spec; ☐ Plating per Delvavn PS Spec; ☐ _____ per Delavan PS Spec;

Critical inspection processes performed: ☐ X-Ray per Delavan PS Spec; ☐ FPI per Delavan PS Spec; ☒ Pressure Test per Delavan PS Spec; ☒ Functional Test per Delavan PS Spec;

"Certifies that the work specified in block 12/13 was carried out in accordance with JAR 145 and with respect to that work the aircraft component is considered ready for release to service under JAA Acceptance Certificate Number: JAA 4378"

14. Certifies that items identified above were manufactured in conformity to:
- ☐ Approved design data and are in condition for safe operation
- ☐ Non-approved design data specified in Block 13.

19 ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
		Pam Lane	KT2R964K
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
		PAM LANE	SEP 15 2003

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that he/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1.
Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1 Approving National Aviation Authority Country	2 AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	3 Form Tracking Number
FAA/UNITED STATES		101041

4 Organization Name and Address

Ace Precision Machining Corporation
W146 N5714 Enterprise Ave.
Menomonee Falls, WI 53051
FAA Repair Station #QAPR054K

5 Work Order/Contract/Invoice Number:
PO# B23154 Item 2

6 ITEM	7 DESCRIPTION	8 PART NUMBER	9 ELIGIBILITY:*	10 QUANITY	11 BATCH/SERIAL NUMBER	12 STATUS/WORK
1	Combustor	3830051-5	N/A	1	101041	Overhaul

13 REMARKS

This Component has been fully repaired and inspected in accordance with current FAA regulations, manufacturers manuals, and work instructions for which this repair station is certified. Pertinent details of the repair are on file at this repair station under the work order indicated above.

Auth Doc: 49-23-01/AR01 REV: 02/04/03
Thermal barrier coat forging curl

Auth Doc: IRM 49-23-49 REV: 15
Weld repair cracks

Thermal Barrier Coat

Size/straighten

Limited life parts must be accompanied by maintenance history including total time/total cycles/time since new

14 Certifies the items identified above were manufactured in conformity to:

☐ Approved design data and are in a condition for safe operation.

☐ Non-approved design data specified in Block 13.

19

☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15 Authorized Signature:	16 Approval/Authorizatoin No.:	20 Authorized Signature	21 Approval/CertificateNo.:
			QAPR054K
17 Name (Typed or Printed):	18 Date (m/d/y):	22 Name (Typed or Printed): Jason Glocka	23 Date (m/d/y): 2/11/2004

USER/INSTALLER RESPONSIBILITIES:

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in block 1. Statements in block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

*Installer must cross-check eligibility with applicable technical data.

3830051-5 Combustor Profile readings

Enter Batch job Number: 505224

Enter Tracking Number: 98577

Measurement point	Row A (4.25 from datum A)	Row B (3.75 from datum A)	Row C (3.25 from datum A)
1	7.892	7.893	7.889
2	7.895	7.892	7.884
3	7.901	7.896	7.891
4	7.921	7.905	7.908
5	7.924	7.919	7.914
6	7.923	7.874	7.883
7	7.880	7.882	7.888
8	7.892	7.896	7.899
9	7.920	7.919	7.922
10	7.922	7.924	7.919
11	7.894	7.896	7.895
12	7.887	7.890	7.900
13	7.906	7.906	7.908
14	7.879	7.877	7.877
15	7.876	7.884	7.885
16	7.885	7.881	7.883
17	7.874	7.868	7.866
18	7.866	7.863	7.869
19	7.861	7.855	7.857
20	7.880	7.870	7.862
21	7.887	7.887	7.886
22	7.892	7.882	7.876
23	7.899	7.881	7.876
24	7.893	7.877	7.882
25	7.907	7.899	7.894
26	7.920	7.907	7.897
27	7.900	7.889	7.891
28	7.891	7.887	7.889
29	7.889	7.890	7.889
30	7.902	7.891	7.896
31	7.887	7.888	7.898
32	7.907	7.905	7.901
33	7.895	7.892	7.896
34	7.906	7.903	7.892
35	7.912	7.905	7.897
36	7.896	7.894	7.895

Upper limit:	7.925
Lower limit:	7.848

UNITED AIRLINES
E74 CMM INSPECTION

OPERATOR NAME: PAUL FREVELE
LOT NUMBER: 644410
PART NUMBER: 3030051-5
SERIAL NUMBER: 101041

LEGEND
******
\+ = ABOVE TOLERANCE
\- = BELOW TOLERANCE
. = WITHIN TOLERANCE
O = NO MEASUREMENT AT THIS LOCATION

	ROWS						AMOUNT OUT OF TOLERANCE					
LEG	A	B	C	D	E	F	A	B	C	D	E	F
***	**********						**********					
0	.	O	O	O	O	O						
2	.	O	O	O	O	O						
4	.	.	.	.	.	.						
6	.	.	.	.	.	.						
8	.	.	O	O	O	O						
10	O	.	O	O	O	O						
12	O	O	O	O	O	O						
14	O	O	O	O	O	O						
16	O	O	O	O	O	O						
18	O	O	O	O	.	.						
20	.	.	O	O	.	.						
22	.	.	.	.	.	.						
24	.	.	.	.	.	.						
26	.	.	.	.	.	.						
28	.	O	O	O	O	O						
30	.	O	O	O	O	O						
32	.	O	O	O	O	O						
34	.	.	.	.	.	.						
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58	.	O	O	O	O	O						
60	.	O	O	O	O	O						
62	.	O	O	O	O	O						
64	.	.	.	.	.	.						
66	.	.	.	.	.	.						
68	.	.	.	.	.	.						
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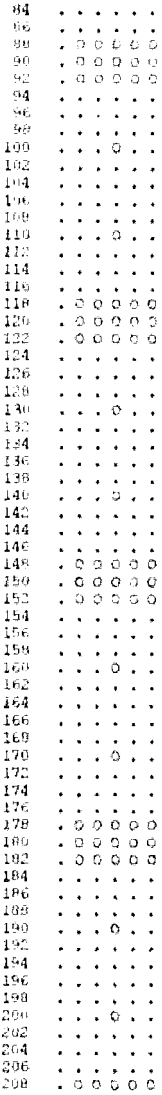
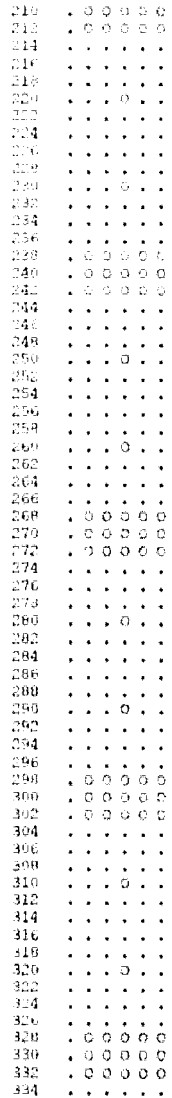
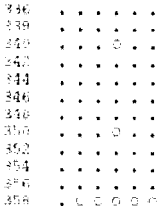
82	.	.	.	.	.	.						







1. Approving National Aviation Authority/Country	2.	3. From Tracking Number:
FAA/United States	**AIRWORTHINESS RELEASE CERTIFICATE** FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	60 86842

4. Organizations Name and Address:	4. Work Order/Contract/ Invoice Number:
Timken Aerospace Services (PBC), 336 Mechanic Street, Lebanon NH 03766 (USA)	8005188/B23409

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10 Quantity:	11. Serial/Batch Number:	12 Status/Work:
1	BEARING	3613827-1	N/A	ONE	UA04 S1998-184	Overhauled

13. REMARKS:

Work was performed in accordance with: TAS RSUAL 49-20-01/AR02

14. Certified the items identified above were manufactured in conformity to:	19. ☒ 14 CFR 43.9 Return to Service Other regulation specified in Block 13
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 18	Certifies, that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature	16. Approval/Authorization No	20. Authorized Signature:	21. Certificate Number:
		RJ Barnum	QPBR408K
17. Name (typed or printed)	18. Date (m/d/yy)	22. Name (typed or printed): RJ Barnum	23. Date (m/d/yy) March 10, 2004

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with national regulations by the user/installer before the aircraft may be flow.

1. Approving National Aviation Authority (Country)	2.	3. Form Tracking Number
FAA UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	RG606-663

4. Organization Name and Address	5. Work Order, Contract or Invoice Number
CHROMALLOY ARIZONA 5161 W. Polk Street, Phoenix, AZ 85043	S295018

6. Item	7. Description	8. Part Number	9. Eligibility *	10. Quantity	11. Serial/Batch Number	12. Status/Work
1	STAGE 3 SEAL	3844043-2	N/A	1	RG606-663	Overhauled

13. Remarks

WORK ORDER
The work described in block 12 was performed in accordance with:
IRM 49-23-49 Rev. 15, 09/29/2000
FAA DER APPROVAL No. DER-A094, 07/02/1998

Certifies that the work specified in block 12/13 was carried out in accordance with JAR 145 and with respect to that work the aircraft component is considered ready for release to service under JAA Acceptance Certificate Number: JAA.4325

14. Certifies the item identified above were manufactured in conformity to:
[ ] Approved design data and are in a condition for safe operation.
[ ] Non-approved design data specified in Block 13

19. [X] 14 CFR 43.9 Return to Service [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished with Title 14, Code of Federal Regulations, part 43 and in respect to the work items are approved for return to service

15. Authorized Signature	16. Approval Authorization No.	20. Authorized Signature	21. Approval/Certificate No.
		Patricia J. Peterson	TR3DB77L
17. Name (Typed or Printed)	**18. Date (mm/dd/yyyy)**	**22. Name (Typed or Printed)**	**23. Date (mm/dd/yyyy)**
		PATRICIA J PETERSON	03/10/2004

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1 it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the airworthiness authority of the country specified in block 1.

Statements in block 14 and 19 do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user installer before the aircraft may be flown.

*Installer must cross check eligibility with applicable technical data

NSN 0052-01-0102-9005

1. National Aviation Authority
UNITED STATES

AUTHORIZED RELEASE CERTIFICATE

2.

CHROMALLOY ARIZONA
5161 W. Polk Street, Phoenix, AZ 85043

3. Work Order Number
S00134

4. Item	5. Description	6. Part Number	7. Eligibility	8. Quantity	9. Serial/Batch Number	10. Status/Work
1	STAGE 2 SEAL	3844036-2	N/A	1	FJ456-478	Overhauled

13. Remarks

WORK ORDER
The work described in block 12 was performed in accordance with:
IRM 49-23-49 Rev. 15, 09/29/2000
FAA DER APPROVAL No. DER-A094, 07/02/1998

Certifies that the work specified in block 12/13 was carried out in accordance with JAR 145 and with respect to that work the aircraft component is considered ready for release to service under JAA Acceptance Certificate Number: JAA.4325

14. Certifies the item identified above were manufactured in conformity to:

[ ] Approved design data and are in a condition for safe operation.

[ ] Non-approved design data specified in Block 13.

19. [X] 14 CFR 43.9 Return to Service [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished with Title 14, Code of Federal Regulations, part 43 and in respect to the work, the items are approved for return to service

15. Authorized Signature	16. Approval Authorization No.	20. Authorized Signature	21. Approval Certificate No.
		Patricia J Peterson	TR3D877L
17. Name (Type or Print)	18. Date (mm/dd/yyyy)	22. Name (Type or Print)	23. Date (mm/dd/yyyy)
		PATRICIA J PETERSON	02/27/2004

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component as certified.

Where the user/installer work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1 it is essential that the user/installer ensures that the User/Airworthiness Authority accepts parts/components accredited from the airworthiness authority of the country specified in block 1.

Statements in block 14 and 19 do not constitute installation certification. In all cases aircraft maintenance record must contain an installation certification issued in accordance with the national regulations by the user/installer for/to the aircraft may be shown.

VOLVO AERO SERVICES LP

VOLVO

Part or Material Certification Form

ISO9001, AS9100 - ATA Specification 106

PAGE: 1 of 1

1. Seller's Name: Volvo Aero Services LP	3. Reference # D3MA3928
4. VOLVO AERO SERVICES LP 645 Park of Commerce Way Boca Raton, 33487	Phone # : (561) 998-9330 Fax # : (561) 998-9714 SITA/Wire Code : FLLGDXD Status : Surplus Parts Provider
5a. Seller's Contract Number : 004345008	5b. Buyer's P.O. Number : B41735: CHROMALLOY GAS TURBINE CORP

6. Item	7. Description	8a. Part Number	8b. Manufacturer	9. Eligibility	10. Quantity	11. Serial/Batch	12. Status
1	STATOR	3844012-3	ALLIEDSIGNAL INC	T.B.V	1	NSN	NEW

13a. REMARKS:

P# B41735

13b. Obtained from: HONEYWELL Traceable to: 145 HONEYWELL INTERNATIONAL INC	13c. Last Certified By: N/A Last Cert Date: Cert. No.

TO THE BEST OF OUR KNOWLEDGE BASED ON THE INFORMATION PROVIDED BY THE SUPPLIER IDENTIFIED IN BLOCK 13b, THE PART(S) DESCRIBED ABOVE WERE NOT OBTAINED FROM ANY GOVERNMENT OR MILITARY SOURCE NOR SUBJECTED TO CONDITIONS AS DEFINED IN FAA AC 20-62D Para 8(c)2 (EXTREME STRESS, SUDDEN STOPPAGE, HEAT, MAJOR FAILURE OR ACCIDENT).

14. New Parts/Material Certification

The following signature attests that to the best of our knowledge, based on the information provided by the supplier identified in Block 13b, the part(s) or material(s) identified above was (were) manufactured by an FAA Production Approval Holder or to an industry or commercial standard.

[redacted]

Signature	Name PAULA BAILEY	For Volvo Aero Services Quality Assurance
	Date 03/10/04	

Notice: the above signature binds the signer and the SELLER to the accuracy of the information provided in this Form. Should the information provided in this FORM contain inaccuracies or misrepresentations, the signer and the SELLER be liable for damages and are subject to criminal prosecution under state and federal law.

1. Approving National Aviation Authority/Country: F. A/UNITED STATES	2. **AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number: 07N3188331 -E1/227625/001

4. Organization	Production Approval	5. Work Order/Contract/Invoice Number:
HONEYWELL INTERNATIONAL INC. UNIT 2-4 CHEVRON EATON RD., HEMEL HEMPSTEAD HERTFORDSHIRE HP2 7DR U.K.	TSOA	062901 EUN0228299 PO: D3MA3927106

6. Item	7. Description	8. Part Number	9. Eligibility *	10. Qty	11. Serial / Batch Number	12. Status / Work
1	STATOR	3844012-3	N/A TSO	1	N/A	NEW

13. Remarks THIS FORM IS ISSUED AT UNIT 2-4 CHEVRON
EATON RD., HEMEL HEMPSTEAD HERTFORDSHIRE HP2 7DR U.K.
AS AUTHORIZED BY THE PRODUCTION APPROVAL HOLDER

SUPPLEMENT EXPORT; UNITED STATES OF AMERICA

ALL SERIALIZATION NOT REFERENCED IN BLOCK 11 OF THIS FORM IS NOT REQUIRED OR TRACEABLE BY HONEYWELL

PO#41735

Limited life parts must be accompanied by maintenance history including total time / total cycles / time since new.

14 Certifies the items identified above were manufactured in conformity to:
[X] Approved design data and are in a condition for safe operation.
[ ] Non-approved design data specified in Block 13.

19. [ ] 14 CFR 43.9 return to service [ ] Other regulation specified in Block 13.

Certifies that unless otherwise specified in Block 13 the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title14, Code of Federal Regulations: part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature	16. Approval/Authorization No:	20. Authorized Signature:	21. Approval/Certificate Number
	ODARF602216NM		
17. Name (typed or printed)	**18. Date (mm/dd/yy):**	**22. Name (typed or printed)**	**23. Date (mm/dd/yy):**
GARY KING	12/29/03		

User / Installer Responsibilities: It is important to understand that the existence of this document alone does not automatically constitute authority to install the part / component / assembly. Where the user / installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1 it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the Airworthiness Authority of the country specified in block 1. Statements in block 14 and 19 do not constitute certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulation by the user/installer before the aircraft may be flown.

*(Optional) Installer must cross check eligibility with applicable technical data

1. Approving National Aviation Authority/Country:
FAA/UNITED STATES

2.

AUTHORIZED RELEASE CERTIFICATE

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

07N3188331 -E1/227625/001

4. Organization: HONEYWELL INTERNATIONAL INC.
UNIT 2-4 CHEVRON
EATON RD., HEMEL HEMPSTEAD
HERTFORDSHIRE HP2 7DR U.K.

Production Approval
TSOA

5. Work Order/Contract/Invoice Number:
062901
EUN0228299
PO: D3MA3927106

6. Item	7. Description	8. Part Number	9. Eligibility *	10. Qty	11. Serial / Batch Number	12. Status / Work
1	STATOR	3844012-3	N/A TSO	1	N/A	NEW

13. Remarks: THIS FORM IS ISSUED AT UNIT 2-4 CHEVRON
EATON RD., HEMEL HEMPSTEAD HERTFORDSHIRE HP2 7DR U.K.
AS AUTHORIZED BY THE PRODUCTION APPROVAL HOLDER

SUPPLEMENT EXPORT: UNITED STATES OF AMERICA

ALL SERIALIZATION NOT REFERENCED IN BLOCK 11 OF THIS FORM IS NOT REQUIRED OR TRACEABLE BY HONEYWELL

Pof
84/735

Limited life parts must be accompanied by maintenance history including total time / total cycles / time since new.

14. Certifies the items identified above were manufactured in conformity to:
[X] Approved design data and are in a condition for safe operation.
[ ] Non-approved design data specified in Block 13.

19. [ ] 14 CFR 43.9 return to service [ ] Other regulation specified in Block 13.

Certifies that unless otherwise specified in Block 13 the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title14, Code of Federal Regulations: part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature	16. Approval/Authorization No:	20. Authorized Signature:	21. Approval/Certificate Number
	ODARF602216NM		
17. Name (typed or printed)	18. Date (mm/dd/yy):	22. Name (typed or printed)	23. Date (mm/dd/yy):
GARY KING	12/29/03		

User / Installer Responsibilities: It is important to understand that the existence of this document alone does not automatically constitute authority to install the part / component / assembly. Where the user / installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the Airworthiness Authority of the country specified in block 1. Statements in block 14 and 19 do not constitute certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulation by the user/installer before the aircraft may be flown.

FAA Form 8130-3

*(Optional) installer must cross check eligibility with applicable technical data.

265-0037

B41422

263827 11/18/03 CC

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	DEC031114-4019-3136

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
DEC TECHNOLOGIES, INC., 501 INDUSTRIAL PARK ROAD, PINEY FLATS, TN 37686 PQ1469CE	TRA117161

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	SEAL ASSEMBLY, COMPRESSOR	DEC31-157-501	TO BE VERIFIED BY INSTALLER	25	44828	NEW

13. Remarks:

"THIS PMA PART IS NOT A CRITICAL COMPONENT", "AIRWORTHINESS APPROVAL" END

14. Certifies the items identified above were manufactured in conformity to:

☑ Approved design data and are in a condition for safe operation.
☐ Non-approved design data specified in Block 13.

19. 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
Dennis Scalf	DMIR 511218CE		
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
Dennis Scalf	November 14, 2003		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

FAA Form 8130-3 (6-01) *Installer must cross-check eligibility with applicable technical data. NSN: 0052-00-012-9005

DEC TECHNOLOGIES, INC.
Piney Flats, TN 37686
501 Industrial Park Road
Tel. (423) 538-0919
Fax (423) 538-0838

263255 10/17 SM

DEC TECHNOLOGIES, INC. DEC31-157-501
MODEL ELIGIBILITY:
Boeing 757 and 767
Airbus A300-600 and A310

FAA/PMA
10/14/03

DEC31 157-501

CERTIFICATION NUMBER 3993
PACKING SLIP NUMBER 3120

CERTIFICATE OF CONFORMANCE

FOR: TRANSAERO, INC.
80 CROSSWAYS PARK DRIVE
WOODBURY, NEW YORK 11797

DATE: OCTOBER 15, 2003

P.O. NUMBER 117161

PART NUMBER DEC31-157-501

QTY. ORDERED 25

DESCRIPTION SEAL ASSEMBLY, COMPRESSOR

QUANTITY SHIPPED 25

PMA SUPPLEMENT NUMBER 50

SERIAL NUMBERS

IT IS HEREBY CERTIFIED THAT THESE ITEMS HAVE BEEN MANUFACTURED TO FEDERAL AVIATION ADMINISTRATION APPROVED DESIGN DATA AND INSPECTED IN ACCORDANCE WITH FEDERAL AVIATION REGULATION 21.303[b].

WE FURTHER CERTIFY THAT THE MATERIAL TEST REPORTS AND PROCESS CERTIFICATIONS ARE ON FILE AND SUBJECT TO YOUR EXAMINATION AT OUR FACILITY.

EQUIPMENT CONTAINING MERCURY OR MERCURY COMPOUNDS WERE NOT USED FOR THE MANUFACTURING, ASSEMBLY, PACKAGING, INSTALLATION, EXAMINATION OR TESTING OF PARTS OR ASSEMBLIES ON THIS ORDER.

SHIPMENT COMPLETE X PARTIAL SHIPMENT _

Dennis Scalf

DENNIS SCALF
QUALITY MANAGER

Tel: 516-921-7400
SITA: ISPTXCR
Fax: 516-921-7407

TRANSAERO, inc.

80 Crosswnys Park Drive, Woodbury, New York, U.S.A. 11797-2045

Our Reference Number
CRZ-159305

Certificate of Conformance

Sold To: Chromalloy Arizona
5161 West Polk Street
Phoenix, AZ 85043

Marks

190143 1/20/04
Page 1

Ship To: Chromalloy Arizona
5150 West Van Buren Street
Phoenix, AZ 85043
ATTN: JERRY MOORE

Customer Order No: B41442

These commodities, technologies or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to U.S. law prohibited	Order Date 01/20/04	Code	Comp [XX] Part [ ] 1
Delivery Requested	Terms Net 30 Days	F.O.B. Point Factory/Origin	Ship Via UPS Red Coll.

Item	Part Number/Description	Quantity	Unit Price	Back Ordered	Shipped	Extension
1	DEC31-157-501 Seal Assembly, Compressor (3611175-1) DELIVERY: STOCK Manufacturer: DEC Technologies Inc. Receiving (Traceability)#: 263255 - 9 EACH Receiving (Traceability)#: 263827 - 19 EACH	28		0	28	

Certificate of Conformance

Resale Number 11-1761717 United States Export License May Be Required

Transaero, Inc.

Certificate of Conformance

It is hereby certified that the items or materials covered by this document have been inspected, tested and conform to the approval specifications relative thereto. Applicable certifications and data are on file at our facility and are available for review on site.

Authorized Signature

1. Approving National Aviation Authority (Country): FAA / United States	2. **AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number: 827115
[illegible]		5. Work Order, Contract, Inv#

4. Item	6. Description	7. Part Number	8. Quantity	9. Unit	10. Status/Work	11. Serial No.	12. Status/Work
1	SEAL ROTOR	[illegible]	N.A	1	OVERHAULED	B17115	OVERHAULED

13. Remarks

The above identified part was overhauled and inspected IAW Chromalloy Component Services, Inc. Repair Manual CSI-0381-200 REV 8/31 - EID #3-09-01-02-00, dated 2 February 2001 and CMI DER Repair WW01-15.

Repair WW01-15, Hardface Replacement
E.M.D.I.

NOTE: Process Performed by an Outside Vendor

LC-12 (Chromium Carbide Applied)
Bronair, North Haven, Conn.

Certifies that the work specified in Block 12/13 was carried out in accordance with Par 145 and with respect to that work the aircraft component is considered ready for release to service under FAA Acceptance Certificate Number: JAA5013.

14. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13.	19. ☒ 14 CFR 43.9 Return to Service ☒ Other Reg. spec. in Block 13 certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.	
15. Authorized Signature:	16. Approval/Auth. No.	20. Authorized Signature: Susan J. Moore
		21. Approval/Certificate No. WMFK711K
		22. Name (Typed or Printed)
		23. Date (m/d/y):

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1 it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

FAA 8130-3 (7-98) * Installer must retain this block completely with applicable technical data [illegible]

1. Approving National Aviation Authority/Country:	2. AUTHORIZED RELEASE CERTIFICATE	3. Form Tracking Number:
FAA / United States	FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	821840

4. Organization:	5. Work Order, Contract or Invoice No.
Praxair Surface Technologies, Inc. 441 Sackett Point Road North Haven, Connecticut 06473	160543

6.Item	7. Description	8. Part Number	9.Eligibility*	10.Quantity	11.Serial/Batch Number	12.Status/Work
1	ROTOR SEAL	3822057-3	N/A	1	B17115	REPAIRED

13. Remarks

E/M GTCP331-200/-250 ATA: 49-23-49.
REPAIR WG01-15
.008/.010" THICKNESS OF LC-1C (CHROME CARBIDE) COATING APPLIED.

Praxair Surface Technologies, Inc. certifies that the work specified in block 12/13 was carried out in accordance with Jar 1.5 and with respect to that work the aircraft component is considered ready for release to service under JAA Acceptance Certificate Number: JAA.4768

14. Certifies the items identified above were manufactured in conformity to:
☐ Approved design data and are in a condition for safe operation.
☐ Non-approved design data specified in Block 13.

19. ☒ 14 CFR 43.9 Return to Service ☑ Other Reg. spec. in Block 13
Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.	20. Authorized Signature	21. Approval Certificate Number:
			OY25074L
17. Name(Typed or Printed)	18. Date (m/d/y):	22. Name (Typed or Printed)	23. Date (m/d/y):
		Dean Miles Leighton	9/24/03

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

CZ CHROMALLOY AZ

1. Approving National Aviation Authority Country	2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number
FAA/United States		C311001 - 1

4. Organization Name and Address:

Advanced Materials Technologies, Incorporated, 2015 West Alameda Drive Tempe, Arizona 85282, (ZT3R036M)

5. Work Order/Contract/Invoice Number

B22855

RO# NV864

6. Item	7. Description	8. Part Number	9. Eligibility *	10. Quantity	11. Serial/Batch Number	12. Status/Work
001	SHROUD	3810138-2	N/A	1 EA	N/A C311001	OVERHAULED

13. REMARKS. INSPECTED AND OVERHAULED IN ACCORDANCE WITH UAL MANUAL 60-49-22-09/AR01, DATED 06/16/97.

"CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12/13 WAS CARRIED OUT IN ACCORDANCE WITH JAR 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER JAA ACCEPTANCE CERTIFICATE NUMBER: JAA.4020."

14. Certifies the items identified above were manufactured in conformity to:

☐ Approved Design data and are in a condition for safe operation

☐ Non-Approved Design data specified in Block 13.

19. [X] 14CFR 43.9 Return to Service [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13 the work in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service

15. Authorized Signature	16. Approval/Authorization No.:	20. Authorized Signature	21. Approval/Certificate No:
			ZT3R036M
17. Name (Typed or Printed)	18. Date(m/d/y)	22. Name (Typed or Printed)	23. Date (m/d/y)
			1/28/2004

USER / INSTALLER RESPONSIBILITIES:

It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part/component assembly.

Where the user installer work in accordance with the national regulations of an Airworthiness Authority different than the Airworthiness Authority of the country specified in block 1, it is essential that the user installer work ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the Airworthiness Authority of the country specified in block 1.

Statements in block 14 and 19 do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user installer before the aircraft may be flown.

* Installer must cross check eligibility with applicable technical data

1. Approved National Aviation Authority or Country	2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number
FAA UNITED STATES		101634

4. Organization Name and Address	5. Work Order Contract Invoice Number
Ace Precision Machining Corporation W146 N9714 Enterprise Ave. Menomonee Falls, WI 53051 FAA Repair Station #QAPR054K	PO# B23287 Item 1

6. ITEM	7. DESCRIPTION	8. PART NUMBER	9. ELIGIBILITY *	10. QUANTITY	11. BATCH/SERIAL NUMBER	12. STATUS/WORK
1	Transition Liner	3844001-3	N/A	1	101634	Overhaul

13. REMARKS

Host component has been fully repaired and inspected in accordance with current FAA regulations, manufacturers manuals, and work instructions for which this repair station is certified. Pertinent details of the repair are on file at this repair station under the work order indicated above.

Auth Doc: IRM 49-23-49 REV 15

Thermal Barrier Coat | Replace inner flange | Replace bolts

Limited life parts must be accompanied by maintenance history including total time, total cycles, time since new.

14. Certifies the items identified above were manufactured in conformity to:

☐ Approved design data and are in a condition for safe operation

☐ Non-approved design data specified in Block 13

19.

☒ 14 CFR 43 or Equivalent Part 43 ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 was described in Block 13 was accomplished in accordance with title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15. Authorized Signature	16. Approval/Authorization No.	20. Authorized Signature	21. Approval Certificate No.
			QAPR054K
17. Name (Typed or Printed)	**18. Date (m/d/y)**	**22. Name (Typed or Printed)**	**23. Date (m/d/y)**
		Jason Glunz	3 9 2004

USER INSTALLER RESPONSIBILITIES

It is important to understand that the certification of this document alone does not automatically constitute authority to install the part component assembly. Where the user installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user installer ensures that the airworthiness authority accepts parts components assemblies from the airworthiness authority of the country specified in block 1. Statements in block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations for the user installer before the aircraft may be flown.

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	WO #114392

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
BRITT METAL PROCESSING, INC. 15800 N.W. 49TH AVE MIAMI, FLORIDA 33014 DP4R136M	PO#B22144

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	DIFFUSER, 2ND STAGE - GTCP331	3826262-2MOD	TBV by installer	1	BMP #114392	OVERHAULED

13. Remarks:
OVERHAULED I.A.W. MANUAL 49-22-14/AR01, SEE BMP-144 FORM
OTHER APPROVALS->FAA 9108063D
CERTIFIES WORK IN BLOCK 12/13 WAS CARRIED OUT I.A.W. JAR 145 REGULATION AND ARE READY FOR RELEASE TO SERVICE UNDER JAA ACCEPTANCE CERTIFICATE # JAA 4279

14. Certifies the items identified above were manufactured in conformity to:

☐ Approved design data and are in condition for safe operation.

☐ Non-approved design data specified in Block 13.

19. ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13

Certifies that unless otherwise specified in block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
			DP4R136M
17. Name (Typed or Printed):	**18. Date:**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
		GERMAN H. VANEGAS	09/30/03

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

CZ CHROMALLOY AZ

1. Approving National Aviation Authority Country	2. AUTHORIZED RELEASE CERTIFICATE	3. Form Tracking Number
FAA/United States	FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	C401043 - 1

4. Organization Name and Address

Advanced Materials Technologies, Incorporated, 2015 West Alameda Drive Tempe, Arizona 85282, (ZT3R036M)

5. Work Order/Contract/Invoice Number

B23128

ROW NV501

6. Item	7. Description	8. Part Number	9. Eligibility *	10. Quantity	11. Serial/Batch Number	12. Status/Work
001	HOUSING	3826138-3	N/A	1 EA	N/A / C401043	OVERHAULED

13. REMARKS: INSPECTED AND OVERHAULED IN ACCORDANCE WITH UAL MANUAL 60-49-22-12/AR03, DATED 08/12/02.

"CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12/13 WAS CARRIED OUT IN ACCORDANCE WITH JAR 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER JAA ACCEPTANCE CERTIFICATE NUMBER: JAA.4020."

14. Certifies the items identified above were manufactured in conformity to:

☐ Approved Design data and are in a condition for safe operation

☐ Non-Approved Design data specified in Block 13.

19. [X] 14CFR 43.9 Return to Service [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13 the work in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service

15. Authorized Signature	16. Approval/Authorization No.:	20. Authorized Signature	21. Approval/Certificate No:
			ZT3R036M
17. Name (Typed or Printed)	**18. Date(m/d/y)**	**22. Name** *(Typed or Printed)*	**23. Date (m/d/y)**
			2/27/2004

USER / INSTALLER RESPONSIBILITIES:

It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part /component assembly.

Where the user installer work in accordance with the national regulations of an Airworthiness Authority different than the Airworthiness Authority of the country specified in block 1, it is essential that the user installer work ensures that his/her Airworthiness Authority accepts parts components assemblies from the Airworthiness Authority of the country specified in block 1.

Statements in block 14 and 19 do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user installer before the aircraft may be flown.

* Installer must cross check eligibility with applicable technical data

1. Approving National Aviation Authority/Country	2.	3. Form Tracking Number
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	892821-001

4. Organization Name and Address	5. Work Order/Contract/Invoice Number
Honeywell International, Inc. 1944 E. Sky Harbor Circle Phoenix, AZ 85034 FAA CERTIFICATE #ZN3R030M	892821-001 892821-001

6. Item	7. Description	8. Part Number	9. Eligibility*	10. Quantity	11. Serial / Batch No	12. Status / Work
001	SHAFT ASSY	3822077-4	N/A	000001	S/N N/A TRACE # 07590- 892821-001R	OVERHAULED

13. Remarks

REPAIR ORDER NUMBER: 892821-001
PART HAS BEEN WORKED AND INSPECTED IN ACCORDANCE WITH: MANUAL #: 49-23-49 REVISION: 15
REMARKS: INSP. CHECK /REPAIR, OVERHAUL, STRAIGHTEN, HAND FINISH, F.P.I., VISUAL, METAL SPRAY 1.0296-1.0300 DIA.,MACHINE .9996-1.0000 & 1.0456-1.0462 DIA'S TO SIZE,REPLACE COUPLING,CHASE DAMAGED THREADS.SPM 20-00-02 REV.6.

FOR JAA CUSTOMERS ONLY:
"THIS CERTIFIES THE WORK SPECIFIED IN BLOCK 12/13 WAS CARRIED OUT IN ACCORDANCE WITH JAR 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER JAA ACCEPTANCE CERTIFICATE NUMBER: JAA.4136"

14. Certifies the items identified above were manufactured in conformity to:	19	20. Authorized Signature	21. Approval Certificate No
☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13.	☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.	Charlene K. Hunt	ZN3R030M
15. Authorized Signature	16. Approval/Authorization No:		
17. Name (Typed or Printed)	18. Date (mm/dd/yy):	22. Name (Typed or Printed) CHARLENE K. HUNT	23. Date (mm/dd/yy): 09/06/03

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1 Approving National Aviation Authority / Country	2	3 Form Tracking Number
United States of America	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	Job # 231436

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Aero Propulsion Support, Inc. 108 Mac Drive Harrison, Ohio 45030	P/O # H22367

6 Item	7 Description	8 Part Number	9 Eligibility*	10 Quantity	11 Serial/Batch Number	12 Status/Work
	DESWIRL	3820110-2	N A	01	231436R	Overhauled

13 Remarks
Cleaned
Inc. visual & dimensional inspection
Weld repair
Braze
Dimensional restoration
Weld repair
F P I
Final visual & dimensional inspection

Specifications 49-22-15/AR01

Aero Propulsion Support Certifies that the work specified in block 12 13 was carried out in accordance with FAR 145 and in respect to that work the aircraft component is considered ready for release to service under FAA Acceptance Certificate Number 5233

14 Certifies the items identified above were manufactured in conformity to:

☐ Approved design data and are in a condition for safe operation

☐ Non-approved design data specified in Block 13

19 ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with *Title 14, Code of Federal Regulations*, part 43 and in respect to that work, the items are approved for *return to service*

15 Authorized Signature	16 Approval Authorization No.	20 Authorized Signature	21 Approval Certificate No.
			YCLR908L
17 Name (Typed or Printed)	18 Date (m/d/y)	22 Name (Typed or Printed)	23 Date (m/d/y)
		Brenda Sears	11/11/03

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

FAA Form 8130-3 (10-03)

*Installer must cross-check eligibility with applicable technical data

AERO PROPULSION SUPPORT, INC.

108 MAY DRIVE UNIT A

HARRISON, OHIO 45030

FAA CERTIFILD REPAIR STATION #YULR908L

WORK RELEASE CERTIFICATE

Chromalloy Arizona	NV458
CUSTOMER	**CUSTOMER WORK ORDER**
B22367	DESWIRL
CUSTOMER PURCHASE ORDER	***COMPONENT/UNIT NAME***
Honeywell	231436R
MANUFACTURER NAME	**LOT / SERIAL NUMBER**
3826110-2	1
MANUFACTURER PART NUMBER	**QUANTITY**

COMPONENT/UNIT DETAILS USED IN REPAIR/OVERHAUL/OR MANUFACTURE

QUANTITY:	N/A	**PART #:**	N/A	**DESCRIPTION:**	N/A
	N/A		N/A		N/A

DESCRIPTION OF WORK PERFORMED: Overhauled per the following:

Cleaned
Inc. visual & dimensional inspection
Weld repair
Braze
Dimensional restoration
Weld repair
F.P.I.
Final visual & dimensional inspection

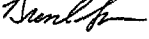
SPECIFICATIONS AND/OR TECHNICAL DATA:

49-22-15 AR01

THE COMPONENT IDENTIFIED HEREON WAS REPAIRED/OR MANUFACTURED AND INSPECTED IN ACCORDANCE WITH CURRENT SPECIFICATIONS. PERTINENT DETAILS OF REPAIR/OR MANUFACTURE ARE ON FILE AT THIS AGENCY UNDER:

CUSTOMER Chromalloy Arizona

APSI JOB NUMBER 231436

SIGNED  **Date:** 11/11/03

1. Approving National Aviation Authority/Country: FAA/UNITED STATES	2. **AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number: 07N3341624 -E1/228071/001

4. Organization: HONEYWELL INTERNATIONAL INC. UNIT 2-4 CHEVRON EATON RD., HEMEL HEMPSTEAD HERTFORDSHIRE HP2 7DR U.K.	Production Approval TSOA	5. Work Order/Contract/Invoice Number: 063060 EUN0228746 PO: B41368

6. Item	7. Description	8. Part Number	9. Eligibility *	10. Qty	11. Serial / Batch Number	12. Status / Work
1	BLANKET INSUL	3826184-5	N/A TSO	1	N/A	NEW

13. Remarks THIS FORM IS ISSUED AT UNIT 2-4 CHEVRON
EATON RD., HEMEL HEMPSTEAD HERTFORDSHIRE HP2 7DR U.K.
AS AUTHORIZED BY THE PRODUCTION APPROVAL HOLDER

SUPPLEMENT EXPORT: UNITED STATES OF AMERICA

ALL SERIALIZATION NOT REFERENCED IN BLOCK 11 OF THIS FORM IS NOT REQUIRED OR TRACEABLE BY HONEYWELL

Limited life parts must be accompanied by maintenance history including total time / total cycles / time since new.

14. Certifies the items identified above were manufactured in conformity to:
[X] Approved design data and are in a condition for safe operation.
[ ] Non-approved design data specified in Block 13.

19. [ ] 14 CFR 43.9 return to service [ ] Other regulation specified in Block 13.

Certifies that unless otherwise specified in Block 13 the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title14, Code of Federal Regulations: part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature	16. Approval/Authorization No.	20. Authorized Signature:	21. Approval/Certificate Number
	ODARF922216NM		
17. Name (typed or printed)	18. Date (mm/dd/yy):	22. Name (typed or printed)	23. Date (mm/dd/yy):
MELVIN J MORGAN	01/06/04		

User / Installer Responsibilities: It is important to understand that the existence of this document alone does not automatically constitute authority to install the part / component / assembly Where the user / installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the Airworthiness Authority of the country specified in block 1. Statements in block 14 and 19 do not constitute certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulation by the user/installer before the aircraft may be flown.

FAA Form 8130-3

*(Optional) Installer must cross check eligibility with applicable technical data.

1 Approving National Aviation Authority (country)	2	3 Form Tracking Number
United States of America	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	Job #: 240024

4 Organization Name and Address	5 Work Order/Contract/Invoice Number
Aero Propulsion Support, Inc. 108 Max Drive Harrison, Ohio 45030	PO 022049

6 Item	7 Description	8 Part Number	9 Eligibility*	10 Quantity	11 Serial/Batch Number	12 Status/Work
	Diffuser Assy, 1 Stage	3826230-1	N/A	01	240024R	Overhauled

13 Remarks

Cleaned
Inc. visual & dimensional inspection
Vane repair

Braze
Stud weld/Proofload
Weld repair

Disassembled
Assembled
Dimensional restoration

Applied coating
FPI
Final visual & dimensional inspection

Specifications DER # ELA-01-2021 Rev. 0

Aero Propulsion Support Certifies that the work specified in block 12 13 was carried out in accordance with JAR 145 and in respect to that work the aircraft component is considered ready for release to service under FAA Acceptance Certificate Number 5233

14 Certifies the items identified above were manufactured in conformity to:

☐ Approved design data and are in a condition for safe operation.

☐ Non-approved design data specified in Block 13

19 ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15 Authorized Signature	16 Approval Authorization No	20 Authorized Signature	21 Approval Certificate No.:
			YTLR968I
17 Name (Typed or Printed)	**18 Date (m/d/y)**	**22 Name (Typed or Printed):**	**23 Date (m/d/y)**
		Brenda Sears	02/06/04

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts, components, assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

FAA Form 8130-3 (6-01)

*Installer must cross-check eligibility with applicable technical data.

AERO PROPULSION SUPPORT, INC.

108 MAY DRIVE UNIT A

HARRISON, OHIO 45030

FAA CERTIFIED REPAIR STATION #YULR908L

WORK RELEASE CERTIFICATE

Chromalloy Arizona	CPS15293
CUSTOMER	**CUSTOMER WORK ORDER**
B22949	Diffuser Assy, 1 Stage
CUSTOMER PURCHASE ORDER	**COMPONENT/UNIT NAME**
Honeywell	240024R
MANUFACTURER NAME	**LOT / SERIAL NUMBER**
3826230-1	1
MANUFACTURER PART NUMBER	**QUANTITY**

COMPONENT/UNIT DETAILS USED IN REPAIR/OVERHAUL/OR MANUFACTURE

QUANTITY:	N/A	**PART #:**	N/A	**DESCRIPTION:**	N/A
	N/A		N/A		N/A

DESCRIPTION OF WORK PERFORMED: Overhauled per the following:

Cleaned
Inc. Visual & dimensional inspection
Vane repair
Braze
Studweld Proofload
Weld repair
Disassembled
Assembled
Dimensional restoration
Applied coating
F.P.I.
Final visual & dimensional inspection

SPECIFICATIONS AND/OR TECHNICAL DATA:

DER # EEA-01-2021 Rev. 0

THE COMPONENT IDENTIFIED HEREON WAS REPAIRED/OR MANUFACTURED AND INSPECTED IN ACCORDANCE WITH CURRENT SPECIFICATIONS. PERTINENT DETAILS OF REPAIR/OR MANUFACTURE ARE ON FILE AT THIS AGENCY UNDER:

CUSTOMER Chromalloy Arizona

APSI JOB NUMBER 240024

SIGNED _____ **Date:** 02/06/04

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	L0400532846

4. Organization Name and Address:		5. Work Order/Contract/Invoice Number:
Honeywell International, Inc. 1944 E. Sky Harbor Circle Phoenix, AZ 85034	PRODUCTION APPROVAL TSOA	H9VG71-G01 B23310 001

6. Item:	7. Description	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial / Batch No:	12. Status / Work:
001	HSG	3810127-1	N/A TSO	000001	N/A. NOTE: (All serialization not referenced here is not required or traceable by HONEYWELL INC. Reference FAA order 8130.21c)	NEW

13. Remarks:

THIS FORM IS ISSUED AT 1944 E. SKY HARBOR CIRCLE PHOENIX, AZ 85034 AS AUTHORIZED BY THE PRODUCTION APPROVAL HOLDER AIRWORTHINESS APPROVAL - PARTS.

14. Certifies the items identified above were manufactured in conformity to:

[X] Approved design data and are in a condition for safe operation.

[ ] Non-approved design data specified in Block 13.

19 [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No:	20. Authorized Signature.	21. Approval/Certificate No:
Susan Blake	ODARF60221GNM		
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
SUSAN BLAKE	03/01/04		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

*Installer must cross-check eligibility with applicable technical data.

NSN 0052-00-012-9005

Chromalloy AZ

ZEISS

Plan Name 3810127--1	Date March 8, 2004	
Drawing No. * drawingno *	Time 10:56:03 am	Order
Operator Master	CMM Q1754 Cal'd: 5/7/2003 Due: 5/7/2004	Incremental Part Number 1

	Actual	Nominal	Upper Tol.	Lower Tol.	Deviation
	Diameter_Datum B 4.6897	4.6894	0.0004	-0.0004	0.0003
	Diameter_H 3.1564	3.1564	0.0004	-0.0004	0.0000
	Diameter_L 1.7157	1.7160	0.0010	-0.0010	-0.0003

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	10004365

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
HONEYWELL INTERNATIONAL - ENGINES, SYSTEMS & SERVICES (TSO) P.O. BOX 52181 PHOENIX, AZ 850722181 c/o HARDWARE PRODUCT GROUP 1405 W. 240TH ST. HARBOR CITY, CA 90710	2773335 001

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	RETAINER BRG	3826160-2	TSO Article N/A	1 EA	Lot# 0309049668 MLot:1039	NEW
				5 EA	Lot# 0309049669 MLot:1039	
		***** CONTINUED *****		11 EA	Lot# 0401017715 MLot:11735	

13. Remarks: EXPORT. DIRECT SHIPMENT AUTHORIZATION.

NV515-1
NV511-1

Customer P.O. # B40256

It is hereby certified that (a) the parts and/or materials reflected herein were produced under Federal Aviation Administration approved manufacturing and quality control systems/methods as set forth in FAA Production Approval to manufacture issued to Honeywell International Inc. and (b) such parts and/or materials are in an airworthy condition. Direct ship authorization from the Production Approval Holder is on file.

14. Certifies the items identifed above were manufactured in conformity to:

- [X] Approved design data and are in a condition for safe operation.
- [ ] Non-approved design data specified in Block 13.

19. [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
Barry E. Franklin	ODARF602216NM		
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
Barry E. Franklin	01/22/04		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

CZ CHROMALLOY AZ

1. Approving National Aviation Authority Country	2.	3. Form Tracking Number
* FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	C401539 - 1

* 4. Organization Name and Address:	5. Work Order/Contract/Invoice Number
Advanced Materials Technologies, Incorporated, 2015 West Alameda Drive Tempe, Arizona 85282, (ZT3R036M)	B23249 RO#

6. Item	7. Description	8. Part Number	9. Eligibility *	10. Quantity	11. Serial/Batch Number	12. Status/Work
1	OIL TUBE ASSY.	3880168-1	N/A	1 EA	N/A / C401539	OVERHAULED

13. REMARKS:

INSPECTED AND OVERHAULED IN ACCORDANCE
WITH UNITED AIRLINES MANUAL
60-49-27-05/AR01, DATED 09/08/97 AND FAA
APPROVED DER ROUTING AMT-1751/97-53.

"CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12/13 WAS CARRIED OUT IN ACCORDANCE WITH JAR 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER JAA ACCEPTANCE CERTIFICATE NUMBER: JAA.4020."

14. Certifies the items identified above were manufactured in conformity to:

☐ Approved Design data and are in a condition for safe operation

☐ Non-Approved Design data specified in Block 13.

19. ☒ 14CFR 43.9 Return to Service ☒ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13 the work in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service

15. Authorized Signature	16. Approval/Authorization No.	20. Authorized Signature	21. Approval/Certificate No:
		Hala Baker	ZT3R036M
17. Name (Typed or Printed)	**18. Date(m/d/y)**	**22. Name (Typed or Printed)**	**23. Date (m/d/y)**
		Hala Baker	3/11/2004

USER / INSTALLER RESPONSIBILITIES:

It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part component assembly.

Where the user installer work in accordance with the national regulations of an Airworthiness Authority different than the Airworthiness Authority of the country specified in block 1, it is essential that the user installer work ensures that his/her Airworthiness Authority accepts parts components assemblies from the Airworthiness Authority of the country specified in block 1.

Statements in block 14 and 19 do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user installer before the aircraft may be flown.

* Installer must cross check eligibility with applicable technical data

1. Approving National Aviation Authority/Country: **FAA/United States**

2. # AUTHORIZED RELEASE CERTIFICATE
FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number: 07N3406083

4. Organization Name and Address:
Honeywell International, Inc.
1944 E. Sky Harbor Circle
Phoenix, AZ 85034

PRODUCTION APPROVAL
TSOA

5. Work Order/Contract/Invoice Number:
AL01092826
B41562

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial / Batch No:	12. Status / Work:
001	SHIELD RTNR OIL INL	3880170-3	N/A TSO	000004	N/A. NOTE: (All serialization not referenced here is not required or traceable by HONEYWELL INC. Reference FAA order 8130.21c)	NEW

13. Remarks:
THIS FORM IS ISSUED AT 1944 E. SKY HARBOR CIRCLE PHOENIX, AZ 85034 AS AUTHORIZED BY THE PRODUCTION APPROVAL HOLDER AIRWORTHINESS APPROVAL - PARTS.

14. Certifies the items identified above were manufactured in conformity to:
- [X] Approved design data and are in a condition for safe operation.
- [ ] Non-approved design data specified in Block 13.

19. [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13
Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature: Dan Baltus

16. Approval/Authorization No: ODARF602216NM

17. Name (Typed or Printed): DAN BALTUS

18. Date (m/d/y): 02/14/04

20. Authorized Signature:

21. Approval/Certificate No:

22. Name (Typed or Printed):

23. Date (m/d/y):

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

*Installer must cross-check eligibility with applicable technical data.

NSN:0052-00-012-9005

1. Approving National Aviation Authority/Country: **FAA/United States**

2. **AUTHORIZED RELEASE CERTIFICATE**
FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number: 07N3287699

4. Organization Name and Address:
Honeywell International, Inc.
1944 E. Sky Harbor Circle
Phoenix, AZ 85034

PRODUCTION APPROVAL
TSCA

5. Work Order/Contract/Invoice Number:
AL01051619
B41007

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial / Batch No:	12. Status / Work:
001	FUEL NOZ	3830054-9	14A TSO	000015	N/A. NOTE: (All serialization not referenced here is not required or traceable by HONEYWELL INC. Reference FAA order 8130.21c)	NEW

13. Remarks:
THIS FORM IS ISSUED AT 1944 E. SKY HARBOR CIRCLE PHOENIX, AZ 85034 AS AUTHORIZED BY THE PRODUCTION APPROVAL HOLDER AIRWORTHINESS APPROVAL - PARTS.

NV511-3

14. Certifies the items identified above were manufactured in conformity to:
[X] Approved design data and are in a condition for safe operation.
[ ] Non-approved design data specified in Block 13.

15. Authorized Signature: Joyce Albers

16. Approval/Authorization No: ODARF602216NM

17. Name (Typed or Printed): JOYCE ALBERS

18. Date (m/d/y): 10/09/03

19. [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13
Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

20. Authorized Signature:

21. Approval/Certificate No:

22. Name (Typed or Printed):

23. Date (m/d/y):

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority *different* than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1. Approving National Aviation Authority Country:	2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number:
FAA/UNITED STATES		96509

4. Organization Name and Address:

Ace Precision Machining Corporation
W146 N5714 Enterprise Ave
Menomonee Falls, WI 53051
FAA Repair Station #QAPR054K

5. Work Order/Contract/Invoice Number:

PO# B22046 Item 2

6. ITEM	7. DESCRIPTION	8. PART NUMBER	9. ELIGIBILITY:*	10. QUANITY:	11. BATCH/SERIAL NUMBER:	12. STATUS/WORK:
1	Heat Shield	3844268-3	N/A	1	96509	Overhaul

13. REMARKS

This Component has been fully repaired and inspected in accordance with current FAA regulations, manufacturers manuals, and work instructions for which this repair station is certified. Pertinent details of the repair are on file at this repair station under the work order indicated above

Auth Doc: 49-24-14/AR01 REV: 09/30/97
Replace bottom ring
Repair per United Airlines requirements

Auth Doc: IRM 49-23-49 REV: 15
Weld repair cracks
Size/straighten

Limited life parts must be accompanied by maintenance history including total time/total cycles/time since new.

14. Certifies the items identified above were manufactured in conformity to:

☐ Approved design data and are in a condition for safe operation.

☐ Non-approved design data specified in Block 13.

19

☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

15. Authorized Signature:	16. Approval/Authorizatoin No.:	20. Authorized Signature:	21. Approval/CertificateNo.:
		Eric Wondolkowski	QAPR054K
17. Name (Typed or Printed)	18. Date (m/d/y)	22. Name (Typed or Printed):	23. Date (m/d/y):
		Eric Wondolkowski	9/23/2003

USER/INSTALLER RESPONSIBILITIES:

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in block 1. Statements in block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	974981-001

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
Honeywell International, Inc. 1944 E. Sky Harbor Circle Phoenix, AZ 85034 FAA CERTIFICATE #ZN3R030M	974981-001 974981-001

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial / Batch No:	12. Status / Work:
001	SEAL ASSY TURB	3844065-2	N/A	000001	S/N N/A TRACE # 03650-3877 R1	OVERHAULED

13. Remarks:

REPAIR ORDER NUMBER: 974981-001
PART HAS BEEN WORKED AND INSPECTED IN ACCORDANCE WITH: MANUAL #: 49-23-49 REVISION: 15
REMARKS: OVERHAUL SEAL ASSY. REPLACE DAMAGED CARBON SEAL.

FOR JAA CUSTOMERS ONLY:
"THIS CERTIFIES THE WORK SPECIFIED IN BLOCK 12/13 WAS CARRIED OUT IN ACCORDANCE WITH JAR 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER JAA ACCEPTANCE CERTIFICATE NUMBER: JAA.4136"

14. Certifies the items identified above were manufactured in conformity to:	19. ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13.	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.	
15. Authorized Signature	16. Approval/Authorization No:	20. Authorized Signature: Lewis Emmitt
		21. Approval/Certificate No: ZN3R030M
17. Name (Typed or Printed):	18. Date (m/d/y):	22. Name (Typed or Printed): LEWIS EMMITT
		23. Date (m/d/y): 02/10/04

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1. Authorized National Aviation Authority	2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number
FAA UNITED STATES		101616

4. Organization Name and Address

Ace Precision Machining Corporation
W146 N5714 Enterprise Ave.
Menomonee Falls, WI 53051
FAA Repair Station #QAPR054K

5. Work Order Contract Invoice Number

PO# B23287 Item 2

6. ITEM	7. DESCRIPTION	8. PART NUMBER	9. ELIGIBILITY*	10. QUANITY	11. BATCH/SERIAL NUMBER	12. STATUS/WORK
1	Support	3844009-1	N/A	1	101616	Overhaul

13. REMARKS

This component has been fully repaired and inspected in accordance with current FAA regulations, manufacturers manuals, and work instructions for which this repair station is certified. Pertinent details of the repair can be found at this repair station under the work order indicated above.

Auth Doc: EA-94-09 **REV: 10/29/01**
Replace top ring

Auth Doc: IRM 49-23-49 **REV: 15**
Inspect per IRM manual requirements

Limited life parts must be accompanied by maintenance history including total time/total cycles/time since new

14. Certifies the items identified above were manufactured in conformity to:

☐ Approved design data and are in a condition for safe operation.

☐ Non-approved design data specified in Block 13

19.

☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 14, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature	16. Approval/Authorization No	20. Authorized Signature	21. Approval/Certificate No:
			QAPR054K
17. Name (Typed or Printed):	18. Date (m/d/y):	22. Name (Typed or Printed): Jason Glocka	23. Date (m/d/y): 3/3/2004

USER/INSTALLER RESPONSIBILITIES:

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in block 1. Statements in block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations to the user/installer before the aircraft may be flown.

FAA Form 8130-3 (6-01) *Installer must cross-check eligibility with applicable technical data. NSN: 0052-00-012-9005

1. Approving National Aviation Authority (Name of State)	2.	3. Form Tracking Number
FAA UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	8F751-972
4. Organization Name and Address	CHROMALLOY ARIZONA 9161 W. Polk Street, Phoenix, AZ 85043	5. Work Order/Contract/Invoice Number 14822

6. Item	7. Description	8. Part Number	9. Eligibility *	10. Quantity	11. Serial/Batch Number	12. Status/Work
1	STAGE 1 TURBINE STATOR SUPPORT	3844007-1	N A	1	[illegible]	Overhauled

13. Remarks

WORK ORDER
The work described in block 12 was performed in accordance with:
IRM 49-23-49 Rev. 15, 09/29/2000
FAA DER APPROVAL No. DER-A089, 06/21/1999

Certifies that the work specified in block 12/13 was carried out in accordance with JAR 145 and with respect to that work the aircraft component is considered ready for release to service under JAA Acceptance Certificate Number: JAA.4325

14. Certified the item identified above were manufactured in conformity to:
[ ] approved design data and are in a condition for safe operation.
[ ] Non-approved design data specified in Block 13

19. [X] 14 CFR 43.9 Return to Service [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished with Title 14, Code of Federal Regulations, part 43 and in respect to the work, the items are approved for return to service.

15. Authorized Signature	16. Approval Authorization No:	20. Authorized Signature	21. Approval/Certificate No
		Patricia J Peterson	TR3D877L
17. Name (Typed or Printed)	**18. Date (mm/dd/yyyy)**	**22. Name (Typed or Printed)**	**23. Date (mm/dd/yyyy)**
		PATRICIA J PETERSON	01/06/2004

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part component assembly.

Where the user installer work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1 it is essential that the user-installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the airworthinessauthorities of the country specified in Block 1.

Statement(s) in Block 14 and 19 do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user installer before the aircraft may be flown.

*Installer must cross check eligibility with applicable technical data

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	L0400532862

4. Organization Name and Address:		5. Work Order/Contract/Invoice Number:
Honeywell International, Inc. 1944 E. Sky Harbor Circle Phoenix, AZ 85034	PRODUCTION APPROVAL TSOA	H9V091-001 B23292 001

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial / Batch No:	12. Status / Work:
001	SHROUD	3844008-1	N/A TSO	000001	N/A. NOTE: (All serialization not referenced here is not required or traceable by HONEYWELL INC. Reference FAA order 8130.21c)	NEW

13. Remarks:

THIS FORM IS ISSUED AT 1944 E. SKY HARBOR CIRCLE PHOENIX, AZ 85034 AS AUTHORIZED BY THE PRODUCTION APPROVAL HOLDER AIRWORTHINESS APPROVAL - PARTS.

14. Certifies the items identified above were manufactured in conformity to:

[X] Approved design data and are in a condition for safe operation.

[ ] Non-approved design data specified in Block 13.

19. [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No:	20. Authorized Signature:	21. Approval/Certificate No:
Susan Blake	ODARF602216NM		
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
SUSAN BLAKE	03/02/04		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

*Installer must cross-check eligibility with applicable technical data.

1. Appoving National Aviation Authority/Country: FAA/UNITED STATES	2. **AUTHORIZED RELEASE CERTIFICATE** FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number: B 22009
4. Organization Name and Address: Metal Fusion Inc. 425 Burlingame Avenue Redwood City, CA 94063		5. Work Order, Contract, or Invoice Number: INV 2316

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	strl	3844052-2	331.APM	1	NV 402	repair

13. Remarks

Part repaired per all FAA requirements
Also repaired + tested to meet
UAL spec 49-22-17/AR03,
MF 60-49-23-49-R1

14. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13		19. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.	
15. Authorized Signature:	16. Approval Authorization No:	20. Authorized Signature:	21. Approval/Certificate No: CG-3R422L
17. Name (Typed or Printed):	18. Date (m/d/y):	22. Name (Typed or Printed): T Carrick	23. Date (m/d/y): 9-12-3

User/Installer Responsibilities

It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1 it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulation by the user/installer before the aircraft may be flown.

* Installer must cross check eligibility with applicable technical data

FROM:

METAL FUSION, INC.
425 Hurlingame Ave.
REDWOOD CITY, CA 94063
FAA Repair Station #CG3R422L
(650) 368-7692 Fax (650) 368-7691

INVOICE

2316

INVOICE DATE	SALESPERSON
BILL TO:	

SHIP TO:

QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL

COPY

Thank You

265-0333

431954

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	P/S NUMBER 8999
4. Organization Name and Address: COOK AIRTOMIC DIVISION (PQ2681CE-D) 2540 CENTENNIAL BLVD. JEFFERSONVILLE, INDIANA 47130		5.Work Order/Contract/Invoice Number: CONTRACT NUMBER SJ3NRY5

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1-1	PISTON RING	AIR22389	GTCP331-200A, AC, ER, 250F, H.	18	N/A	NEW

13. Remarks:

DOMESTIC ONLY

P.O. B41649

FAA-PMA

14. Certifies the items identified above were manufactured in conformity to:	19. ☐ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13
☒ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13.	Certifies that unless otherwise specified in block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
	DMIR CE500515		
17. Name (Typed or Printed):	18. Date (m/d/y):	22. Name (Typed or Printed):	23. Date (m/d/y):
JEROME D. BYE	02/24/04		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

FAA Form 8130-3 (6-01) *Installer must cross-check eligibility with applicable technical data. NSN: 0052-00-012-9005

Wencor Document #: 431954 Invoice #: 7898471 Your P.O. #: B41649

UNITED AIRLINES
E74 CMM INSPECTION

T&M60-492201 GTCP331 COMPRESSOR INLET HOUSING ASSY
MEASURED PER EID 49-22-01 INSP 00 JAN 30/97

ALWAYS REFER TO THE SPECIFICATION TO VERIFY TOLERANCES

OPERATOR NAME: PAUL FREVELE
IGT NUMBER: 671125
PART NUMBER: 3810259-3
SERIAL NUMBER: NONE

(in)	ACTUAL	NOMINAL	LO-TOL	HI-TOL	DEVIATION	GRAPHIC	ERROR
H(1) DIAMETER B							
CIRCLE:DIA_B							
Diameter	14.2291	14.2280	-0.0020	+0.0020	0.0011	--+-*-	
H(2) DIAMETER H							
CIRCLE:DIA_H							
Diameter	4.6905	4.6920	-0.0020	+0.0020	-0.0015	*-+---	
H(3) DIAMETER K							
A)							
CIRCLE:DIA_K							
Diameter	15.8667	15.8680	-0.0020	+0.0020	-0.0013	*-+---	
B)							
UNABLE TO MEASURE RUNOUT ON THE CMM.							
CIRCLE:DIA_K							
Concentricity	0.0015	0.0050,FA(ALIGN_B)				+*--	
H(4) DIAMETER N							
A)							
CIRCLE:DIA_N							
Diameter	12.2241	12.2260	-0.0020	+0.0020	-0.0019	*--+---	
B)							
UNABLE TO MEASURE RUNOUT ON THE CMM.							
CIRCLE:DIA_N							
Concentricity	0.0010	0.0050,FA(ALIGN_B)				+*--	
H(5) SURFACE A							

(in)	ACTUAL	NOMINAL	LO-TOL	HI-TOL	DEVIATION GRAPHIC	ERROR
PLANE:SURF_A						
Flatness	0.0015	0.0050			+*--	

Duration 47 mins 1 secs PASS in:7 out:0 End of Report

UNITED

PSEN446A-2
03/09/04
COAS BY SUBASSEMBLY

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
COA SCHEDULING REPORT
REASON: REMOVAL

REQUESTOR NAME: REMOVAL
ORGANIZATION:

WORK CENTER: 551

SERIAL NBR	ET	MT	NAME	PWR RTG	CUST
61913		V	APU331	200E	UA

ORDER
NUMBER
V518

COAS FOR MODULE TYPE N - SERIAL NUMBER P1375 MODULE NAME. POWER SECTION WORK CENTER: 551

COA NUMBER	COA CAT	MODULE/ FUNC NBR	UNIT SERIAL	UNIT COA STATUS	ISS	COMP	COA TITLE	COMPLETION DATE

*** NO COAS SCHEDULED FOR THIS UNIT ***

UNITED AIRLINES - MASTER ICS/BOM

Origination Date 3/12/2004

Effectivity 331-200ER APU Engine Manual - Inspection and Condition Sheet

TURBINE SCAVENGE OIL PUMP MODULE "SV" ALL PARTS CONTAINED WITHIN ARE NON HAZMAT

60-49-90-05-01 ICS

EON V518 ESN 61913 VADE # CUSTOMER UAL

MODULE ORDER # SV518

MODULE SERIAL #

DISPOSITION CODES:

E =	PART MEETS DETAIL PART EID REQUIREMENTS (ZERO TIME SINCE DETAIL PART INSPECTION)
A =	EXPOSED AREA OF PART MEETS VISUAL REQUIREMENTS OF APPROPRIATE EID (CONTINUED TIME SINCE DETAIL PARTS INSPECTION)
C =	PART ROUTED OR CORRECTIVE ACTION TAKEN
ATA# ___ = Function No.	EID NUMBER [49 precedes numbers shown) 49) 31-XX] SECTION / LIST - SEQUENCE NUMBER
EPM ___ = Function No.	STAMP TO INDICATE THAT PART HAS BEEN OFFLOGGED FROM MODULE FUNCTION NUMBER

INSPECTION NOTES

(STAMP OFF APPROPRIATE DISPOSITION CODE. MORE THAN ONE CODE MAY BE STAMPED.)
(INDICATE CONDITION OF UNSERVICEABLE PARTS REGARDLESS OF CONDITION.)
(TO CLEAR PARTS NOT EXPOSED DRAW A LINE THROUGH THE COMPLETE ENTRY AND STAMP IN LEFT MARGIN.)
(IF PART IS ROUTED ON AN R & R TAG IT IS MANDATORY TO STAMP THE APPLICABLE "E" "A" OR "C" BLOCK AND WRITE R & R IN THE "C" BLOCK THEN COMPLETE THE APPROPRIATE COMPUTER TRANSACTION.)
(ALL PARTS NEEDING REPAIR WILL HAVE AN IDENTIFICATION TAG WITH PART NUMBER, SERIAL NUMBER (IF APPLICABLE) AND THE QUANTITY, ATTACHED TO THE PART.)
(PARTS THAT DO NOT HAVE SPECIFIC EID'S WRITTEN FOR THEM MUST BE VISUALLY INSPECTED FOR GENERAL CONDITION PER 331-500 BOOK "0" 20-49-00-00, INTRODUCTION, SECTION 4, PARA A, STATEMENT 4.

MODULE INSPECTION GUIDE

(1) Module seperated from adjoining modules, inspected and found serviceable per EID 60-49-21-00-00 [ZERO (TSMI) No parts removed from module. No additional sign-off required.

I209A (2) Module partially or completely disassembled. Removed parts and / or exposed areas inspected per appropriate EID (ZERO TSDPI).

Control Date: 20031202

Turbine Scavenge Oil Pump "SV " mod/ I & C Sheet page 2 of 5 **Revision Date** 3/17/2004 **Name** [redacted]

						CAZ SHIP TO DATE	CAZ RET DATE	MODULE ORDER #
APU S/N	61913	TSLV	06075	EON	V518			SV518
Total Time	18599	CSLV	06550	P.O.	S306133			MODULE SERIAL #
Total Cycles	20796			Date Rcvd.	03/09/04			

Inspection Use Only					Hardware Info					Stores Use			
E	A	C	OFF-LOG FUNC #	COND/ROUTING	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
I209A			5784		SHAFT DRIVE (SV)	692225	265-0157	90-05-05 55-70	1		0		
I209A			5782		RETAINER ROTOR (SV)	692231	265-0158	90-05-04 55-50	1				
I209A			5785		GEAR SPUR (SV)	3881106-1	265-0144	90-05-05 55-80	1		0		
I209A			5779		HSG ASSY/ THICK (SV)	3881105-1	265-3199	90-05-02 55-020	1				
I209A			5780		ROTOR SET/THICK (SV)	3881149-1	265-3358	90-05-03 55-030	1				
		I209A	5779	NOTE TO CAZ:REPAIR THIS PART ONLY. DO NOT PROCURE NEW. REPLACE WITH THICK.	HSG ASSY/ THIN (SV)	3880161-1	265-3327	90-05-02 55-020	1		1		
I209A			5780	NOTE TO CAZ:REPAIR THIS PART ONLY. DO NOT PROCURE NEW. REPLACE WITH THICK.	ROTOR SET/ THIN (SV)	3881149-2	265-0159	90-05-03 55-030	1				
I209A			5781		PLATE COVER (SV)	3881150-1	265-0156	90-05-04 55-040	1				

331-200ER "SV" MODULE

NON EID PARTS BILL OF MATERIAL PARTS ONLY

EFF 331-200ER

APU S/N	61913	EON	V518
		P.O.	S306133

CAZ SHIP TO DATE

CAZ RET DATE

MODULE ORDER # SV518

MODULE SERIAL #

Hardware information							Stores Use			
COMMENT	IPC LOCATION	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
100% ROUTE TO CAZ										

HISTORY PAGE

CAZ Qty Total =

ENTER REASON FOR REVISION

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	34825

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
Ohlinger Industries, Incorporated 1211 West Melinda Lane, Phoenix, AZ 85027 FAA Repair Station No. OHRR712K	B23109

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work
1	HOUSING PUMP SCR.	3881105-1	N/A	1	SN: N/A LN712K-034825R	OVERHAULED

13. Remarks: FPI. R-R DISCREPANT HARDWARE: 49-90-05/AR01 AND AR02

WORK ACCOMPLISHED PER HONEYWELL MANUAL 49-23-49 REV. 15. SERVICE BULLETIN N/A. WORK ORDER, 34825
WORK ACCOMPLISHED AND/OR SUPERVISED BY: JIM DAVIS
OHLINGER INDUSTRIES INC CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12 AND 13 WAS PERFORMED IN ACCORDANCE WITH JAR 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER JAA ACCEPTANCE CERTIFICATE NUMBER 4708

14. Certifies the items identified above were manufactured in conformity to:	19. ☒ 14 CFR 43.9 Return To Service ☒ Other Regulation Specified in Block 13
☐ Approved design data and are in condition for safe operation. ☐ Non-approved design data specified in block 13.	Certifies that unless otherwise specified in block 13, the work identified in block 12 and described in block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
		Ruben G Martinez	OHRR712K
17. Name (typed or printed):	**18. Date:**	**22. Name (typed or printed):**	**23. Date:**
		RUBEN G. MARTINEZ	02/13/04

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in block 1.

Statements in block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

* Installer must cross check eligibility with applicable technical data

UNITED AIRLINES - MASTER ICS/BOM

Effectivity 331-200ER APU Engine Manual - Inspection and Condition Sheet

Origination Date: 3/12/2004

GEARBOX MODULE "AV " ALL PARTS CONTAINED WITHIN ARE NON HAZMAT

60-49-26-01-00 ICS

MODULE ORDER # AV518

MODULE SERIAL # P698

EON V518 | ESN 61913 | VADE # | CUSTOMER UAL

DISPOSITION CODES:

E =	PART MEETS DETAIL PART EID REQUIREMENTS (ZERO TIME SINCE DETAIL PART INSPECTION)
A =	EXPOSED AREA OF PART MEETS VISUAL REQUIREMENTS OF APPROPRIATE EID (CONTINUED TIME SINCE DETAIL PARTS INSPECTION)
C =	PART ROUTED OR CORRECTIVE ACTION TAKEN
ATA# = S/L - SEQ	EID NUMBER [49 precedes numbers shown (49) 31-XX] SECTION / LIST - SEQUENCE NUMBER
EPM = FUNC #	STAMP TO INDICATE PART OFF-LOG FROM MODULE FUNCTION NUMBER

INSPECTION NOTES

(STAMP OFF APPROPRIATE DISPOSITION CODE. MORE THAN ONE CODE MAY BE STAMPED.)
(INDICATE CONDITION OF UNSERVICEABLE PARTS REGARDLESS OF CONDITION.)
(TO CLEAR PARTS NOT EXPOSED DRAW A LINE THROUGH THE COMPLETE ENTRY AND STAMP IN LEFT MARGIN.)
(IF PART IS ROUTED ON AN R & R TAG IT IS MANDATORY TO STAMP THE APPLICABLE "E" "A" OR "C" BLOCK AND WRITE R & R IN THE "C" BLOCK THEN COMPLETE THE APPROPRIATE COMPUTER TRANSACTION.)
(ALL PARTS NEEDING REPAIR WILL HAVE AN IDENTIFICATION TAG WITH PART NUMBER, SERIAL NUMBER (IF APPLICABLE) AND THE QUANTITY, ATTACHED TO THE PART.)
(PARTS THAT DO NOT HAVE SPECIFIC EID'S WRITTEN FOR THEM MUST BE VISUALLY INSPECTED FOR GENERAL CONDITION PER 331-500 BOOK "0" 20-49-00-00, INTRODUCTION, SECTION 4, PARA A, STATEMENT 4.

MODULE INSPECTION GUIDE

(1) Module seperated from adjoining modules, inspected and found serviceable per EID 60-49-21-00-00 [ZERO (TSMI) No parts removed from module. No additional sign-off required.

(2) Module partially or completely disassembled. Removed parts and / or exposed areas inspected per appropriate EID (ZERO TSDPI).

Control Date: 20031203

Gearbox mod "AV " I & C Sheet page 2 of 7 **Revision Date** 3/12/2004 **Name** [redacted]

APU S/N	61913	TSLV	06075	EON	V518
Total Time	18599	CSLV	06550	P.O.	S306133
Total Cycles	20796			Date Rcvd.	03/09/04

CAZ SHIP TO DATE | CAZ RET DATE

MODULE ORDER # AV518

MODULE SERIAL # P698

Inspection Use Only					Hardware Info					Stores Use			
E	A	C	OFF-LOG FUNC #		Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
			5642	100%	BEARING FAN IDLER	358024	245-0395	26-00-01 01-410	2		2		
			5643	100%	BEARING OIL PUMP	358027	245-0397	26-00-01 01-420	2		2		
			5644	100%	BEARING HI SPEED PINION	3860158-1	265-0258	26-00-01 01-430	2		2		
			5645	100%	BEARING GEN IDLER	3860173-1	265-0263	26-00-01 01-440	2		2		
			5646	100%	BEARING ROLLER GEN	3605094-1	265-4339	26-00-01 01-450	2		2		
			5647	100%	BEARING IDLER	358457-1	245-0399	26-00-01 01-460	2		2		
			9267	100%	BEARING BALL OUTER RACE	3860496-1	265-3161	26-00-01 01-490	1		1		
			EPM 0987	SPUN BEARINGS	HOUSING ASSY	3862699-3	265-3164	26-02-00 01-300	1		1		
			EPM 0987		~~HOUSING ASSY~~	~~3862219-7~~	~~265-0499~~	~~26-02-00 01-300~~	1				
			2233		GEAR ASSY OIL PUMP	3860165-2	265-0260	26-03-00 01-120	1				
			2230		GEAR GENERATOR IDLE	3860181-1	265-0265	26-04-00 01-160	1				
			2229		GEAR ASSY SPUR	3860182-2	265-3080	26-05-00 01-130	1				
			2231		GEARSHAFT GEN DRIVE	3860180-6	265-0264	26-06-00 01-200	1				
			2237		GEAR FAN IDLER	3860169-5	265-0120	26-08-00 01-140	1				
			5637		JET OIL	3862187-1	265-0136	26-10-00 01-250	1				
			5628		TUBE	3613699-1	265-3171	26-11-00 01-080	1				
			5636		TUBE	3862182-1	265-0135	26-11-00 01-240	1				

Gearbox mod "AV" I & C Sheet page 3 of 7

APU S/N	61913	EON	V518
		P.O.	S306133

CAZ SHIP TO DATE

CAZ RET DATE

MODULE ORDER # AV518

MODULE SERIAL # P698

Inspection Use Only					Hardware Info					Stores Use			
E	A	C	OFF-LOG FUNC #	COND/ROUTING	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
			5627		TUBE	3862185-3	265-0496	26-11-00 01-070	1				
			5638		TUBE	3862550-1	265-0137	26-12-00 01-260	1				
I342			5625		JET	3862444-2	265-3057	26-13-00 01-050	1				
I342			5624	DO NOT SHIP TO CAZ-UAL STOCKED	JET	3862140-5	265-0273	26-13-00 01-040	1				
I342			5626	DO NOT SHIP TO CAZ-UAL STOCKED	JET	3862140-4	265-0272	26-13-00 01-060	1				
			5633		TUBE TRANSFER	3862226-4	265-0501	26-14-00 01-210	1				
			2232		GEAR HI SPEED PINION	3860166-1	265-0261	26-16-00 01-150	1				
I342			5622		HOUSING FILLER	3862385-1	265-3192	26-21-00 01-020	1				
			5788		HOUSING GEN SCAVENGE	3880205-3	265-0313	90-02-01 60-000	1				
			5791	SPALLED	GEAR SPUR	3880204-2	265-3139	90-02-03 60-030	1		1		
			5792	WORN	GEARSHAFT	3880326-10	265-3076	90-02-03 60-040	1		1		
			5793	WORN	GEARSHAFT	3880326-11	265-3077	90-02-03 60-050	1		1		

Gearbox mod "AV " I & C Sheet page 4 of 7 **(LV PARTS)**

APU S/N	61913	EON	V518
		P.O.	S306133

CAZ SHIP TO DATE

CAZ RET DATE

MODULE ORDER # AV518

MODULE SERIAL # P698

Inspection Use Only					Hardware Info					Stores Use			
E	A	C	OFF-LOG FUNC #	COND/ROUTING	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
			5641		~~BEARING BALL~~ STRTR GEAR (LV)	3860160-1	265-0259	26-00-01 / 05-020	1		1		
			9266		BEARING INNER RACE (LV)	3860495-1	265-3155	26-00-01 / 05-030	1		1		
			5649		BEARING BALL (LV)	892576-1	265-3646	26-00-01 / 05-050	1		1		
			5648		BEARING BALL SPLINED SHFT (LV)	3614423-1	265-0598	26-00-01 / 05-090	1		1		
			5634		GEAR (LV) STARTER DRIVE	~~3860168-2~~	265-3058	26-07-00 / 05-040	1				
			5640		CLUTCH ONE-WAY (LV)	3611304-1	265-3090	26-07-01 / 05-080	1		1		
			5639		PLUG (LV) STARTER DRIVE	3600053-1	285-0429	26-07-02 / 05-050	1				
			5635		SHAFT SPLINE (LV)	3868023-1	265-3091	26-07-03 / 05-070	1				
			5635		SHAFT SPLINE (LV)	DEC31-041 -501	265-3091	26-07-03 / 05-070	1				
			5706		~~ADAPTER STRTR~~ CLUTCH ASSY (LV)	3612120-1	265-3154	26-07-04 / 05-010	1				
				DISASSEMBLE	LRU CLUTCH ASSY	3612844-1	265-3153		1				

NON EID PARTS BILL OF MATERIAL PARTS ONLY

331-200ER "AV" MODULE

EFF 331-200ER

Gearbox mod "AV " I & C Sheet page 6 of 7

APU S/N	61913	EON	V518
		P.O.	S306133

CAZ SHIP TO DATE

CAZ RET DATE

MODULE ORDER # AV518

MODULE SERIAL # P698

Hardware Info

COMMENT	IPC LOCATION	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	Stores Use: UAL QTY	Stores Use: CAZ QTY	Stores Use: UAL/CAZ INITIAL	Stores Use: UAL RECV
	49-11-01A-001A-402	WASHER SPRING	352723-10	285-0131		1				
WORN	49-26-00A-000C-090	WASHER SPRING	352723-53	265-0416		1		1		
	49-26-00A-000D-096	AIR OIL SEPARATOR	3610862-1	265-3086		1				
100% REPLACEMENT	49-26-00A-000A-190	WASHER TENSION	3610875-2	265-3653		1		1		
	49-26-00A-000C-050	RETAINER	3612363-1	265-3162		1				
	49-26-00A-000C-080	RETAINER	3862133-1	265-0267		1				
	49-26-00A-000C-030	RETAINER	3862135-1	265-0268		1				
	49-26-00A-000C-020	RETAINER	3862136-1	265-0269		1				
	49-26-00A-000C-070	RETAINER	3862183-1	265-0281		1				
	49-26-00A-000B-060	RETAINER	3862184-1	265-0282		1				
	49-26-00-001-110	CAP & ADAPTER	428-259	265-3602		1				
100%	49-90-00A-000B-130	SEAL ASSY ENCASED	3880267-1	265-0319		1		1		
		PLUG MAG	P201	265-0338		2				

HISTORY PAGE

CAZ Qty Total =

ENTER REASON FOR REVISION

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	34267

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
Ohlinger Industries, Incorporated 1211 West Melinda Lane, Phoenix, AZ 85027 FAA Repair Station No. OHRR712K	B22670

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work
1	HSNG. ASSY. GEARBOX	3862699-3	N/A	1	SET 1L-2034	OVERHAULED

13. Remarks: FPI, R-R DISCREPANT HARDWARE DER 712K00-022 DATED 11/17/00
SLEEVE DISCREPANT P/M BORES, CHEMFILM
WELD, METAL SPRAY

WORK ACCOMPLISHED PER HONEYWELL MANUAL 49-23-49 REV. 15, 49-26-02/AR02 SERVICE BULLETIN N/A, WORK ORDER, 34267
WORK ACCOMPLISHED AND/OR SUPERVISED BY: JIM DAVIS
OHLINGER INDUSTRIES INC CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 12 AND 13 WAS PERFORMED IN ACCORDANCE WITH JAR 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER JAA ACCEPTANCE CERTIFICATE NUMBER 4708.

14. Certifies the items identified above were manufactured in conformity to:

☐ Approved design data and are in condition for safe operation.

☐ Non-approved design data specified in block 13.

19. ☒ 14 CFR 43.9 Return To Service ☒ Other Regulation Specified in Block 13

Certifies that unless otherwise specified in block 13, the work identified in block 12 and described in block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
		Ruben G Martinez	OHRR712K
17. Name (typed or printed):	**18. Date:**	**22. Name (typed or printed):**	**23. Date:**
		RUBEN G. MARTINEZ	12/17/03

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in block 1.

Statements in block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1 Approving National Aviation Authority
FAA/United States

2

AUTHORIZED RELEASE CERTIFICATE
FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3 Form Tracking Number

4 Organization Name and Address

5 Work Order/Contract/Invoice Number

6 Item	7 Description	8 Part Number	9 Quantity	10 Status/Work	11 Serial Number	12 Remarks
1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

13 Remarks

[illegible] DIRECT SHIPMENT AUTHORIZED.

Customer P.O. # B-1130.

It is hereby certified that all parts and/or materials received herein were produced under Federal Aviation Administration approved manufacturing and quality control systems as set forth in Part Production Approval for manufacture issued to Honeywell International Inc. and all such parts and/or materials are in an airworthy condition. Direct ship authorization from the Production Approval Holder on file.

14 Certifies that the work identified in item 11 was performed in accordance with the:

☒ Approved design data and is in a condition for safe operation.

☐ Maintenance and/or alterations performed - Block 15.

15 ☐ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 15

Certified items in new condition identified in Block 11 and work identified in Block 12 was performed in accordance with 14 CFR Part 43. Except for deviations listed in Block 15 and except as noted in Block 12, the work was approved for return to service.

16 Authorized Signature

17 Name (Typed or Printed)

Barry E. Frank [illegible]

18 Approval Authorization No.

[illegible]6003F

19 Date (mm/dd/yy)

[illegible]

20 Authorized Signature

21 Name (Typed or Printed)

22 Date (mm/dd/yy)

23 Approval Certificate No.

User/Installer Responsibilities

It is important to understand that the certification block on this document alone does not automatically constitute authority to install the part in an aircraft.

Where the user/installer performs work in accordance with the operational regulations of the airworthiness authority of the country specified in Block 1, it is the responsibility of the user/installer to ensure that the work has been approved for release to service by an authorized person and that this release to service is acceptable to the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 15 do not constitute installation certification. In all cases, the ultimate responsibility for the acceptability of the installation and certification rests with the user/installer before the aircraft is returned to flight.

FAA form 8130-3 (6-01) Installer must retain original or legible copy of this document for a minimum of two years. NSN 0052-00-018-9020

1. Approving National Aviation Authority/Country: FAA/United States

2

AUTHORIZED RELEASE CERTIFICATE

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3 Form Tracking Number: 8112290

4 Organization Name and Address: HONEYWELL INTERNATIONAL ENGINES, [illegible] (7500)
P.O. BOX 101
PHOENIX, AZ 85001-2181
C/O HANDMADE PRODUCTS (MSM)
1445 W. 154TH ST.
GARDENA, CA 90249

5 Work Order/Contract/Invoice Number: 2613798 005

6 Item	7 Description	8 Part Number	9 Eligibility*	10 Quantity	11 Serial/Batch Number	12 Status/Work
1	BEARING	3B3027	10A Article N/A	1 Ea.	Batch: 2130351-10 12 per kit 1221	NEW
		****** L A S T I T E M ******				

13 Remarks: IMPORT. DIRECT SHIPMENT AUTHORIZATION.

Customer P.O. # 841102

It is hereby certified that (a) the parts and/or materials reflected herein were produced under Federal Aviation Administration approved manufacturing and quality control systems/methods as set forth in FAA Production Approval to manufacture issued to Honeywell International Inc. and (b) such parts and/or materials are in an airworthy condition. Direct ship authorization from the Production Approval Holder is on file.

14 Certifies that items identified above were manufactured in conformity to:
- [X] Approved design data and are in a condition for safe operation
- [ ] Non-approved design data specified in Block 13

19 [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13

Certifies except as otherwise specified in Block 13 the work identified in Block 11 and described in Block 13 was accomplished in accordance with Title 14 "Code of Federal Regulations, part 145 as to that work the items are approved for return to service.

15 Authorized Signature: Barry E. Franklin

16 Approval/Authorization No: ODAR#60221-NM

17 Name (Typed or Printed): Barry E. Franklin

18 Date (m/d/y): 10/27/03

20 Authorized Signature

21 Approval/Certificate No.

22 Name (Typed or Printed)

23 Date (m/d/y)

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness different than the airworthiness authority of the country specified in Block 3, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

FAA form 8130-3 (6-01)

*Installer must cross-check eligibility with applicable technical data.

NSN 0052-00-160-0002

1. Approving National Aviation Authority/Country	2.	3. From Tracking Number:
FAA/United States	**AIRWORTHINESS RELEASE CERTIFICATE** FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	60 86840

4. Organizations Name and Address:	4. Work Order/Contract/ Invoice Number:
Timken Aerospace Services (PBC), 336 Mechanic Street, Lebanon NH 03766 (USA)	8005426/B23331

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10 Quantity:	11. Serial/Batch Number:	12 Status/Work:
1	BEARING	3605094-1	N/A	ONE	UA04 S1998-222	Overhauled

13. REMARKS:

Work was performed in accordance with: TAS RSUAL 49-20-01/AR02

14. Certifies the items identified above were manufactured in conformity to:	19. ☒ 14 CFR 43.9 Return to Service Other regulation specified in Block 13
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies, that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature	16. Approval/Authorization No.	20. Authorized Signature:	21. Certificate Number:
		RJ Barnum	QPBR408K
17. Name (typed or printed)	18. Date (m/d/yy)	22. Name (typed or printed): RJ Barnum	23. Date (m/d/yy) March 8, 2004

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with national regulations by the user/installer before the aircraft may be flow.

1. Approving National Aviation Authority/Country	2.	3. From Tracking Number:
FAA/United States	**AIRWORTHINESS RELEASE CERTIFICATE** FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	60 86843

4. Organizations Name and Address:	4. Work Order/Contract/ Invoice Number:
Timken Aerospace Services (PBC), 336 Mechanic Street, Lebanon NH 03766 (USA)	8005426/B23408

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10 Quantity:	11. Serial/Batch Number:	12 Status/Work:
1	BEARING	3605094-1	N/A	ONE	UA04 S1998-223	Overhauled

13. REMARKS:

Work was performed in accordance with: TAS RSUAL 49-20-01/AR02

14. Certifies the items identified above were manufactured in conformity to:	19. ☒ 14 CFR 43.9 Return to Service Other regulation specified in Block 13
☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13	Certifies, that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No:	20. Authorized Signature:	21. Certificate Number:
		RJ Barnum	QPBR408K
17. Name (typed or printed):	18. Date (m/d/yy)	22. Name (typed or printed): RJ Barnum	23. Date (m/d/yy) March 10, 2004

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with national regulations by the user/installer before the aircraft may be flow.

B41244

1. Approving National Aviation Authority/Country:	2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number:
FAA/United States		845705

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
HONEYWELL INTERNATIONAL - ENGINES, SYSTEMS & SERVICES (TSO) P.O. BOX 52181 PHOENIX, AZ 85072181 c/o HARDWARE PRODUCT GROUP 1405 W. 240TH ST. HARBOR CITY, CA 90710	2681064 003

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	BEARING	358457-1	TSO Article N/A	1 EA	Lot# 0311015509 MLot:PS. 021430	NEW
				7 EA	Lot# 0311027576 MLot:PS. 021457	
		****** L A S T I T E M ******				

13. Remarks: EXPORT. DIRECT SHIPMENT AUTHORIZATION. NV504-1

Customer P.O. # B41244

It is hereby certified that (a) the parts and/or materials reflected herein were produced under Federal Aviation Administration approved manufacturing and quality control systems/methods as set forth in FAA Production Approval to manufacture issued to Honeywell International Inc. and (b) such parts and/or materials are in an airworthy condition. Direct ship authorization from the Production Approval Holder is on file.

14. Certifies the items identified above were manufactured in conformity to:

[X] Approved design data and are in a condition for safe operation.

[ ] Non-approved design data specified in Block 13.

19. [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
Barry E. Franklin	ODARF602216NM		
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
Barry E. Franklin	12/01/03		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

B41244

1. Approving National Aviation Authority/Country:	2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number:
FAA/United States		845705

4. Organization Name and Address: HONEYWELL INTERNATIONAL - ENGINES, SYSTEMS & SERVICES (TSO)
P.O. BOX 52181
PHOENIX, AZ 850722181
c/o HARDWARE PRODUCT GROUP
1405 W. 240TH ST.
HARBOR CITY, CA 90710

5. Work Order/Contract/Invoice Number: 2681064 003

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	BEARING	358457-1	TSO Article N/A	1 EA 7 EA	Lot# 0311015509 MLot:PS. 021430 Lot# 0311027576 MLot:PS. 021457	NEW
		****** LAST ITEM ******				

13. Remarks: EXPORT. DIRECT SHIPMENT AUTHORIZATION. NV504-1

Customer P.O. # B41244
It is hereby certified that (a) the parts and/or materials reflected herein were produced under Federal Aviation Administration approved manufacturing and quality control systems/methods as set forth in FAA Production Approval to manufacture issued to Honeywell International Inc. and (b) such parts and/or materials are in an airworthy condition. Direct ship authorization from the Production Approval Holder is on file.

14. Certifies the items identifed above were manufactured in conformity to:
- [X] Approved design data and are in a condition for safe operation.
- [ ] Non-approved design data specified in Block 13.

15. Authorized Signature:	16. Approval/Authorization No.:	17. Name (Typed or Printed):	18. Date (m/d/y):
Barry E. Franklin	ODARF602216NM	Barry E. Franklin	12/01/03

19. [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13
Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

20. Authorized Signature:	21. Approval/Certificate No.:	22. Name (Typed or Printed):	23. Date (m/d/y):

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1. Approving National Aviation Authority/Country:	2. **AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number:
FAA/United States		10019402

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
HONEYWELL INTERNATIONAL - ENGINES, SYSTEMS & SERVICES (TSO) P.O. BOX 52181 PHOENIX, AZ 850722181 c/o HARDWARE PRODUCT GROUP 1405 W. 240TH ST. HARBOR CITY, CA 90710	2853639 001

6. Item	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	BEARING	368024	TSO Article N/A	4 EA	Lot# 0402022021 MLot:60491672	NEW
		****** LAST ITEM ******				

13. Remarks: EXPORT. DIRECT SHIPMENT AUTHORIZATION. 40511-2

Customer P.O. # B41654
It is hereby certified that (a) the parts and/or materials reflected herein were produced under Federal Aviation Administration approved manufacturing and quality control systems/methods as set forth in FAA Production Approval to manufacture issued to Honeywell International Inc. and (b) such parts and/or materials are in an airworthy condition. Direct ship authorization from the Production Approval Holder is on file.

14. Certifies the items identifed above were manufactured in conformity to:

[X] Approved design data and are in a condition for safe operation.

[ ] Non-approved design data specified in Block 13.

19. [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
Barry E. Franklin	GDARF602216NM		
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
Barry E. Franklin	02/24/04		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

*Installer must cross-check eligibility with applicable technical data.

NSN:0052-00-012-9005

Honeywell

HONEYWELL
HARDWARE PRODUCT GROUP
1405 W 240TH ST
HARBOR CITY, CA 90710

REFERENCE NO. 7046664 PAGE 1

PURCHASE ORDER NO B41654

CERTIFICATE OF CONFORMANCE

CUSTOMER CODE 3281

CUSTOMER RELEASE NO

SOLD TO:
CHROMALLOY ARIZONA
ATTN: ACCOUNTS PAYABLE
5161 W. POLK STREET
PHOENIX AZ 85043

SHIP TO:
CHROMALLOY ARIZONA
ATTN: RECEIVING
5150 W. VAN BUREN ST.
PHOENIX AZ 85043

SALES ORDER NO 2853639

ITEM NO	QUANTITY SHIPPED	U/M	PART NUMBER / DESCRIPTION	Manufacturer Lot#	HPG Lot#
1 ***	4.00	EA	358024 BEARING QTY: 4 MFG. NAME : Honeywell REV LEVEL : E CONTROL NO.: 7046664	60491672	0402022021

End of Certificate

*** Items are supplied under direct ship authority and (a) were produced by approved manufacturing and quality control systems/methods as set forth in the applicable FAA Production Approval (PC413, TSOA or PMA) issued to Honeywell International Inc. and (b) are new and in airworthy condition.

This is to certify that all articles delivered on this order conform to all applicable blueprint and specification requirements. Evidence of such is on file with us and our suppliers subject to examination.

HONEYWELL - HARDWARE PRODUCT GROUP

David Thornhill

Quality Assurance Director

1. Approving National Aviation Authority/Country	2.	3. From Tracking Number:
FAA/United States	**AIRWORTHINESS RELEASE CERTIFICATE** FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	60 86843

4. Organizations Name and Address:	4. Work Order/Contract/ Invoice Number:
Timken Aerospace Services (PBC), 336 Mechanic Street, Lebanon NH 03766 (USA)	8004606/B23408

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10 Quantity:	11. Serial/Batch Number:	12 Status/Work:
1	BEARING	3860173-1	N/A	ONE	UA03 S1998-334	Overhauled

13. REMARKS:

Work was performed in accordance with: TAS RSUAL 49-20-01/AR02

14. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13.	19. ☒ 14 CFR 43.9 Return to Service Other regulation specified in Block 13 Certifies, that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.	
15. Authorized Signature	16. Approval/Authorization No	20. Authorized Signature: RJ Barnum	21. Certificate Number: QPBR408K
17. Name (typed or printed)	18. Date (m/d/yy)	22. Name (typed or printed): RJ Barnum	23. Date (m/d/yy) March 10, 2004

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with national regulations by the user/installer before the aircraft may be flow.

1. Approving National Aviation Authority/Country	2.	3. From Tracking Number:
FAA/United States	**AIRWORTHINESS RELEASE CERTIFICATE** FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	60 86843

4. Organizations Name and Address:	4. Work Order/Contract/ Invoice Number:
Timken Aerospace Services (PBC), 336 Mechanic Street, Lebanon NH 03766 (USA)	8004606/B23408

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10 Quantity:	11. Serial/Batch Number:	12 Status/Work:
1	BEARING	3860173-1	N/A	ONE	UA03 S1998-333	Overhauled

13. REMARKS:

Work was performed in accordance with: TAS RSUAL 49-20-01/AR02

14. Certifies that the items identified above were manufactured in conformity to: ☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13	19. ☒ 14 CFR 43.9 Return to Service Other regulation specified in Block 13 Certifies, that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.	
15. Authorized Signature	16. Approval/Authorization No:	20. Authorized Signature:	21. Certificate Number: QPBR408K
17. Name (typed or printed)	18. Date (m/d/yy):	22. Name (typed or printed): RJ Barnum	23. Date (m/d/yy) March 10, 2004

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with national regulations by the user/installer before the aircraft may be flow.

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	10002920

4. Organization Name and Address: HONEYWELL INTERNATIONAL - ENGINES, SYSTEMS & SERVICES (TSO)
P.O. BOX 52181
PHOENIX, AZ 850722181
c/o 'HARDWARE PRODUCT GROUP
1405 W. 240TH ST.
HARBOR CITY, CA 90710

5. Work Order/Contract/Invoice Number: 2773069 006

6. Item	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	BEARING	3860496-1 ****** LAST ITEM ******	TSO Article N/A	13 EA	Lot# 0310057965 MLot:PS. 121817	NEW

13. Remarks: EXPORT. DIRECT SHIPMENT AUTHORIZATION. AV-565-1

Customer P.O. # B41443
It is hereby certified that (a) the parts and/or materials reflected herein were produced under Federal Aviation Administration approved manufacturing and quality control systems/methods as set forth in FAA Production Approval to manufacture issued to Honeywell International Inc. and (b) such parts and/or materials are in an airworthy condition. Direct ship authorization from the Production Approval Holder is on file.

14. Certifies the items identified above were manufactured in conformity to:

[X] Approved design data and are in a condition for safe operation.

[ ] Non-approved design data specified in Block 13.

19. [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
Barry E. Franklin	ODARF602216NM		
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
Barry E. Franklin	01/20/04		

User/Installer Responsibilities

It is important to understand that the existence of this document alone *does not automatically constitute* authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness *different than the airworthiness* authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her *airworthiness authority* accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 & 19 do not *constitute installation certification.* In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the ***national regulations by*** the user/installer before the aircraft may be flown.

*Installer must cross-check eligibility with applicable technical data.

NSN:0052-00-012-9005

1. Approving National Aviation Authority/Country	2.	3. From Tracking Number:
FAA/United States	**AIRWORTHINESS RELEASE CERTIFICATE** FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	86193

4. Organizations Name and Address:	5. Work Order/Contract/Invoice Number:
Timken Aerospace Services (PBC), 336 Mechanic Street, Lebanon NH 03766 (USA)	B22409/8005065

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10 Quantity:	11. Serial/Batch Number:	12 Status/Work:
1	BEARING	3860158-1	N/A	ONE	UA03 S1998-470	Overhauled

13. REMARKS:

Work was performed In-Accordance With: TAS RSUAL 49-20-01/ AR02

14. Certifies the items identified above were manufactured in conformity to:	19. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13
☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13.	Certifies, that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No:	20. Authorized Signature:	21. Certificate Number:
		Belinda J. Butterfield	QPBR408K
17. Name (typed or printed):	18. Date (m/d/yy)	22. Name (typed or printed):	23. Date (m/d/yy)
		Belinda J. Butterfield	October 22, 2003

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with national regulations by the user/installer before the aircraft may be flow.

1. Approving National Aviation Authority/Country	2.	3. From Tracking Number:
FAA/United States	**AIRWORTHINESS RELEASE CERTIFICATE** FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	86193

4. Organizations Name and Address:	5. Work Order/Contract/Invoice Number:
Timken Aerospace Services (PBC), 336 Mechanic Street, Lebanon NH 03766 (USA)	B22409/8005065

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10 Quantity:	11. Serial/Batch Number:	12 Status/Work:
1	BEARING	3860158-1	N/A	ONE	UA03 S1998-471	Overhauled

13. REMARKS:

Work was performed In-Accordance With: TAS RSUAL 49-20-01/ AR02

14. Certifies the items identified above were manufactured in conformity to:	19. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13
☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13.	Certifies, that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No:	20. Authorized Signature:	21. Certificate Number:
		Belinda J. Butterfield	QPBR408K
17. Name (typed or printed):	**18. Date (m/d/yy)**	**22. Name (typed or printed):**	**23. Date (m/d/yy)**
		Belinda J. Butterfield	October 22, 2003

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with national regulations by the user/installer before the aircraft may be flow.

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	859841

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
HONEYWELL INTERNATIONAL - ENGINES, SYSTEMS & SERVICES (TSO) P.O. BOX 52181 PHOENIX, AZ 850722181 C/O HARDWARE PRODUCT GROUP 1405 W. 240TH ST. HARBOR CITY, CA 90710	2741434 002

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	WASHER SPR CPRS	352723-53 ****** L A S T I T E M ******	TSO Article N/A	1 EA	Lot# 0308047635 MLot:59478	NEW

13. Remarks: EXPORT. DIRECT SHIPMENT AUTHORIZATION.

Customer P.O. # B41370

It is hereby certified that (a) the parts and/or materials reflected herein were produced under Federal Aviation Administration approved manufacturing and quality control systems/methods as set forth in FAA Production Approval to manufacture issued to Honeywell International Inc. and (b) such parts and/or materials are in an airworthy condition. Direct ship authorization from the Production Approval Holder is on file.

14. Certifies the items identified above were manufactured in conformity to:

[X] Approved design data and are in a condition for safe operation.

[ ] Non-approved design data specified in Block 13.

19. [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
Angelina Penaloza	ODARF602216NM		
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
Angelina Penaloza	01/05/04		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

*Installer must cross-check eligibility with applicable technical data.

NSN:0052-00-012-9005

Honeywell

HONEYWELL
HARDWARE PRODUCT GROUP
1405 W. 240TH ST
HARBOR CITY, CA 90710

REFERENCE NO. 23281504 PAGE 1

PURCHASE ORDER NO B41370

CERTIFICATE OF CONFORMANCE

CUSTOMER CODE 3281

CUSTOMER RELEASE NO

SOLD TO
CHROMALLOY ARIZONA
ATTN: ACCOUNTS PAYABLE
5161 W. POLK STREET
PHOENIX AZ 85043

SHIP TO
CHROMALLOY ARIZONA
ATTN: RECEIVING
5150 W. VAN BUREN ST.
PHOENIX AZ 85043

SALES ORDER NO 3741434

ITEM NO	QUANTITY SHIPPED	U/M	PART NUMBER / DESCRIPTION	Manufacturer Lot#	HPG Lot#
1 ***	1.00	EA	352723-53 WASHER SPR CPRS QTY: 1 MFG. NAME : Honeywell REV LEVEL : CH	59478	0308047635

End of Certificate

*** Items are supplied under direct ship authority and (a) were produced by approved manufacturing and quality control systems/methods as set forth in the applicable FAA Production Approval (PC413, TSOA or PMA) issued to Honeywell International Inc. and (b) are new and in airworthy condition.

This is to certify that all articles delivered on this order conform to all applicable blueprint and specification requirements. Evidence of such is on file with us and our suppliers subject to examination.

HONEYWELL - HARDWARE PRODUCT GROUP

David Thornhill

Quality Assurance Director

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	9941135032603

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
AeroControlex Group, Transdigm Inc. 4223 Monticello Blvd., Cleveland, Ohio 44121 (FAA PMA PQ2093CE)	20488

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	GEAR	3880204-2	Boeing 767-200, -300, -300F, -400ER, 757-200, -200PF, -200CB, -300, Airbus Industrie A310-221, -203, -204, A310-322, -324, -304, -325, A300, Model B4-601, B4-603, B4-620, B4-605R, B4-622R, F4-605R, F4-622R	8	N/A	NEW

13. Remarks:

AIRWORTHINESS PART APPROVAL – THIS IS NOT AN EXPORT APPROVAL.

PART NUMBER SHOWN IN BLOCK 8 IS ELIGIBLE FOR INSTALLATION IN AEROCONTROLEX PMA PART NO. 3880200-6

14. Certifies the items identified above were manufactured in conformity to:

☒ Approved design data and are in a condition for safe operation.
☐ Non-approved design data specified in Block 13.

19. ☐ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
Calvin Shaw	DMIR410154CE		
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
Calvin Shaw	March 26, 2003		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	- 995585102103

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
AeroControlex Group, Transdigm Inc. 4223 Monticello Blvd., Cleveland, Ohio 44121 (FAA PMA PQ2093CE)	23577

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	GEARSHAFT ASSY	3880326-11	Boeing 767-200, -300, -300F, -400ER, 757-200, -200PF, -200CB, -300, Airbus Industrie A310-221, -203, -204, A310-322, -324, -304, -325, A300 Model B4-601, B4-603, B4-620, B4-605R, B4-622R, F4-605R, F4-622R	1	N/A	NEW

13. Remarks:

AIRWORTHINESS PART APPROVAL – THIS IS NOT AN EXPORT APPROVAL.

PART NUMBER SHOWN IN BLOCK 8 IS ELIGIBLE FOR INSTALLATION IN AEROCONTROLEX PMA PART NO. 3880200-6

14. Certifies the items identified above were manufactured in conformity to:

☒ Approved design data and are in a condition for safe operation.

☐ Non-approved design data specified in Block 13.

19. ☐ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
	DMIR410154CE		
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
Calvin Shaw	October 21, 2003		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

AERO CONTROLEX GROUP

TRANS DIGM

26380 Curtiss Wright Parkway
P.O. Box 44210
Richmond Hts., OH 44143 0210
(216) 289 8900
Fax (216) 261 8025
FAA CRS #A3R423J

DATE SHIPPED
PIECES
OF LBS
B/L #

SOLD TO

SHIP TO

CUSTOMER NUMBER	PURCHASE ORDER NUMBER	ORDER #	ORDER DATE	SHIP VIA

LINE NUMBER	PACK CODE	LOCATION	ITEM NUMBER	QUANTITY ORDERED	UNIT MEASURE	QUANTITY SHIPPED	QUANTITY BACK ORDERED
						1	4

DO NOT WRITE BELOW THIS LINE

CERTIFICATE OF CONFORMANCE

AUTHORIZED SIGNATURE

TransDigm Inc
Aero Controlex Group

WE HEREBY CERTIFY THAT THE PARTS ON THIS SHIPMENT HAVE BEEN INSPECTED AND FOUND TO MEET ALL APPLICABLE PRINTS, MATERIAL, PROCESSING AND HEAT TREATING SPECIFICATIONS THAT REPORTS COVERING ALL MATERIAL USED IN THE MANUFACTURE OF THESE PARTS AND/OR MATERIAL ARE ON FILE SUBJECT TO EXAMINATION AND BEARING CONFORMANCE WITH APPLICABLE SPECIFICATION REQUIREMENTS.

FORM #172

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	995940111703

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
AeroControlex Group, Transdigm Inc. 4223 Monticello Blvd., Cleveland, Ohio 44121 (FAA PMA PQ2093CE)	24046

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	GEARSHAFT ASSY	3880326-10	Boeing 767-200, -300, -300F, -400ER, 757-200, -200PF, -200CB, -300, Airbus Industrie A310-221, -203, -204, A310-322, -324, -304, -325, A300, Model B4-601, B4-603, B4-620, B4-605R, B4-622R, F4-605R, F4-622R	3	N/A	NEW

13. Remarks:

AIRWORTHINESS PART APPROVAL – THIS IS NOT AN EXPORT APPROVAL.

PART NUMBER SHOWN IN BLOCK 8 IS ELIGIBLE FOR INSTALLATION IN AEROCONTROLEX PMA PART NO. 3880200-6

B41106

14. Certifies the items identified above were manufactured in conformity to:

☒ Approved design data and are in a condition for safe operation.
☐ Non-approved design data specified in Block 13.

19. ☐ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
Calvin Shaw	DMIR410154CE		
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
Calvin Shaw	November 17, 2003		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

INDUSTRIAL BEARING SALES, Inc.

Aircraft Parts Div.
Ph. (925) 376-0923
Fax (925) 377-9835
25017 Viking • Hayward, CA 94545

SUBJECT: Evidence Of Airworthiness/Certificate Of Conformance

For Part # IU67AGSPS

Reference Your P.O. # B 40212 Our Invoice #20548

"It Is Hereby Certified That The Items Of Materials Covered By This Document Have Been Inspected And Tested And Conform To The Approved Specifications Relative Thereto And Are Airworthy." "This Is Substaintiated Either By Our Own Inspection And Test, Or By Satisfactory Documentary Evidence From The Original Source Of Supply."

Jerold Benjamin Manager

JOB #16511-21/0425789501

UNITED

PSEN446A-2
03/09/04
COAS BY SUBASSEMBLY

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
COA SCHEDULING REPORT
REASON: REMOVAL

REQUESTOR NAME: REMOVAL
ORGANIZATION:

WORK CENTER: 551

SERIAL NBR	ET	MT	NAME	PWR RTG	CUST
61913		V	APU331	200E	UA

ORDER NUMBER
V518

COAS FOR MODULE TYPE A - SERIAL NUMBER P698 MODULE NAME: GEARBOX ASSMBLY WORK CENTER: 551

COA NUMBER	COA CAT	MODULE/ FUNC NBR	UNIT SERIAL	UNIT COA STATUS	ISS	COMP	COA TITLE	COMPLETION DATE

*** NO COAS SCHEDULED FOR THIS UNIT ***

UNITED AIRLINES - MASTER ICS/BOM

Effectivity 331-200ER APU Engine Manual - Inspection and Condition Sheet

LOAD COMPRESSOR MODULE "FV " ALL PARTS CONTAINED WITHIN ARE NON HAZMAT

60-49-25-00-00 ICS

Origination Date 3/12/2004

MODULE ORDER # FV518

MODULE SERIAL # P1372

EON V518 ESN 61913 VADE # CUSTOMER UAL

DISPOSITION CODES:

E =	PART MEETS DETAIL PART EID REQUIREMENTS (ZERO TIME SINCE DETAIL PART INSPECTION)
A =	EXPOSED AREA OF PART MEETS VISUAL REQUIREMENTS OF APPROPRIATE EID (CONTINUED TIME SINCE DETAIL PARTS INSPECTION)
C =	PART ROUTED OR CORRECTIVE ACTION TAKEN
ATA# ____ = S/L - SEQ	EID NUMBER [49 precedes numbers shown (49) 31-XX] SECTION / LIST - SEQUENCE NUMBER
EPM ____ = FUNC #	STAMP TO INDICATE PART OFF-LOG FROM MODULE FUNCTION NUMBER

INSPECTION NOTES

(STAMP OFF APPROPRIATE DISPOSITION CODE. MORE THAN ONE CODE MAY BE STAMPED.)
(INDICATE CONDITION OF UNSERVICEABLE PARTS REGARDLESS OF CONDITION.)
(TO CLEAR PARTS NOT EXPOSED DRAW A LINE THROUGH THE COMPLETE ENTRY AND STAMP IN LEFT MARGIN.)
(IF PART IS ROUTED ON AN R & R TAG IT IS MANDATORY TO STAMP THE APPLICABLE "E" "A" OR "C" BLOCK AND WRITE R & R IN THE "C" BLOCK THEN COMPLETE THE APPROPRIATE COMPUTER TRANSACTION.)
(ALL PARTS NEEDING REPAIR WILL HAVE AN IDENTIFICATION TAG WITH PART NUMBER, SERIAL NUMBER (IF APPLICABLE) AND THE QUANTITY, ATTACHED TO THE PART.)
(PARTS THAT DO NOT HAVE SPECIFIC EID'S WRITTEN FOR THEM MUST BE VISUALLY INSPECTED FOR GENERAL CONDITION PER 331-500 BOOK "0" 20-49-00-00, INTRODUCTION, SECTION 4, PARA A, STATEMENT 4.

MODULE INSPECTION GUIDE

(1) Module seperated from adjoining modules, inspected and found serviceable per EID 60-49-21-00-00 [ZERO (TSMI) No parts removed from module. No additional sign-off required.

(2) Module partially or completely disassembled. Removed parts and / or exposed areas inspected per appropriate EID (ZERO TSDPI).

Control Date: 20031203

Revision Date 3/25/2004 Name [redacted]

						CAZ SHIP TO DATE	CAZ RET DATE	MODULE ORDER #
APU S/N	61913	TSLV	06075	EON	V518			FV518
Total Time	18599	CSLV	06550	P.O.	S306133			MODULE SERIAL #
Total Cycles	20796			Date Rcvd.	03/09/04			P1372

Inspection Use Only					Hardware Info					Stores Use			
E	A	C	OFF-LOG FUNC #	COND/ROUTING	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
			5719	100%	BEARING THRUST	3613827-1	265-3238	20-01-01 35-020	1		1		
			5746	100%	BEARING ROLLER	3822099-1	265-0462	20-01-01 18-320	1		1		
			5718	100%	CARBON SEAL ASSY	3611175-1	265-0037	20-02-00 35-010	2		2		
			5672	FRETTED	RETAINER BRG	3826160-2	265-0471	22-02-00 18-070	1		1		
			EPM 0988	DISASSEMBLE	IGV ASSY	3810231-21	265-3012	25-02-00 25-000	1				
			0992	WORN AEREADABLE	BRG HOUSING	3810187-2	265-0049	25-03-00 18-190	1		1		
			2251		COUPLING & SEAL	3822060-2	265-0590	25-04-00 18-160	1				
			2275	TORN	SOUND ATTEN INSERT	DEC31-011 -501	265-3072	25-05-01 18-095	1		1		
			1227	DETERIORATED	SHIELD INSULATOR	3826680-1	265-3186	25-07-01 18-015	1		1		
			5680	DIA B OS	BACK SHRD ASSY	3825141-7	265-0593	25-08-00 18-010	1		1		
			2280	WORN	SCROLL HSG	3826140-5	265-0592	25-09-00 18-060	1		1		E74
			2239	WORN BUSHING	BELLCRANK	3826527-1	265-3087	25-10-00 18-120	1		1		
			2274	WORN BUSHING	MOUNT IGV ACT	3826154-1	265-0084	25-11-00 18-130	1		1		
			0990	FOD	DIFFUSER	3826282-1	265-0213	25-13-00 18-050	1		1		
			2272	DIA D OS SB2999	HSG INLET	3810176-7	265-3073	25-15-00 18-100	1		1		
			EPM 0989		IMPELLER	3822080-3	265-0059	25-19-00 18-150	1	1			E74

Load Compressor mod "FV " I & C Sheet page 3 of 8

APU S/N	61913	EON	V518
		P.O.	S306133

CAZ SHIP TO DATE

CAZ RET DATE

MODULE ORDER # FV518

MODULE SERIAL # P1372

Inspection Use Only					Hardware Info					Stores Use			
E	A	C	OFF-LOG FUNC #	COND/ROUTING	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
			0991		SHAFT	3822062-2	265-0459	25-20-00 18-200	1				
			2247	LIDRIV A2247DAB66	CARRIER SEAL	3826125-1	265-0075	25-21-00 18-220	1				
			2248		CARRIER SEAL	3826127-1	265-0076	25-22-00 18-210	1				
			5687		SEAL ROTOR	3822091-1	265-3325	25-23-00 18-170	1				
			2271		CARRIER BRG	3826120-2	265-0072	25-32-00 18-040	1				
			5754		COVER IGV	3826251-2	265-0483	25-38-00 05-150	1				
			5755		BRACKET IGV	3826227-1	265-0442	25-39-00 50-160	1				

NON EID PARTS BILL OF MATERIAL PARTS ONLY

331-200ER "FV" MODULE

EFF 331-200ER

APU S/N	61913	EON	V518
		P.O.	S306133

CAZ SHIP TO DATE

CAZ RET DATE

MODULE ORDER # FV518

MODULE SERIAL # P1372

Hardware information							Stores Use			
COMMENT	IPC LOCATION	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
	49-25-00A-000D-125	ROD CONNECT	3826153-2	265-0664		1				
Hose	49-25-00A-000A-220 49-25-00A-000K-030	BEARING ROD	137-542 -9501	265-3020		2		2		
	49-25-00A-000D-085	BEARING ROD	MSSE3AR HMR3M	265-3020		2				
	49-22-00A-000D-025 49-22-00A-000E-315	NUT WASHER	3822056-1	265-0051		1				
	49-22-00A-000D-190 49-25-00A-000E-055	WASHER THRUST	3826152-1	265-0087		1				
	49-22-00A-000D-170 49-25-00A-000E-075	RETAINER SEAL	3826153-1	265-0088		1				
	49-25-00A-000A-180 49-27-00A-000C-420	SHAFT ACT	3826158-1	265-0086		1				
	49-25-00A-000E-285	RETAINER	3826226-1	265-0038		1				
	49-25-00A-000A-090	TUBE OIL	3880125-1	265-0141		1				
	49-10-00A-000G-265 49-25-00A-000A-045	TUBE OIL XFER	3881051-1	265-3217		1				
1009	49-22-00A-000D-200 49-25-00A-000E-255	ROTOR CARBON SEAL	DEC31-167 -501	265-0456		2		2		
	49-25-00A-000E-265	RETAINER SEAL	3826130-1	N/S		1				
	49-25-00A-000E-275	WASHER SPRING	352723-48	265-0033		1				
	49-22-00A-000D-180 49-25-00A-000E-065	WASHER SPRING	352723-50	265-0034		1				
	49-25-00A-000E-115	NUT, SHAFT	3822073-1	N/S		1				

APU S/N	61913	EON	V518
		P.O.	S306133

CAZ SHIP TO DATE

CAZ RET DATE

MODULE ORDER # FV518

MODULE SERIAL # P1372

Hardware information							Stores Use			
COMMENT	IPC LOCATION	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV

HISTORY PAGE

ENTER REASON FOR REVISION

CAZ Qty Total =

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	904822-001

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
Honeywell International, Inc. 1944 E. Sky Harbor Circle Phoenix, AZ 85034 FAA CERTIFICATE #ZN3R030M	904822-001 904822-001

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial / Batch No:	12. Status / Work:
001	BEARING RLR	3822099-1	N/A	000001	GR03 09100-677 TRACE # 09100- N/A	OVERHAULED

13. Remarks:

REPAIR ORDER NUMBER: 904822-001
PART HAS BEEN WORKED AND INSPECTED IN ACCORDANCE WITH: MANUAL #: 49-23-49 REVISION: 15
ORI: T30904

FOR JAA CUSTOMERS ONLY:
"THIS CERTIFIES THE WORK SPECIFIED IN BLOCK 12/13 WAS CARRIED OUT IN ACCORDANCE WITH JAR 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER JAA ACCEPTANCE CERTIFICATE NUMBER: JAA.4136"

14. Certifies the items identified above were manufactured in conformity to:	19. ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No:	20. Authorized Signature:	21. Approval/Certificate No:
			ZN3R030M
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
		ERUCE BREKKE	12/08/03

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/component/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

*Installer must cross-check eligibility with applicable technical data.

NSN 0052-00-012-9005

1. Approving National Aviation Authority/Country	2. AIRWORTHINESS RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	3. From Tracking Number:
FAA/United States		86155

4. Organizations Name and Address:	5. Work Order/Contract/Invoice Number:
Timken Aerospace Services (PBC), 336 Mechanic Street, Lebanon NH 03766 (USA)	B22362/8005055

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10 Quantity:	11. Serial/Batch Number:	12 Status/Work:
1	BEARING	3613827-1	N/A	ONE	UA03 S1998-441	Overhauled

13. REMARKS:

Work was performed In-Accordance With: TAS RSUAL 49-20-01/ AR02

14. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13.	19. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13 Certifies, that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No:	20. Authorized Signature:	21. Certificate Number:
			QPBR408K
17. Name (typed or printed):	18. Date (m/d/yy)	22. Name (typed or printed): RJ Barnum	23. Date (m/d/yy) October 20, 2003

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with national regulations by the user/installer before the aircraft may be flow.

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	WO #115331

4. Organization Name and Address:
BRITT METAL PROCESSING, INC. 15800 N.W. 49TH AVE MIAMI, FLORIDA 33014
DP4R136M

5. Work Order/Contract/Invoice Number:
PO#B23219

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	SCROLL HOUSING AS SY., GTCP331 DRIV	3826140-5	TBV by installer	1	BMP #82592	OVERHAULED

13. Remarks:
OVERHAULED I.A.W. MANUAL 49-23-49 REV. 15, SEE BMP-144 FORM
OTHER APPROVALS-->FAA 9201081
CERTIFIES WORK IN BLOCK 12/13 WAS CARRIED OUT I.A.W. JAR 145 REGULATION AND ARE READY FOR RELEASE TO SERVICE UNDER JAA ACCEPTANCE CERTIFICATE # JAA 4279

14. Certifies the items identified above were manufactured in conformity to:

☐ Approved design data and are in condition for safe operation.

☐ Non-approved design data specified in Block 13.

19. [X] 14 CFR 43.9 Return to Service [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
			DP4R136M
17. Name (Typed or Printed):	**18. Date:**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
		GERMAN H. VANEGAS	02/28/04

User/Installer Responsibilities

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Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

Chromalloy AZ

ZEISS

Plan Name
3826140-5

Date
March 4, 2004

Drawing No.
* drawingno *

Time
9:23:52 am

Order
115331

Operator
Master

CMM
Q1754
Cal'd: 5/7/2003 Due: 5/7/2004

Incremental Part Number
1

	Actual	Nominal	Upper Tol.	Lower Tol.	Deviation
	Diameter -B-				-|
	15.56198	15.56200	0.00100	-0.00100	-0.00004
	-A- to Surface C				|—
	1.12245	1.11900	0.00400	0.00000	0.00345
	-A- to Surface H				—|
	1.12678	1.13100	0.00500	-0.00500	-0.00422
	Flatness -A-				|-
	0.00035	0.00000	0.00500		0.00035
	Diameter_AN				—|
	16.03950	16.04100	0.00250	-0.00250	-0.00150
	True Position_AN .002 at mmc				|—
	0.00131	0.00000	0.00200	0.00200	0.00131
	Profile at 0°				|XXX>
	0.00439	0.00000	0.00300	-0.00300	0.00291
	Profile at 60°				|XXX>
	0.00482	0.00000	0.00300	-0.00300	0.00286
	Profile at 120°				0.00022
	0.00532	0.00000	0.00300	-0.00300	0.00322
	Profile at 180°				0.00053
	0.00539	0.00000	0.00300	-0.00300	0.00353

Plan Name	Operator	Time	Date
3826140-5	Master	9:23:52 am	March 4, 2004

	Actual	Nominal	Upper Tol.	Lower Tol.	Deviation
	Profile at 240°				|XXX>
	0.00448	0.00000	0.00300	-0.00300	0.00293
	Profile at 300°				|XXX>
	0.00392	0.00000	0.00300	-0.00300	0.00239
	Diameter_M				
	5.70736	5.71300	0.00000		-0.00564

Chromalloy AZ

ZEISS

Plan Name 3826140-5 side 2	Date March 4, 2004	
Drawing No. * drawingno *	Time 9:59:48 am	Order 115331
Operator Master	CMM Q1754 Cal'd: 5/7/2003 Due: 5/7/2004	Incremental Part Number 1

	Actual	Nominal	Upper Tol.	Lower Tol.	Deviation
	Diameter_AP				
	6.21975	6.22100	0.00300	-0.00300	-0.00125

ZEISS

Calypso
3.8.04.07

Chromalloy AZ

Date	March 4, 2004
Order	115331
Department	
Operator	Master
Signature:	

Part Number
1

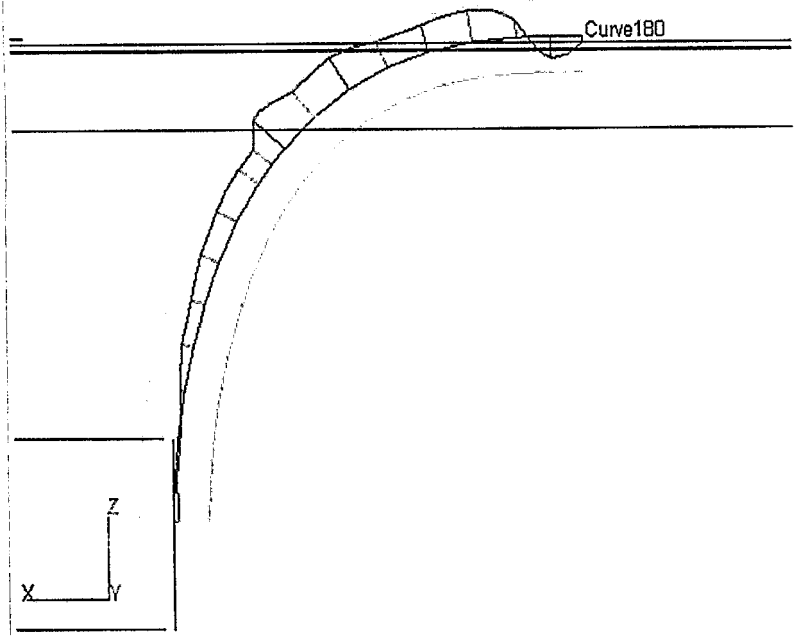
CMM
CONTURA

Drawing No.
* drawingno *

Plan Name
3826140-5

Profile at 180°

X = 0.00000
Y = 0.00000
Z = 0.00000
zoom = 50



0.3 inch

No	Identifier	Actual	Tol.	Points	Speed	PrRadius	F.Typ	L-C	UPR
1	Profile at 180°	0.00539	0.00300	20		0.15753			

ZEISS

Calypso
3.8.04.07

Chromalloy AZ

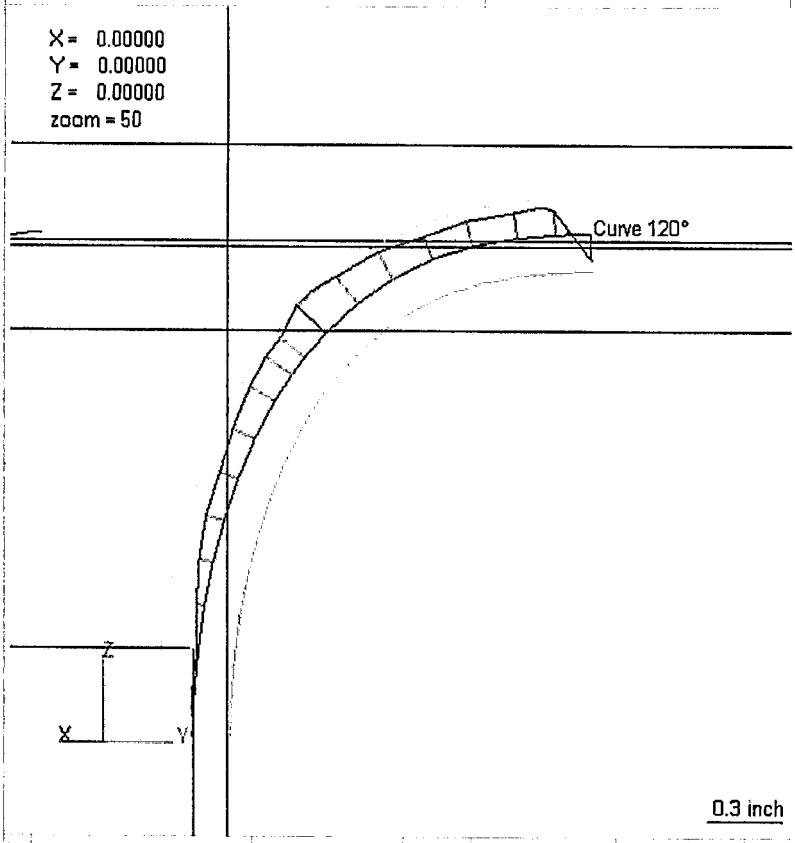
Date	March 4, 2004
Order	115331
Department:	
Operator	Master
Signature:	

Part Number 1	CMM CONTURA	Drawing No. * drawingno *

Plan Name
3626140-5

Profile at 120°

X = 0.00000
Y = 0.00000
Z = 0.00000
zoom = 50



0.3 inch

No	Identifier	Actual	Tol	Points	Speed	PtRadius	F.Typ	L-C	UPR
1	Profile at 120°	0.00532	0.00300	20		0.15753			

UNITED AIRLINES
E74 CMM INSPECTION

TC# 60-492509 GTCP331-200 SCROLL HOUSING
PER EID 49-25-09 03/30/00

ALWAYS REFER TO THE SPECIFICATION TO VERIFY TOLERANCES

OPERATOR NAME: PAUL FREVELE
LOT NUMBER: 624960
PART NUMBER: 3826140-5
SERIAL NUMBER: NONE

(in)	ACTUAL	NOMINAL	LO-TOL	HI-TOL	DEVIATION	GRAPHIC	ERROR
(H1) DIAMETER B							
CIRCLE:DIAMB							
Diameter	15.5624	15.5660	-0.0050	+0.0000	-0.0036	--*+--	
(H2) DIAMETER AH							
CIRCLE:DIAMAH							
X-axis	0.0001	0.0000			0.0001		
Y-axis	0.0003	0.0000			0.0003		
Diameter	16.0396	16.0415	-0.0025	+0.0025	-0.0019	-*-+--	
TruePosition2D	0.0006	0.0020				+*--	
(H3) DIAMETER AP							
CIRCLE:AP							
Diameter	6.2194	6.2210	-0.0030	+0.0030	-0.0016	-*-+--	
(H4) DIAMETER M							
CIRCLE:DIAMM							
Diameter	5.7077	5.7050	-0.0010	+0.0000	0.0027	--*+---	
(H5) SURFACE C							
POINT:D8							
Z-axis	-1.1216	-1.1190	-0.0100	+0.0000	-0.0026	---+*--	
(H6) SURFACE H							
POINT:C14							
Z-axis	-1.1264	-1.1260	-0.0100	+0.0000	-0.0004	----+--*	
(H7) PROFILE OF SURFACE J							
PROFILE OF SURFACE J AT 0 DEG							
POINT:PT1A							
Surf-Profile	-0.0009		-0.0030	+0.0030	-0.0009	+-*+---	
POINT:PT2A							
Surf-Profile	-0.0016		-0.0030	+0.0030	-0.0016	-*-+---	

(in)	ACTUAL	NOMINAL	LO TOL	HI TOL	DEVIATION	GRAPHIC	ERROR
POINT:PT3A Surf-Profile	0.0001		-0.0030	+0.0030	0.0001	---*---	
POINT:PT4A Surf-Profile	0.0006		-0.0030	+0.0030	0.0006	---+*--	
POINT:PT5A Surf-Profile	0.0011		-0.0030	+0.0030	0.0011	---+*--	
POINT:PT6A Surf-Profile	0.0008		-0.0030	+0.0030	0.0008	---+*--	
POINT:PT7A Surf-Profile	0.0009		-0.0030	+0.0030	0.0009	---+*--	
POINT:PT8A Surf-Profile	0.0020		-0.0030	+0.0030	0.0020	---+-*-	
POINT:PT9A Surf-Profile	0.0023		-0.0030	+0.0030	0.0023	---+-*-	
POINT:PT10A Surf-Profile	0.0023		-0.0030	+0.0030	0.0023	---+-*-	
POINT:PT11A Surf-Profile	0.0018		-0.0030	+0.0030	0.0018	---+-*-	
POINT:PT12A Surf-Profile	0.0017		-0.0030	+0.0030	0.0017	---+-*-	
POINT:PT13A Surf-Profile	0.0014		-0.0030	+0.0030	0.0014	---+*--	
POINT:PT14A Surf-Profile	0.0014		-0.0030	+0.0030	0.0014	---+*--	
POINT:PT15A Surf-Profile	0.0012		-0.0030	+0.0030	0.0012	---+*--	
POINT:PT16A Surf-Profile	0.0012		-0.0030	+0.0030	0.0012	---+*--	
POINT:PT17A Surf-Profile	0.0005		-0.0030	+0.0030	0.0005	---+*--	
POINT:PT18A Surf-Profile	0.0005		-0.0030	+0.0030	0.0005	---+*--	
POINT:PT19A Surf-Profile	0.0003		-0.0030	+0.0030	0.0003	---*---	
POINT:PT20A Surf-Profile	0.0001		-0.0030	+0.0030	0.0001	---*---	

(in)	ACTUAL	NOMINAL	LO-TOL	HI-TOL	DEVIATION	GRAPHIC	ERROR
PROFILE OF SURFACE J AT 60 DEG							
POINT:PT1B							
Surf-Profile	-0.0007		-0.0030	+0.0030	-0.0007	--*+---	
POINT:PT2B							
Surf-Profile	-0.0020		-0.0030	+0.0030	-0.0020	-*--+--	
POINT:PT3B							
Surf-Profile	0.0000		-0.0030	+0.0030	0.0000	---*---	
POINT:PT4B							
Surf-Profile	0.0014		-0.0030	+0.0030	0.0014	----+*--	
POINT:PT5B							
Surf-Profile	0.0011		-0.0030	+0.0030	0.0011	---+*--	
POINT:PT6B							
Surf-Profile	0.0013		-0.0030	+0.0030	0.0013	----+*--	
POINT:PT7B							
Surf-Profile	0.0007		-0.0030	+0.0030	0.0007	---+*---	
POINT:PT8B							
Surf-Profile	0.0021		-0.0030	+0.0030	0.0021	----+-*-	
POINT:PT9B							
Surf-Profile	0.0025		-0.0030	+0.0030	0.0025	----+--*	
POINT:PT10B							
Surf-Profile	0.0024		-0.0030	+0.0030	0.0024	----+-*-	
POINT:PT11B							
Surf-Profile	0.0018		-0.0030	+0.0030	0.0018	----+-*-	
POINT:PT12B							
Surf-Profile	0.0017		-0.0030	+0.0030	0.0017	----+-*-	
POINT:PT13B							
Surf-Profile	0.0015		-0.0030	+0.0030	0.0015	----+-*-	
POINT:PT14B							
Surf-Profile	0.0014		-0.0030	+0.0030	0.0014	----+*--	
POINT:PT15B							
Surf-Profile	0.0012		-0.0030	+0.0030	0.0012	----+*--	
POINT:PT16B							
Surf-Profile	0.0011		-0.0030	+0.0030	0.0011	----+*--	
POINT:PT17B							
Surf-Profile	0.0005		-0.0030	+0.0030	0.0005	----+*--	

(in)	ACTUAL	NOMINAL	LO-TOL	HI-TOL	DEVIATION	GRAPHIC	ERROR
POINT:PT19B							
Surf-Profile	0.0003		-0.0030	+0.0030	0.0003	---*---	
POINT:PT19B							
Surf-Profile	0.0002		-0.0030	+0.0030	0.0002	---*---	
POINT:PT20B							
Surf-Profile	0.0001		-0.0030	+0.0030	0.0001	---*---	
PROFILE OF SURFACE J AT 120 DEG							
POINT:PT1C							
Surf-Profile	-0.0006		-0.0030	+0.0030	-0.0006	--*+---	
POINT:PT2C							
Surf-Profile	-0.0022		-0.0030	+0.0030	-0.0022	-*-+---	
POINT:PT3C							
Surf-Profile	0.0003		-0.0030	+0.0030	0.0003	---*---	
POINT:PT4C							
Surf-Profile	0.0020		-0.0030	+0.0030	0.0020	---+-*-	
POINT:PT5C							
Surf-Profile	0.0019		-0.0030	+0.0030	0.0019	---+-*-	
POINT:PT6C							
Surf-Profile	0.0020		-0.0030	+0.0030	0.0020	---+-*-	
POINT:PT7C							
Surf-Profile	0.0018		-0.0030	+0.0030	0.0018	---+-*-	
POINT:PT8C							
Surf-Profile	0.0023		-0.0030	+0.0030	0.0023	---+-*-	
POINT:PT9C							
Surf-Profile	0.0028		-0.0030	+0.0030	0.0028	---+--*	
POINT:PT10C							
Surf-Profile	0.0027		-0.0030	+0.0030	0.0027	---+--*	
POINT:PT11C							
Surf-Profile	0.0020		-0.0030	+0.0030	0.0020	---+-*-	
POINT:PT12C							
Surf-Profile	0.0019		-0.0030	+0.0030	0.0019	-- +-*-	
POINT:PT13C							
Surf-Profile	0.0017		-0.0030	+0.0030	0.0017	---+-*-	
POINT:PT14C							
Surf-Profile	0.0014		-0.0030	+0.0030	0.0014	--+*--	

(in)	ACTUAL	NOMINAL	LO-TOL	HI-TOL	DEVIATION	GRAPHIC	ERROR
POINT:PT15C Surf Profile	0.0011		-0.0030	+0.0030	0.0011	---+*-	
POINT:PT16C Surf Profile	0.0008		-0.0030	+0.0030	0.0008	---+*-	
POINT:PT17C Surf-Profile	0.0002		-0.0030	+0.0030	0.0002	---*---	
POINT:PT18C Surf-Profile	-0.0003		-0.0030	+0.0030	-0.0003	---*---	
POINT:PT19C Surf-Profile	-0.0003		-0.0030	+0.0030	-0.0003	---*---	
POINT:PT20C Surf-Profile	-0.0005		-0.0030	+0.0030	-0.0005	--*+---	
PROFILE OF SURFACE J AT 180 DEG							
POINT:PT1D Surf-Profile	-0.0006		-0.0030	+0.0030	-0.0006	--*+---	
POINT:PT2D Surf-Profile	-0.0021		-0.0030	+0.0030	-0.0021	*-+---	
POINT:PT3D Surf-Profile	0.0006		-0.0030	+0.0030	0.0006	---+*--	
POINT:PT4D Surf-Profile	0.0019		-0.0030	+0.0030	0.0019	---+-*-	
POINT:PT5D Surf-Profile	0.0026		-0.0030	+0.0030	0.0026	---+--*	
POINT:PT6D Surf-Profile	0.0022		-0.0030	+0.0030	0.0022	---+-*-	
POINT:PT7D Surf-Profile	0.0022		-0.0030	+0.0030	0.0022	---+-*-	
POINT:PT8D Surf-Profile	0.0030		-0.0030	+0.0030	0.0030	---+-->	0.0000
POINT:PT9D Surf-Profile	0.0032		-0.0030	+0.0030	0.0032	---+-->	0.0002
POINT:PT10D Surf Profile	0.0029		-0.0030	+0.0030	0.0029	---+--*	
POINT:PT11D Surf-Profile	0.0023		-0.0030	+0.0030	0.0023	---+-*-	

(in)	ACTUAL	NOMINAL	LO-TOL	HI-TOL	DEVIATION	GRAPHIC	ERROR
POINT:PT12D							
Surf-Profile	0.0021		-0.0030	+0.0030	0.0021	---+-*-	
POINT:PT13D							
Surf-Profile	0.0020		-0.0030	+0.0030	0.0020	---+-*-	
POINT:PT14D							
Surf-Profile	0.0015		-0.0030	+0.0030	0.0015	---+*--	
POINT:PT15D							
Surf-Profile	0.0013		-0.0030	+0.0030	0.0013	---+*--	
POINT:PT16D							
Surf-Profile	0.0010		-0.0030	+0.0030	0.0010	---+*--	
POINT:PT17D							
Surf-Profile	0.0003		0.0030	+0.0030	0.0003	---*---	
POINT:PT18D							
Surf-Profile	-0.0001		-0.0030	+0.0030	-0.0001	---*---	
POINT:PT19D							
Surf-Profile	-0.0003		-0.0030	+0.0030	-0.0003	---*---	
POINT:PT20D							
Surf-Profile	-0.0006		-0.0030	+0.0030	-0.0006	--*+---	
PROFILE OF SURFACE J AT 240 DEG							
POINT:PT1E							
Surf-Profile	-0.0009		-0.0030	+0.0030	-0.0009	--*+---	
POINT:PT2E							
Surf-Profile	-0.0016		-0.0030	+0.0030	-0.0016	-*-+	
POINT:PT3E							
Surf-Profile	0.0002		-0.0030	+0.0030	0.0002	---*---	
POINT:PT4E							
Surf-Profile	0.0012		0.0030	+0.0030	0.0012	---+*--	
POINT:PT5E							
Surf-Profile	0.0023		-0.0030	+0.0030	0.0023	---+-*-	
POINT:PT6E							
Surf-Profile	0.0017		-0.0030	+0.0030	0.0017	---+-*-	
POINT:PT7E							
Surf-Profile	0.0018		-0.0030	+0.0030	0.0018	---+-*-	
POINT:PT8E							
Surf-Profile	0.0026		-0.0030	+0.0030	0.0026	---+--*	

(in)	ACTUAL	NOMINAL	LO-TOL	HI-TOL	DEVIATION	GRAPHIC	ERROR
POINT:PT9E Surf-Profile	0.0029		0.0030	+0.0030	0.0029	---+- *	
POINT:PT10E Surf-Profile	0.0027		-0.0030	+0.0030	0.0027	---+--*	
POINT:PT11E Surf-Profile	0.0021		-0.0030	+0.0030	0.0021	---+-*-	
POINT:PT12E Surf-Profile	0.0019		-0.0030	+0.0030	0.0019	---+-*-	
POINT:PT13E Surf-Profile	0.0017		-0.0030	+0.0030	0.0017	---+-*-	
POINT:PT14E Surf-Profile	0.0015		-0.0030	+0.0030	0.0015	---+*--	
POINT:PT15E Surf-Profile	0.0013		-0.0030	+0.0030	0.0013	---+*--	
POINT:PT16E Surf-Profile	0.0010		-0.0030	+0.0030	0.0010	---+*--	
POINT:PT17E Surf-Profile	0.0004		-0.0030	+0.0030	0.0004	---*---	
POINT:PT18E Surf-Profile	0.0000		-0.0030	+0.0030	0.0000	---*---	
POINT:PT19E Surf-Profile	-0.0003		-0.0030	+0.0030	-0.0003	---*---	
POINT:PT20E Surf-Profile	-0.0003		-0.0030	+0.0030	-0.0003	---* ---	
PROFILE OF SURFACE J AT 300 DEG							
POINT:PT1F Surf-Profile	-0.0014		-0.0030	+0.0030	-0.0014	--*+---	
POINT:PT2F Surf-Profile	-0.0015		-0.0030	+0.0030	-0.0015	--*+---	
POINT:PT3F Surf-Profile	-0.0003		-0.0030	+0.0030	-0.0003	---*---	
POINT:PT4F Surf-Profile	0.0005		-0.0030	+0.0030	0.0005	---+*--	
POINT:PT5F Surf-Profile	0.0014		-0.0030	+0.0030	0.0014	---+*--	

Dim	ACTUAL	NOMINAL	LO TOL	HI TOL	DEVIATION	GRAPHIC	ERROR
POINT:PT6F Surf-Profile	0.0010		-0.0030	+0.0030	0.0010	---+*--	
POINT:PT7F Surf-Profile	0.0014		-0.0030	+0.0030	0.0014	---+*--	
POINT:PT8F Surf-Profile	0.0019		-0.0030	+0.0030	0.0019	---+-*-	
POINT:PT9F Surf-Profile	0.0024		-0.0030	+0.0030	0.0024	---+-*-	
POINT:PT10F Surf-Profile	0.0023		-0.0030	+0.0030	0.0023	---+-*-	
POINT:PT11F Surf-Profile	0.0017		-0.0030	+0.0030	0.0017	---+-*-	
POINT:PT12F Surf-Profile	0.0016		-0.0030	+0.0030	0.0016	---+-*-	
POINT:PT13F Surf-Profile	0.0013		-0.0030	+0.0030	0.0013	---+*-	
POINT:PT14F Surf-Profile	0.0013		-0.0030	+0.0030	0.0013	---+*--	
POINT:PT15F Surf-Profile	0.0012		-0.0030	+0.0030	0.0012	---+*--	
POINT:PT16F Surf-Profile	0.0013		-0.0030	+0.0030	0.0013	---+*--	
POINT:PT17F Surf-Profile	0.0006		-0.0030	+0.0030	0.0006	---+*--	
POINT:PT18F Surf-Profile	0.0003		-0.0030	+0.0030	0.0003	---*---	
POINT:PT19F Surf-Profile	0.0002		-0.0030	+0.0030	0.0002	---*---	
POINT:PT20F Surf-Profile	0.0002		-0.0030	+0.0030	0.0002	---*---	

Duration 46 mins 33 secs FAIL in:125 out:2 End of Report

CZ CHROMALLOY AZ

1. Approving National Aviation Authority Country	2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number
FAA/United States		C400718 - 1

4 Organization Name and Address:

Advanced Materials Technologies, Incorporated, 2015 West Alameda Drive Tempe, Arizona 85282, (ZT3R036M)

5. Work Order/Contract/Invoice Number

B23086

RO#

6. Item	7. Description	8. Part Number	9. Eligibility *	10. Quantity	11. Serial/Batch Number	12. Status/Work
1	SHROUD	3826141-7	N/A	1 EA	N/A / C400718	OVERHAULED

13. REMARKS: INSPECTED AND OVERHAULED IN ACCORDANCE WITH UNITED AIRLINES MANUALS 60-49-25-08/AR01, DATED 01/21/02, EID 60-49-25-08-00, DATED 12/04/02 AND FAA APPROVED DER ROUTIG AMT-4529/02-40.

"CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12/13 WAS CARRIED OUT IN ACCORDANCE WITH JAR 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER JAA ACCEPTANCE CERTIFICATE NUMBER: JAA.4020."

14. Certifies the Items identified above were manufactured in conformity to:

☐ Approved Design data and are in a condition for safe operation

☐ Non-Approved Design data specified in Block 13.

19. [X] 14CFR 43.9 Return to Service [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13 the work in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service

15. Authorized Signature	16. Approval/Authorization No.:	20. Authorized Signature	21. Approval/Certificate No:
			ZT3R036M
17. Name (Typed or Printed)	18. Date(m/d/y)	22. Name (Typed or Printed)	23. Date (m/d/y)
			3/16/2004

USER / INSTALLER RESPONSIBILITIES:

It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part/component assembly.

Where the user installer work in accordance with the national regulations of an Airworthiness Authority different than the Airworthiness Authority of the country specified in block 1, it is essential that the user installer work ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the Airworthiness Authority of the country specified in block 1.

Statements in block 14 and 19 do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user installer before the aircraft may be flown.

FAA Form 8130-3 (6-01)

* Installer must cross check eligibility with applicable technical data

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	07N3420645

4. Organization Name and Address:		5. Work Order/Contract/Invoice Number:
Honeywell International, Inc. 1944 E. Sky Harbor Circle Phoenix, AZ 85034	PRODUCTION APPROVAL TSOA	AL01098051 B41655

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial / Batch No:	12. Status / Work:
001	SHIELD INSUL	3826680-2	N/A TSO	000003	N/A. NOTE: (All serialization not referenced here is not required or traceable by HONEYWELL INC. Reference FAA order 8130.21c)	NEW

13. Remarks:

THIS FORM IS ISSUED AT 1944 E. SKY HARBOR CIRCLE PHOENIX, AZ 85034 AS AUTHORIZED BY THE PRODUCTION APPROVAL HOLDER AIRWORTHINESS APPROVAL - PARTS.

14. Certifies the items identified above were manufactured in conformity to:

- [X] Approved design data and are in a condition for safe operation.
- [ ] Non-approved design data specified in Block 13.

19. [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No:	20. Authorized Signature:	21. Approval/Certificate No:
Linda Fantechi	ODARF602216NM		
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
LINDA FANTECHI	02/24/04		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1. Approving National Aviation Authority:	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	4. Form Tracking Number:
FAA / United States		

5. Work Order, Contract, Inv#: B21611

6. Item	7. Description	8. Part No.	9. Qty	10. Unit	11. Serial No.	12. Status/Work
1					B21611	

13. Remarks:

The work specified in Block 12 was performed in accordance with the FAR Part 43 Appendix A(c)(1).

YES Engine Overhaul, Standard Engine or YES Assembly.

Engine Serviced by an Outside Vendor: YES

Certified Maintenance Facility Approval Number, Name, Cert. YES

Certified that the work specified in Block 12 was carried out in accordance with the FAA and with respect to that work the aircraft, component or engine is considered ready for return to service under the Airworthiness Certificate Number, Article.

14. Certifies the items identified above were manufactured in conformity to:	19. ☒ 14 CFR §43.9 Return to Service ☒ Other FAA, spec. in Block 13
☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13.	Certified that unless otherwise specified in Block 13, the work identified in Block 12 was accomplished in accordance with Part 43, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.
15. Authorized Signature: / 16. Approval/Auth. No.	20. Authorized Signature: Susan J. Moore / 21. Approval/Certificate No. WNBR711N
17. Name (Typed or Printed) / 18. Date (m/d/y):	22. Name (Typed or Printed): SUSAN J. MOORE / 23. Date (m/d/y): March 22, 2019

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

1. Approving National Aviation Authority/Country:	2. AUTHORIZED RELEASE CERTIFICATE	3. Form Tracking Number:
FAA / United States	FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	879804

4. Organization:	5. Work Order, Contract or Invoice No.
Praxair Surface Technologies, Inc. 441 Sackett Point Road North Haven, Connecticut 06473	166944

6.Item	7. Description	8. Part Number	9.Eligibility*	10.Quantity	11.Serial/Batch Number	12.Status/Work
1	SEAL-ROTOR	DEC31-167-501	N/A	1	RJ1KH	REPAIRED

13. Remarks

E/M GTCP331-200/-250 ATA: 49-23-49.
REPAIR WG01-15
.008/.010" THICKNESS OF LC-1C (CHROME CARBIDE) COATING APPLIED.

Praxair Surface Technologies, Inc. certifies that the work specified in block 12/13 was carried out in accordance with Jar 145 and with respect to that work the aircraft component is considered ready for release to service under JAA Acceptance Certificate Number: JAA.4768

14. Certifies the items identified above were manufactured in conformity to:

☐ Approved design data and are in a condition for safe operation.

☐ Non-approved design data specified in Block 13.

19. ☒ 14 CFR 43.9 Return to Service ☒ Other Reg. spec. in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.	20. Authorized Signature:	21. Approval Certificate Number:
			OY25074L
17. Name (Typed or Printed)	18. Date (m/d/y):	22. Name (Typed or Printed)	23. Date (m/d/y):
		James P. O'Dell	3/11/04

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1. Approving Civil Aviation Authority/Country: FAA / United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	4. Form Tracking Number:

5. Work Order, Contract, Inv#: B21610

8. Item	9. Description	10. Part Number	11. Serial No.	12. Status/Work
1	[illegible]	[illegible]	B21610	[illegible]

13. Remarks:

This item is eligible for export under the provisions of 22 CFR Part 123 or 22 CFR Part 125 as applicable.

yes Engine Model, Condition Explanation

yes Propeller

NOTE: Serial Number Information Only

yes

EC-130 Pharmaceutical Cargo Aircraft
Kennedy, North Haven, Conn.

yes

Certifies that the work specified in Block 12 was carried out in accordance with 14 CFR 43 and with respect to that work the aircraft component is considered ready for release to service unless Certification Number(s) [illegible] is/are specified in Block 13.

14. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13.	15. Authorized Signature:	16. Approval/Auth. No.	14. ☒ 14 CFR 43.9 Return to Service ☒ Other Reg. spec. in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.	20. Authorized Signature: Susan J. Moore	21. Approval/Certificate No. MNPR11K
	17. Name (Typed or Printed)	18. Date (m/d/y):		22. Name (Typed or Printed) Susan J. Moore	23. Date (m/d/y): March 22, 2016

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

[illegible]

1. Approving National Aviation Authority/Country:	2. AUTHORIZED RELEASE CERTIFICATE	3. Form Tracking Number:
FAA / United States	FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	879804

4. Organization:	5. Work Order, Contract or Invoice No.
Praxair Surface Technologies, Inc. 441 Sackett Point Road North Haven, Connecticut 06473	166944

6.Item	7. Description	8. Part Number	9.Eligibility*	10.Quantity	11.Serial/Batch Number	12.Status/Work
1	SEAL-ROTOR	DEC31-167-501	N/A	1	B-2161C	REPAIRED

13. Remarks

E/M GTCP331-200/-250 ATA: 49-23-49.
REPAIR WG01-15
.008/.010" THICKNESS OF LC-IC (CHROME CARBIDE) COATING APPLIED.

Praxair Surface Technologies, Inc. certifies that the work specified in block 12/13 was carried out in accordance with Jar 145 and with respect to that work the aircraft component is considered ready for release to service under JAA Acceptance Certificate Number: JAA.4768

14. Certifies the items identified above were manufactured in conformity to:	19. [X] 14 CFR 43.9 Return to Service [X] Other Reg. spec. in Block 13
[ ] Approved design data and are in a condition for safe operation. [ ] Non-approved design data specified in Block 13.	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.	20. Authorized Signature:	21. Approval Certificate Number:
			OY25074L
17. Name (Typed or Printed)	18. Date (m/d/y):	22. Name (Typed or Printed)	23. Date (m/d/y):
		James P. O'Dell	3/11/04

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	DEC040220-4163-3245 265586 02/27/04 cc
4. Organization Name and Address: DEC TECHNOLOGIES, INC., 501 INDUSTRIAL PARK ROAD, PINBY FLATS, TN 37686 PQ1469CE		5. Work Order/Contract/Invoice Number: TRA118140

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	SEAL ASSEMBLY, COMPRESSOR	DEC31-157-501	TO BE VERIFIED BY INSTALLER	82	45556	NEW

13. Remarks:

"THIS PMA PART IS NOT A CRITICAL COMPONENT", "AIRWORTHINESS APPROVAL" END

FV-526 -2
NV-520 -1
NV-526 -1

PO#B41765

14. Certifies the items identified above were manufactured in conformity to:

- ☑ Approved design data and are in a condition for safe operation.
- ☐ Non-approved design data specified in Block 13.

19. 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
Dennis Scalf	DMIR 511218CE		
17. Name (Typed or Printed): Dennis Scalf	18. Date (m/d/y): February 20, 2004	22. Name (Typed or Printed):	23. Date (m/d/y):

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 3, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 3.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

FAA Form 8130-3 (6-01) *Installer must cross-check eligibility with applicable technical data. NSN: 0052-00-012-9005

1. Approving National Aviation Authority/Country	2.	3. Form Tracking Number
FAA / United States of America	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	66456
4. Organization Name and Address: ***Precise Metal Products Company 3839 North 39th Avenue Phoenix, AZ 85019***		5. Work Order/ Contract/Invoice Number: B23213 R.O. #

6. Item	7. Description	8. Part Number	9. Eligibility	10. Quantity	11. Serial/ Batch Number	12. Status/Work:
1	Insert Sound Attenuator	3810210-4	N/A	1	66456	Overhauled

13. Remarks:

Overhauled per U.A.L. Repair Manual 49-22-03 /AR03 Dated 9-4-97

NOTE: The work specified in block 12 & 13 was carried out IAW FAR 145, JAR 145 & released under JAA 4775 / FAA Repair Station #VL3R923L

14. Certifies the items identified above were manufactured in conformity to:	19. [X] 14 CFR 43.9 Return to Service [X] Other regulation specified in Block 13
[ ] Approved design data and are in a condition for safe operation [ ] Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal regulations, Part 43 and in retrospect to that work, the items are approved for return to service

15. Authorized Signature	16. Approval / Authorization No.	20. Authorized Signature	21. Approval / Certificate No.: VL3R923L
17. Name (Typed or Printed)	18. Date (m/d/y):	22. Name Typed or Printed): David M. Holmes	23. Date (m/d/y): March 23, 2004

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

FAA Form 8130-3 (6-01) *Installer must cross-check eligibility with applicable technical data.

Precise Metal Products Company

3839 N. 39th Avenue
Phoenix, Arizona 85019
Phone (602) 272-2625

Overhaul & Repair Receiving Inspection and Teardown Report

Customer:	CHROMALLOY	Job Number:	66456
Part No.	3810210-4	Serial No.	N/A
P.O., W.O.	B23213	R.O.	
Quantity Received	1	Other:	

Part Evaluation

Customer Defects Noted:

N/A

Customer Work Instructions:

Repair, Overhaul, or Exchange as required
Reference Auth---Doc UAL Spec 49-22-03/AR03
Rework codes 300, 304

PMP Receiving Inspection Findings:

Acoustic backing has Dents and Holes
Back outer ring has Fretting
Inner ring has Fretting
Part is Bent

Findings during and after repair (Hidden Damage)

None ☑

Comments:

Date: February 16, 2004

Inspector's Signature: D Holmes

Repair Station # VL3R923L
JAA Approved # JAA.4775

CZ CHROMALLOY AZ

1. Approving National Aviation Authority (country)	2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number
FAA/United States		C401970 - 1

4. Organization Name and Address	5. Work Order/Contract/Invoice Number
Advanced Materials Technologies, Incorporated, 2015 West Alameda Drive Tempe, Arizona 85282, (ZT3R036M)	B22840W RO#

6. Item	7. Description	8. Part Number	9. Eligibility *	10. Quantity	11. Serial/Batch Number	12. Status/Work
1	INLET HOUSING ASSY	3810176-9	N/A	1 EA	N/A / C401970	OVERHAULED

13. REMARKS:

INSPECTED AND OVERHAULED IN ACCORDANCE WITH UNITED AIRLINES MANUAL *60-49-25-15/AR01, DATED 03/11/02* AND FAA APPROVED DER ROUTING AMT-1827/97-68. P/N 3810176-7 MODIFIED TO P/N 3810176-9 ORIGINALLY WORKED UNDER WO C400112

"CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12/13 WAS CARRIED OUT IN ACCORDANCE WITH JAR 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER JAA ACCEPTANCE CERTIFICATE NUMBER: JAA.4020."

14. Certifies the items identified above were manufactured in conformity to:

☐ *Approved* Design data and are in a condition for safe operation

☐ Non-Approved Design data specified in Block 13.

19. [X] 14CFR 43.9 Return to Service [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13 the work in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service

15. Authorized Signature	16. Approval/Authorization No.:	20. Authorized Signature	21. *Approval Certificate No:*
		Acla Baker	ZT3R036M
17. Name (Typed or Printed)	***18. Date(m/d/y)***	**22. Name** *(Typed or Printed)*	**23. Date (m/d/y)**
		Acla Baker	3/12/2004

USER / INSTALLER RESPONSIBILITIES:

It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part component assembly.

Where the user installer work in accordance with the national regulations of an Airworthiness Authority different than the *Airworthiness Authority of the country specified in block 1*, it is essential that the user installer work ensures that his/her Airworthiness Authority accepts parts components assemblies from the Airworthiness Authority of the country specified in block 1.

Statements in block 14 and 19 do not constitute installation certification. In all cases aircraft maintenance records must contain an *installation certification issued in accordance with the national* regulations by the user installer before the aircraft may be flown.

** Installer must cross check eligibility with applicable technical data*

1. Approving National Aviation Authority (Country)	2.	3. Form Tracking Number
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	RK978-707

4. Organization Name and Address	5. Work Order, Contract or Invoice Number
CHROMALLOY ARIZONA 5161 W. Polk Street, Phoenix, AZ 85043	S303376

6. Item	7. Description	8. Part Number	9. Eligibility *	10. Quantity	11. Serial/Batch Number	12. Status/Work
1	Bearing Ring	3826160-2	n/a	1	RK978-707	Overhauled

13. Remarks

WORK ORDER
The work described in block 12 was performed in accordance with:
IRM 49-23-49 Rev. 15, 09/29/2000
UAL 49-22-02/AR02

Certifies that the work specified in block 12/13 was carried out in accordance with JAR 145 and with respect to that work the aircraft component is considered ready for release to service under JAA Acceptance Certificate Number: JAA.4325

14. Certifies the item identified above were manufactured in conformity to:
[ ] Approved design data and are in a condition for safe operation.
[ ] Non-approved design data specified in Block 13

19. [X] 14 CFR 43.9 Return to Service [ ] Other regulation specified in block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished with Title 14, Code of Federal Regulations, part 43 and in respect to the work, the items are approved for return to service.

15. Authorized Signature:	16. Approval Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
		Patricia J Peterson	TR3D877L
17. Name (Typed or Printed):	**18. Date (mm/dd/yyyy):**	**22. Name (Typed or Printed):**	**23. Date (mm/dd/yyyy):**
		PATRICIA J PETERSON	03/15/2004

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component assembly.

Where the user/installer work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1 it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components assemblies from the airworthinessauthority of the country specified in block 1.

Statements in block 14 and 19 do not constitute installation certification in all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user installer before the aircraft may be flown.

*Installer must cross check eligibility with applicable technical data.

ISSN 0852-00-012-9005

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	L0400525295

4. Organization Name and Address		5. Work Order/Contract/Invoice Number:
Honeywell International, Inc. 1944 E. Sky Harbor Circle Phoenix, AZ 85034	PRODUCTION APPROVAL TSOA	H9U758-001 B23058 001

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial / Batch No:	12. Status / Work:
001	HSG ASSY	3810187-2	N/A TSO	000001	N/A. NOTE: (All serialization not referenced here is not required or traceable by HONEYWELL INC. Reference FAA order 8130.21c)	NEW

13. Remarks:

THIS FORM IS ISSUED AT 1944 E. SKY HARBOR CIRCLE PHOENIX, AZ 85034 AS AUTHORIZED BY THE PRODUCTION APPROVAL HOLDER AIRWORTHINESS APPROVAL - PARTS.

14. Certifies the items identified above were manufactured in conformity to:

- [X] Approved design data and are in a condition for safe operation.
- [ ] Non-approved design data specified in Block 13.

19. [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.	20. Authorized Signature:	21. Approval/Certificate No.
Linda Fantechi	ODARF602216NM		
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
LINDA FANTECHI	02/02/04		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts part/component/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

*Installer must cross-check eligibility with applicable technical data.

1. Approving National Aviation Authority/Country:	2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number:
FAA/United States		07N3336122

4. Organization Name and Address		5. Work Order/Contract/Invoice Number:
Honeywell International, Inc. 1944 E. Sky Harbor Circle Phoenix, AZ 85034	PRODUCTION APPROVAL TSOA	AL01068897 B41243

6. Item:	7. Description:	8. Part Number:	9. Eligibility *	10. Quantity:	11. Serial / Batch No:	12. Status / Work:
001	BELL CRANK ASSY	3826527-2	N/A TSO	000003	N/A. NOTE: (All serialization not referenced here is not required or traceable by HONEYWELL INC. Reference FAA order 8130.21c)	NEW

13. Remarks:

THIS FORM IS ISSUED AT 1944 E. SKY HARBOR CIRCLE PHOENIX, AZ 85034 AS AUTHORIZED BY THE PRODUCTION APPROVAL HOLDER AIRWORTHINESS APPROVAL - PARTS.

1 pc. shipped seperately

14. Certifies the items identified above were manufactured in conformity to:

[X] Approved design data and are in a condition for safe operation.

[ ] Non-approved design data specified in Block 13.

19. [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No:	20. Authorized Signature	21. Approval/Certificate No:
Joyce Albers	ODARF602216NM		
17. Name (Typed or Printed):	18. Date (m/d/y):	22. Name (Typed or Printed):	23. Date (m/d/y):
JOYCE ALBERS	12/02/03		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	743107

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
HONEYWELL INTERNATIONAL - ENGINES, SYSTEMS & SERVICES (PC413) P.O. BOX 52181 PHOENIX, AZ 850722181 c/o HARDWARE PRODUCT GROUP 1405 W. 240TH ST. HARBOR CITY, CA 90710	2032122 002

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	BEARING	137-542-9501 ****** L A S T I T E M ******	ALF502R-5 ALF502R-3A	16 EA	Lot# 0303007030 MLot:0230310	NEW

13. Remarks:

EXPORT. DIRECT SHIPMENT AUTHORIZATION.

Customer P.O. # B40108

It is hereby certified that (a) the parts and/or materials reflected herein were produced under Federal Aviation Administration approved manufacturing and quality control systems/methods as set forth in FAA Production Approval to manufacture issued to Honeywell International Inc. and (b) such parts and/or materials are in an airworthy condition. Direct ship authorization from the Production Approval Holder is on file.

Per FV390

14. Certifies the items identified above were manufactured in conformity to:

- [X] Approved design data and are in a condition for safe operation.
- [ ] Non-approved design data specified in Block 13.

19. [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
Frank J. Mitchell	ODARF602216NM		
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
Frank Mitchell	03/06/03		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1. Agency and National Authority
FAA UNITED STATES

AUTHORIZED RELEASE CERTIFICATE

FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number
P05-[illegible]

4. Organization Name and Address
CHROMALLOY ARIZONA
9141 W. Polk Street, Phoenix, AZ 85043

5. Work Order or Contract or Invoice Number
S298210

6. Item	7. Description	8. Part Number	9. Eligibility	10. Quantity	11. Serial/Batch Number	12. Status/Work
1	IGV Actuator Mount	3826154-1	N/A	1	RI513 676	Overhauled

13. Remarks

WORK ORDER
The work described in block 12 was performed in accordance with:
IRM 49-23-49 Rev. 15, 09/29/2000
UAL BID 60-49-25-11-00
UAL 49-25-11/AR01, 08/09/1995

Certifies that the work specified in block 12/13 was carried out in accordance with JAR 145 and with respect to that work the aircraft component is considered ready for release to service under JAA Acceptance Certificate Number: JAA.4325

14. Certifies the item identified above were manufactured in conformity to:
[ ] Approved design data and are in a condition for safe operation.
[ ] Non-approved design data specified in Block 13

19. [X] 14 CFR 43.9 Return to Service [X] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished with Title 14, Code of Federal Regulations, part 43 and in respect to the work, the items are approved for return to service

15. Authorized Signature:	16. Approval Authorization No.:	20. Authorized Signature:	21. Approval Certificate No:
		Tammy Hellard	TR3D877L
17. Name (Typed or Printed):	18. Date (mm/dd/yyyy):	22. Name (Typed or Printed): TAMMY HELLARD	23. Date (mm/dd/yyyy): 02/23/2004

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component assembly.

Where the user installer work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1 it is essential that the user installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the airworthiness authority of the country specified in block 1

Statements in block 14 and 19 do not constitute the installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user installer before the aircraft may be flown

FAA Form 8130-3 (10/2001)
FORM #CAZ1950 Rev. 04/2002

*Installer must cross check eligibility with applicable technical data

NSN 0052-00-0102-9065

1. Approving National Aviation Authority/Country:
FAA/United States

2. **AUTHORIZED RELEASE CERTIFICATE**
FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number:
07N3361607

4. Organization Name and Address:
Honeywell International, Inc.
1944 E. Sky Harbor Circle
Phoenix, AZ 85034

PRODUCTION APPROVAL
TSOA

5. Work Order/Contract/Invoice Number:
ALC1077808
D3MA3927146

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial / Batch No:	12. Status / Work:
001	CARRIER	3826125-1	N/A TSO	000001	N/A. NOTE: (All serialization not referenced here is not required or traceable by HONEYWELL INC. Reference FAA order 8130.21c)	NEW

13. Remarks:
THIS FORM IS ISSUED AT 1944 E. SKY HARBOR CIRCLE PHOENIX, AZ 85034 AS AUTHORIZED BY THE PRODUCTION APPROVAL HOLDER AIRWORTHINESS APPROVAL - PARTS.

PO# 841735

14. Certifies the items identified above were manufactured in conformity to:
[X] Approved design data and are in a condition for safe operation.
[ ] Non-approved design data specified in Block 13.

19. [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13
Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature: Greg Rector

16. Approval/Authorization No:
ODARF6022I6NM

20. Authorized Signature:

21. Approval/Certificate No:

17. Name (Typed or Printed):
GREG RECTOR

18. Date (m/d/y):
12/27/03

22. Name (Typed or Printed)

23. Date (m/d/y):

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

*Installer must cross-check eligibility with applicable technical data.

1. Approving National Aviation Authority/Country: **FAA/United States**

2. # AUTHORIZED RELEASE CERTIFICATE
FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number: 07N3361607

4. Organization Name and Address:
Honeywell International, Inc.
1944 E. Sky Harbor Circle
Phoenix, AZ 85034

PRODUCTION APPROVAL
TSOA

5. Work Order/Contract/Invoice Number:
AL01077808
D3MA3927146

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial / Batch No:	12. Status / Work:
001	CARRIER	3626125-1	N/A TSO	000001	N/A. NOTE: (All serialization not referenced here is not required or traceable by HONEYWELL INC. Reference FAA order 8130.21c)	NEW

13. Remarks:
THIS FORM IS ISSUED AT 1944 E. SKY HARBOR CIRCLE PHOENIX, AZ 85034 AS AUTHORIZED BY THE PRODUCTION APPROVAL HOLDER AIRWORTHINESS APPROVAL - PARTS.

PO# B41735

14. Certifies the items identified above were manufactured in conformity to:
[X] Approved design data and are in a condition for safe operation.
[ ] Non-approved design data specified in Block 13.

19. [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13
Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature: Greg Rector

16. Approval/Authorization No: ODARF602216NM

17. Name (Typed or Printed): GREG RECTOR

18. Date (m/d/y): 12/27/03

20. Authorized Signature:

21. Approval/Certificate No:

22. Name (Typed or Printed):

23. Date (m/d/y):

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

*Installer must cross-check eligibility with applicable technical data.

NSN:0052-00-012-9005

VOLVO AERO SERVICES LP

VOLVO

Part or Material Certification Form

ISO9001, ASA100 - ATA Specification 106

1. Seller's Name: Volvo Aero Services LP

3. Reference # D3MA3928

4. VOLVO AERO SERVICES LP
645 Park of Commerce Way
Boca Raton, 33487

Phone # : (561) 998-9330
Fax # : (561) 998-9714
SITA/Wire Code : FLLGDXD
Status : Surplus Parts Provider

5a. Seller's Contract Number : 004345010

5b. Buyer's P.O. Number : B41735; CHROMALLOY GAS TURBINE CORP

6. Item	7. Description	8a. Part Number	8b. Manufacturer	9. Eligibility	10. Quantity	11. Serial/Batch	12. Status
1	CARRIER	3826125-1	ALLIEDSIGNAL INC	T.B.V	1	NSN	NEW

13a. REMARKS:

PO# B41735

13b. Obtained from: HONEYWELL

Traceable to: 145 HONEYWELL INTERNATIONAL INC

13c. Last Certified By: N/A

Last Cert Date: Cert. No.

TO THE BEST OF OUR KNOWLEDGE BASED ON THE INFORMATION PROVIDED BY THE SUPPLIER IDENTIFIED IN BLOCK 13b, THE PART(S) DESCRIBED ABOVE WERE NOT OBTAINED FROM ANY GOVERNMENT OR MILITARY SOURCE NOR SUBJECTED TO CONDITIONS AS DEFINED IN FAA AC 20-62D Para 8(c)2 (EXTREME STRESS, SUDDEN STOPPAGE, HEAT, MAJOR FAILURE OR ACCIDENT).

14. New Parts/Material Certification

The following signature attests that to the best of our knowledge, based on the information provided by the supplier identified in Block 13b, the part(s) or material(s) identified above was (were) manufactured by an FAA Production Approval Holder or to an industry or commercial standard.

[redacted]

Signature

Name PAULA BAILEY

For Volvo Aero Services
Quality Assurance

Date 03/10/04

Notice: the above signature binds the signer and the SELLER to the accuracy of the information provided in this Form. Should the information provided in this FORM contain inaccuracies or misrepresentations, the signer and the SELLER be liable for damages and are subject to criminal prosecution under state and federal law.

Honeywell

Honeywell International Inc.
1944 E. Sky Harbor Circle
Phoenix, Arizona 85034
United States of America

SHIPPER/INVOICE

PAGE
INV DATE
INV NO
SHIP DATE
PARTIAL / FINAL

SEE BELOW
2[illegible]/03
CONSOL INV [illegible]/03

SOLD TO 699
VOLVO AERO SERVICES LP
645 PARK OF COMMERCE WAY
BOCA RATON, FL 33487

PT TO [illegible]
VOLVO AERO SERVICES LP
645 PARK OF COMMERCE WAY
BOCA RATON, FL 33487
ACCT# 1411-8042-9

VIT TO PTT
HONEYWELL
AERONAUTICAL SERVICES
P. O. BOX [illegible]3020)
PHOENIX, AZ 85036-0020

BILL TO 699
VOLVO AERO SERVICES LP
ATTN: ACCOUNTS PAYABLE
645 PARK OF COMMERCE WAY
BOCA RATON, FL 33487

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NO [illegible] NO OF 1
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MARKS FX ACCT 1411-8042-9

RCHASE ORDER

CUSTOMER ORDER

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1	[illegible]	SEAL	1	EA		

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[illegible]
ATTN: [illegible]
[illegible]
[illegible]

[illegible]

[illegible]

NE NO	PART NUMBER	DESCRIPTION	QTY	UM	UNIT PRICE	EXTENDED PRICE
2	[illegible]	[illegible]	1	EA		

[illegible]

oneywell certifies that the product(s) described hereon conform to the applicable ntractual requirements, TSO C77 as applicable, and were procured or anufactured in accordance with Honeywell's Quality Assurance system approved by e United States Government where applicable.

TEPHEN J. McGINN

Stephen J. McGinn

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

8201 (2/00)

Honeywell

Honeywell International Inc.
1944 E. Sky Harbor Circle
Phoenix, Arizona 85034
United States of America

SHIPPER/INVOICE

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SEE BELOW
05/15/03
CONSOL NO. AE0107800

PTO
VOLVO AERO SERVICES LP
645 PARK OF COMMERCE WAY
BOCA RATON, FL 33487
ATTN: ACCOUNTS PAYABLE # 1411-6047-9

SOLD TO
VOLVO AERO SERVICES LP
645 PARK OF COMMERCE WAY
BOCA RATON, FL 33487

VIT TO
[illegible]

BILL TO
VOLVO AERO SERVICES LP
ATTN: ACCOUNTS PAYABLE
645 PARK OF COMMERCE WAY
BOCA RATON, FL 33487

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		"BEST PRODUCT" UNDER FEDERAL AVIATION ADMINISTRATION (FAA) APPROVED MANUFACTURI AND QUALITY CONTROL SYSTEMS/METHODS (TSOA, PMA, AND/OR PC), OR [illegible] EQUIVALENT [illegible] SPECIFICATIONS, AND (C) SUCH PARTS AND/OR MATERIALS ARE NEW AND CONFORM TO DRAWING, AND ARE IN AN AIRWORTHY CONDITION				
1	[illegible]	CARRIER DEL	1 EA			1

[illegible] 03
[illegible] PO: 4500250931 CUST ORD: D3A039237147
IT IS HEREBY CERTIFIED THAT (a) THE PARTS AND/OR MATERIALS DESCRIBED HEREIN [illegible] "BEST PRODUCT" UNDER FEDERAL AVIATION ADMINISTRATION (FAA) APPROVED MANUFACTURI AND QUALITY CONTROL SYSTEMS/METHODS (TSOA, PMA, AND/OR PC), OR [illegible] EQUIVALENT [illegible] SPECIFICATIONS, AND (C) SUCH PARTS AND/OR MATERIALS ARE NEW AND CONFORM TO DRAWING, AND ARE IN AN AIRWORTHY CONDITION

[redacted]

[illegible]

oneywell certifies that the product(s) described hereon conform to the applicable ontractual requirements, TSO C77 as applicable, and were procured or anufactured in accordance with Honeywell's Quality Assurance system approved by ne United States Government where applicable

TEPHEN J McGINN

Stephen J. McGinn

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

A8001 12/00

Honeywell

Honeywell International Inc.
1944 E. Sky Harbor Circle
Phoenix, Arizona 85034
United States of America

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Honeywell certifies that the product(s) described hereon conform to the applicable contractual requirements, TSO C77 as applicable, and were procured or manufactured in accordance with Honeywell's Quality Assurance system approved by the United States Government where applicable.

STEPHEN J McGINN

Stephen J. McGinn

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GA8C01 (2/00)

Honeywell

Honeywell International Inc.
1944 E. Sky Harbor Circle
Phoenix, Arizona 85034
United States of America

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CONTINUED TO NEXT PAGE

Honeywell certifies that the product(s) described hereon conform to the applicable contractual requirements, TSO C77 as applicable, and were procured or manufactured in accordance with Honeywell's Quality Assurance system approved by the United States Government where applicable.

STEPHEN J. McGINN

Stephen J. McGinn

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

GTCP331-200 APU IMPELLER DRIVEN COMPRESSOR
PER EID 49-25-19-00 02/05/99

ALWAYS REFER TO THE SPECIFICATION TO VERIFY TOLERANCES

OPERATOR NAME: PAUL PREVELE
LOT NUMBER: 552999
PART NUMBER: 3822080-3
SERIAL NUMBER: 1-501-1732

PROFILE OF THE VOLUTED SURFACE

BLADE 1

(in) GAUGE POINT	ACTUAL	NOMINAL	LO-TOL	HI-TOL	DEVIATION	GRAPHIC	ERROR
POINT:10601 Surf-Profile	0.0000		-0.0030	+0.0030	0.0000	---*---	
POINT:10602 Surf-Profile	0.0001		-0.0030	+0.0030	0.0001	---*---	
POINT:10603 Surf-Profile	0.0006		-0.0030	+0.0030	0.0006	---*---	
POINT:10604 Surf-Profile	-0.0008		-0.0030	+0.0030	-0.0008	--*+---	
POINT:10605 Surf-Profile	-0.0010		-0.0030	+0.0030	-0.0010	--*+---	
POINT:10606 Surf-Profile	-0.0021		-0.0030	+0.0030	-0.0021	-*--+---	
POINT:10607 Surf-Profile	-0.0015		-0.0030	+0.0030	-0.0015	-*--+---	
POINT:10608 Surf-Profile	-0.0014		-0.0030	+0.0030	-0.0014	--*+---	
POINT:10609 Surf-Profile	-0.0014		-0.0030	+0.0030	-0.0014	--*+---	
POINT:10610 Surf-Profile	-0.0010		-0.0030	+0.0030	-0.0010	--*+---	
POINT:10611 Surf-Profile	-0.0009		-0.0030	+0.0030	-0.0009	--*+---	
POINT:10612 Surf-Profile	-0.0013		-0.0030	+0.0030	-0.0013	--*+---	
POINT:10613 Surf-Profile	-0.0012		-0.0030	+0.0030	-0.0012	--*+---	

(in)	ACTUAL	NOMINAL	LO-TOL	HI-TOL	DEVIATION	GRAPHIC	ERROR
POINT:10014							
Surf-Profile	-0.0012		-0.0030	+0.0030	-0.0012	--*+---	
POINT:10015							
Surf-Profile	0.0022		-0.0030	+0.0030	-0.0022	-*-+---	
POINT:10016							
Surf-Profile	-0.0020		-0.0030	+0.0030	-0.0020	-*-+---	

Duration 14 mins 9 secs PASS in:16 out:0 End of Report

WORK CENTER: 551

SERIAL NBR	ET	MT	NAME	PWR RTG	CUST
61913	V		APU331	200E	UA

ORDER NUMBER
V518

COAS FOR MODULE TYPE F - SERIAL NUMBER P1372 MODULE NAME: DRIVEN COMP SE WORK CENTER: 551

COA NUMBER	COA CAT	MODULE/ FUNC NBR	UNIT SERIAL	UNIT COA STATUS	ISS	COMP	COA TITLE	COMPLETION DATE
5-9089	4	00988	UA00194244	COMPLETED			757/767 GTCP331 APU IGV BUSHNG-UPGRADE	06/12/95

UNITED AIRLINES - MASTER ICS/BOM

Effectivity 331-200ER APU Engine Manual - Inspection and Condition Sheet

Origination Date: 2/19/2004

~~GEARBOX MODULE "AX"~~ CLUTCH MODULE LV1209 ALL PARTS CONTAINED WITHIN ARE NON HAZMAT

60-49-26-01-00 ICS

MODULE ORDER # LV507

EON V507 | ESN 60189 | VADE # | CUSTOMER UAL | MODULE SERIAL #

DISPOSITION CODES:

E =	PART MEETS DETAIL PART EID REQUIREMENTS (ZERO TIME SINCE DETAIL PART INSPECTION)
A =	EXPOSED AREA OF PART MEETS VISUAL REQUIREMENTS OF APPROPRIATE EID (CONTINUED TIME SINCE DETAIL PARTS INSPECTION)
C =	PART ROUTED OR CORRECTIVE ACTION TAKEN
ATA# ____ = S/L - SEQ	EID NUMBER [49 precedes numbers shown (49) 31-XX] SECTION / LIST - SEQUENCE NUMBER
EPM ____ = FUNC #	STAMP TO INDICATE PART OFF-LOG FROM MODULE FUNCTION NUMBER

INSPECTION NOTES

(STAMP OFF APPROPRIATE DISPOSITION CODE. MORE THAN ONE CODE MAY BE STAMPED.)
(INDICATE CONDITION OF UNSERVICEABLE PARTS REGARDLESS OF CONDITION.)
(TO CLEAR PARTS NOT EXPOSED DRAW A LINE THROUGH THE COMPLETE ENTRY AND STAMP IN LEFT MARGIN.)
(IF PART IS ROUTED ON AN R & R TAG IT IS MANDATORY TO STAMP THE APPLICABLE "E" "A" OR "C" BLOCK AND WRITE R & R IN THE "C" BLOCK THEN COMPLETE THE APPROPRIATE COMPUTER TRANSACTION.)
(ALL PARTS NEEDING REPAIR WILL HAVE AN IDENTIFICATION TAG WITH PART NUMBER, SERIAL NUMBER (IF APPLICABLE) AND THE QUANTITY, ATTACHED TO THE PART.)
(PARTS THAT DO NOT HAVE SPECIFIC EID'S WRITTEN FOR THEM MUST BE VISUALLY INSPECTED FOR GENERAL CONDITION PER 331-500 BOOK "0" 20-49-00-00, INTRODUCTION, SECTION 4, PARA A, STATEMENT 4.

MODULE INSPECTION GUIDE

(1) Module seperated from adjoining modules, inspected and found serviceable per ..... EID 60-49-21-00-00 [ZERO (TSMI) No parts removed from module. No additional sign-off required.

(2) Module partially or completely disassembled. Removed parts and / or exposed areas inspected ~~T209A~~ ... per appropriate EID (ZERO TSDPI).

Control Date: 20031203

Gearbox mod "AV" I & C Sheet page 2 of 7 **Revision Date** 2/25/2004 **Name**

APU S/N	60189	TSLV		EON	V507
Total Time		CSLV		P.O.	
Total Cycles				Date Rcvd.	

CAZ SHIP TO DATE | CAZ RET DATE

MODULE ORDER # LV507
MODULE SERIAL #

Inspection Use Only				Hardware Info					Stores Use			
E	A	C	OFF-LOG FUNC #	Description	P/N TYPICAL	PCN	ATA = S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
				BEARING FAN IDLER	358024	245-0395	26-00-01 01-410	2				
			5642	BEARING OIL PUMP	358027	245-0397	26-00-01 01-420	2				
			5643	BEARING HI SPEED PINION	3860158-1	265-0258	26-00-01 01-430	2				
			5644	BEARING GEN IDLER	3860173-1	265-0263	26-00-01 01-440	2				
			5645	BEARING ROLLER GEN	3605094-1	265-4339	26-00-01 01-450	2				
			5646	BEARING IDLER	358457-1	245-0399	26-00-01 01-460	2				
			5647	BEARING BALL OUTER RACE	3860496-1	265-3161	26-00-01 01-490	1				
			9267 EPM 0987	HOUSING ASSY	3862699-3	265-3164	26-02-00 01-300	1				
			EPM 0987	HOUSING ASSY	3862219-7	265-0499	26-02-00 01-300	1				
			2233	GEAR ASSY OIL PUMP	3860165-2	265-0260	26-03-00 01-120	1				
			2230	GEAR GENERATOR IDLE	3860181-1	265-0265	26-04-00 01-160	1				
			2229	GEAR ASSY SPUR	3860182-2	265-3080	26-05-00 01-130	1				
			2231	GEARSHAFT GEN DRIVE	3860180-6	265-0264	26-06-00 01-200	1				
			2237	GEAR FAN IDLER	3860169-5	265-0120	26-08-00 01-140	1				
			5637	JET OIL	3862187-1	265-0136	26-10-00 01-250	1				
			5628	TUBE	3613699-1	265-3171	26-11-00 01-080	1				
			5636	TUBE	3862182-1	265-0135	26-11-00 01-240	1				

Effectivity 331-200ER

Gearbox mod "AV " I & C Sheet page 3 of 7

APU S/N	60189	EON	V507
		P.O.	

CAZ SHIP TO DATE

CAZ RET DATE

MODULE ORDER # LV507

MODULE SERIAL #

Inspection Use Only					Hardware Info					Stores Use			
E	A	C	OFF-LOG FUNC #	COND/ROUTING	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
1209A			5627		TUBE	3862185-3	265-0496	26-17-00 01-070	1209A				
			5638		TUBE	3862550-1	265-0137	26-12-00 01-260	1				
			5625		JET	3862444-2	265-3057	26-13-00 01-050	1				
			5624	DO NOT SHIP TO CAZ-UAL STOCKED	JET	3862140-5	265-0273	26-13-00 01-040	1				
			5626	DO NOT SHIP TO CAZ-UAL STOCKED	JET	3862140-4	265-0272	26-13-00 01-060	1				
			5633		TUBE TRANSFER	3862226-4	265-0501	26-14-00 01-210	1				
			2232		GEAR HI SPEED PINION	3860166-1	265-0261	26-16-00 01-150	1				
			5622		HOUSING FILLER	3862385-1	265-3192	26-21-00 01-020	1				
			5788		HOUSING GEN SCAVENGE	3880205-3	265-0313	90-02-01 60-000	1				
			5791		GEAR SPUR	3880204-2	265-3139	90-02-03 60-030	1				
			5792		GEARSHAFT	3860326-10	265-3076	90-02-03 60-040	1				
1209A			5793		~~GEARSHAFT~~	~~3860326-11~~	~~265-3077~~	90-02-03 60-050	1209A				

Gearbox mod "AV " I & C Sheet page 4 of 7 **(LV PARTS)**

APU S/N	60189	EON	V507
		P.O.	

CAZ SHIP TO DATE

CAZ RET DATE

MODULE ORDER # LV507

MODULE SERIAL #

Inspection Use Only					Hardware Info					Stores Use			
E	A	C	OFF-LOG FUNC #	COND/ROUTING	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
		I209A	5641	OSV	BEARING BALL STRTR GEAR (LV)	3860160-1	265-0259	26-00-01 05-020	1		1		
		I209A	9266	"	BEARING INNER RACE (LV)	3860495-1	265-3155	26-00-01 05-030	1		1		
		I209A	5649	"	BEARING BALL (LV)	892576-1	265-3646	26-00-01 05-060	1		1		
		I209A	5648	"	BEARING BALL SPLINED SHFT (LV)	3614423-1	265-0598	26-00-01 05-090	1		1		
I209A			5634		GEAR (LV) STARTER DRIVE	3860168-2	265-3058	26-07-00 05-040	1				
I209A			5640		CLUTCH ONE WAY (LV)	3611304-1	265-3090	26-07-01 05-080	1				
I209A			5639		PLUG (LV) STARTER DRIVE	3600053-1	265-0429	26-07-02 05-050	1				
I209A			5635		SHAFT SPLINE (LV)	3868023-1	265-3091	26-07-03 05-070	1				
I209A			5635		SHAFT SPLINE (LV)	DEC31-041 -501	265-3091	26-07-03 05-070	1				
I209A			5706		ADAPTER STRTR CLUTCH ASSY (LV)	3612120-1	265-3154	26-07-04 05-010	1				
		I209A		Disassy	LRU CLUTCH ASSY	3612844-1	265-3153		1				

NON EID PARTS BILL OF MATERIAL PARTS ONLY

331-200ER "AV" MODULE

EFF 331-200ER

APU S/N	60189	EON	V507
		P.O.	

CAZ SHIP TO DATE

CAZ RET DATE

MODULE ORDER # ..507

MODULE SERIAL #

Hardware Info							Stores Use			
COMMENT	IPC LOCATION	Description	P/N TYPICAL	PCN	ATA # S/L SEQ	Qty	UAL QTY	CAZ QTY	UAL/CAZ INITIAL	UAL RECV
	49-11-01A-001A-402	WASHER SPRING	352723-10	265-0131		1				
	49-26-00A-000C-090	WASHER SPRING	352723-53	265-0416		1				
	49-26-00A-000D-096	AIR OIL SEPARATOR	3610852-1	265-3086		1				
100% REPLACEMENT	49-26-00A-000A-190	WASHER TENSION	3610875-2	265-3653		1				
	49-26-00A-000C-050	RETAINER	3612363-1	265-3162		1				
	49-26-00A-000C-080	RETAINER	3862133-1	265-0267		1				
	49-26-00A-000C-030	RETAINER	3862135-1	265-0268		1				
	49-26-00A-000C-020	RETAINER	3862136-1	265-0269		1				
	49-26-00A-000C-070	RETAINER	3862183-1	265-0281		1				
	49-26-00A-000B-060	RETAINER	3862184-1	265-0282		1				
	49-26-00-001-110	CAP & ADAPTER	428-259	265-3002		1				
	49-90-00A-000B-130	SEAL ASSY ENCASED	3880267-1	265-0319		1				
		PLUG MAG	P201	265-0338		2				

HISTORY PAGE

CAZ Qty Total =

ENTER REASON FOR REVISION

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	836359

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
HONEYWELL INTERNATIONAL - ENGINES, SYSTEMS & SERVICES (TSO) P.O. BOX 52181 PHOENIX, AZ 850722181 c/o HARDWARE PRODUCT GROUP 1405 W. 240TH ST. HARBOR CITY, CA 90710	2613790 002

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	BEARING 1 of 2 AN504 2 of 2	3614423-1 ****** LAST ITEM ******	TSO Article N/A	2 EA	Lot# 0311008294 MLOC:MBA6910	NEW

13. Remarks: EXPORT. DIRECT SHIPMENT AUTHORIZATION.

Customer P.O. # B41102
It is hereby certified that (a) the parts and/or materials reflected herein were produced under Federal Aviation Administration approved manufacturing and quality control systems/methods as set forth in FAA Production Approval to manufacture issued to Honeywell International Inc. and (b) such parts and/or materials are in an airworthy condition. Direct ship authorization from the Production Approval Holder is on file.

14. Certifies the items identified above were manufactured in conformity to:

[X] Approved design data and are in a condition for safe operation.

[ ] Non-approved design data specified in Block 13.

19. [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13

Certifies that, unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
Barry E. Franklin	ODARF602216NM		
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
Barry E. Franklin	11/07/03		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

*Installer must cross-check eligibility with applicable technical data.

Honeywell

HONEYWELL
HARDWARE PRODUCT GROUP
1405 W 240TH ST
HARBOR CITY, CA 90710

REFERENCE NO. 23123622 PAGE 1

PURCHASE ORDER NO B41102

CERTIFICATE OF CONFORMANCE

CUSTOMER CODE 3281

CUSTOMER RELEASE NO.

SOLD TO
CHROMALLOY ARIZONA
ATTN: ACCOUNTS PAYABLE
5161 W. POLK STREET
PHOENIX AZ 85043

SHIP TO
CHROMALLOY ARIZONA
ATTN: RECEIVING
5150 W. VAN BUREN ST.
PHOENIX AZ 85043

SALES ORDER NO 2613789

ITEM NO	QUANTITY SHIPPED	U/M	PART NUMBER / DESCRIPTION	Manufacturer Lot#	HPG Lot#
1 ***	2.00	EA	3614423-1 BEARING QTY: 2 MFG. NAME : Honeywell REV LEVEL : A	MBA6910	0311008294

End of Certificate

*** Items are supplied under direct ship authority and (a) were produced by approved manufacturing and quality control systems/methods as set forth in the applicable FAA Production Approval (PC413, TSOA or PMA) issued to Honeywell International Inc. and (b) are new and in airworthy condition.

This is to certify that all articles delivered on this order conform to all applicable blueprint and specification requirements. Evidence of such is on file with us and our suppliers subject to examination.

HONEYWELL - HARDWARE PRODUCT GROUP

David Shenfield

Quality Assurance Director

1. Approving National Aviation Authority/Country	2.	3. From Tracking Number:
FAA/United States	**AIRWORTHINESS RELEASE CERTIFICATE** FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	86127

4. Organizations Name and Address:	5. Work Order/Contract/Invoice Number:
Timken Aerospace Services (PBC), 336 Mechanic Street, Lebanon NH 03766 (USA)	B22256/8004969

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10 Quantity:	11. Serial/Batch Number:	12 Status/Work:
1	BEARING	3860160-1	N/A	ONE	*UA03 S1998-400*	Overhauled

13. REMARKS:

Work was performed In-Accordance With: TAS RSUAL, 49-20-01/AR02

14. Certifies the items identified above were manufactured in conformity to:	19. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13
☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13.	Certifies, that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No:	20. Authorized Signature:	21. Certificate Number:
		Belinda J. Butterfield	QPBR408K
17. Name (typed or printed):	**18. Date (m/d/yy)**	**22 Name (typed or printed):**	**23. Date (m/d/yy)**
		Belinda J. Butterfield	October 14, 2003

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with national regulations by the user/installer before the aircraft may be flow.

1. Approving National Aviation Authority/Country	2.	3. From Tracking Number:
FAA/United States	**AIRWORTHINESS RELEASE CERTIFICATE** FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	60 86690

4. Organizations Name and Address:	4. Work Order/Contract/ Invoice Number:
Timken Aerospace Services (PBC), 336 Mechanic Street, Lebanon NH 03766 (USA)	8005287/B22260

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10 Quantity:	11. Serial/Batch Number:	12 Status/Work:
1	BEARING	892576-1	N/A	ONE	UA04 S1998-107	Overhauled

13. REMARKS:

Work was performed In-Accordance With: TAS RSUAL 49-20-01/AR02

14. Certifies the items identified above were manufactured in conformity to:	19. ☒ 14 CFR 43.9 Return to Service Other regulation specified in Block 13
☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13.	Certifies, that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No:	20. Authorized Signature:	21. Certificate Number:
		RJ Barnum	QPBR408K
17. Name (typed or printed):	**18. Date (m/d/yy)**	**22. Name (typed or printed):**	**23. Date (m/d/yy)**
		RJ Barnum	February 6, 2004

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with national regulations by the user/installer before the aircraft may be flow.

UNITED AIRLINES ENGINE VISIT AD VERIFICATION

AOP PAI-45-05-00-13

ENGINE TYPE GTCP331-200 ENGINE SIN 62697 ORDER NO. VS28

AD NUMBER	TITLE	INSTRUCTIONS FOR APPLICABILITY	INSTRUCTIONS FOR VERIFICATION	BFOM VERIF
NO ACTIVE AIRWORTHINESS DIRECTIVES (AD)				NA

This report applies to this engine visit only. For Engine AD status, see United Airlines AD Compliance Record.

Signature [signature] Date 04/14/04

KEY: C/W = complied with this visit
PCW = previously complied with
N/A = not applicable this visit
FCW = factory complied with

CONTR DATE 1/6/08

Job Instruction Card

GTCP331-200 COVER PAGE, ENGINE TEST
REV. 06/06/03

V528	62697	V0103.0
ENGINE NO.	JOB NO.	

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

V0105.1 ISSUED IN ERROR

NOTE - RIGHT SIGN-OFF COLUMN FOR JOB ISSUED.
LEFT SIGN-OFF COLUMN FOR JOB COMPLETED.

1. THE FOLLOWING JOBS ARE SIGNED OFF CORRECTLY OR ACCOUNTED FOR PROPERLY.
2. ALL ITEMS THAT ARE 'X'ED OUT ARE NOT REQD. THIS VISIT.

X460		
X460		V0103.5 DIAGNOSTIC RUN AND SERVICE BEFORE TEST.
X460	1977	V0104.0 SERVICE BEFORE TEST.
X460	1977	V0105.1 ENGINE - TEST / RUN SHEET.
X460	197	*V0105.2 PRESERVATION (ENGINE TEST) PART 1
X460	197	V0106.0 SERVICE AFTER TEST.
X460	197	*V0106.1 PRESERVATION (SAT) PART 2
X460	197	V0106.5 SERVICE AFTER TEST LEAD CHECK.
X460	1977	V0106.6 SERVICE AFTER TEST LEAD RECHECK.
X460	X460	V0106.7 TEST CELL REPAIRS.
		V0110.0 ENGINE SHIPPING.

3. THE FOLLOWING NON-ROUTINE CARDS ARE SIGNED OFF CORRECTLY AND ACCOUNTED FOR. BLANK SPACES INDICATE NO NON-ROUTINES WERE ISSUED.

N/R #	SIGN OFF	N/R #	SIGN OFF	N/R #	SIGN OFF
4616	X460				

(SFOPB)COORDINATOR X460 DATE Apr. 27, 2004

W/C 551 SRB

END JOB V-0103.0 REVISED 06/06/03

PAGE 1

X460 X460 V0105.1 ENGINE-TEST/RUN SHEET

UNITED

Job Instruction Card

GTCP 331 APU RELEASE FORM
REV. 08/01/03

V528 | 62697 | V1522.0
ORDER NO. | ENGINE NO. | JOB NO.

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

1. 1977 I *REVIEW "ENGWRK" DISPLAY IN UNIMATIC TO ENSURE ALL *ASSIGNED "ELR'S" ARE CLEARED AND ARE RECORDED IN *APU AMIS FILE.

2. 1977 I *ACCOMPLISH "ENGVST" TRANSACTION IN UNIMATIC TO RECORD *THE ENGINE VISIT WORK COMPLETION. RECORD IN "ENGWRK" *DISPLAY ANY OTHER OPEN ITEMS TO BE ACCOMPLISHED *DURING APU INSTALLATION.

3. 1977 I ACCOMPLISH COMPUTER ENGINE FINAL RECORD CHECK TRANSACTION "ENGFRC". INITIATE AND COMPLETE INSPECTION PORTION OF SERVICEABLE TAG.

4. 1977 L REPAIR AREA REVIEW DECISIONS HAVE BEEN ACCOMPLISHED. ENGINE IS READY FOR TEST.

5. X460 ALL JOB CARD AND NON-ROUTINE DOCUMENTATION IS CLEARED AND ACCOUNTED FOR. FORWARD LOG PACKAGE TO ENGINE RECORDS.

6. 1977 L VERIFY FORM D-199 IS PRESENT AND COMPLETE SERVICEABLE TAG.

7. 1977 L AFTER TEST RUN INFORMATION: FINAL RUN IS GOOD, YES X NO____ IF 'NO', LIST CAUSE OF REJECT. _____

8. 1977 L MAKE A COPY OF THE COMPLETED ENGINE SERVICEABLE TAG (BOTH FRONT AND BACK SIDES) AND INCLUDE IT WITH THE COMPLETED LOG PACKAGE.

1977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

UNITED

GTCP 331 APU RELEASE FORM
REV. 08/01/03

DETAILS OF ITEMS STARTED BUT NOT SIGNED OFF

V528 (MODEL) 62697 (ENGINE NO) V1522.0 (JOB NO)

9. FOREMAN OR DESIGNEE SIGNATURE VERIFIES THAT ENGINE IS SERVICEABLE, THERE ARE NO RESTRICTIONS AND ALL DEVIATIONS ARE CLOSED.

FOREMAN OR DESIGNEE John Stoker DATE 4-27-04

551 LAH

END JOB V-1522.0 REVISED 08/01/03

1977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

GTCP331-200 DIAGNOSTIC RUN AND SERV. BEFORE TEST
REV. 03/12/02

V528 62697 V0103.5
ORDER NO. ENGINE NO. JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

NOTE - NO PARTS REPLACEMENT ALLOWED WITHOUT SFOEP CONCURRENCE.

NOTE - SET TORQUE WRENCH TO THE TORQUE VALUE SPECIFIED. IF NO TORQUE VALUE IS SPECIFIED, USE STANDARD TORQUE PER GN-8-0-2-14.

CAUTION - SCRAP ANY SELF LOCKING NUT WHICH CAN BE TURNED PAST ITS LOCKING FEATURE BY HAND.

M 6526 1. REMOVE THE FOLLOWING AND CHECK FOR METAL.
A. GEARBOX MAGNETIC CHIP DETECTOR.
B. GENERATOR MAGNETIC CHIP DETECTOR.
C. REINSTALL CHIP DETECTORS.

M 6526 2. REMOVE THE FOLLOWING AND CHECK FOR METAL.
A. TURBINE MAGNETIC CHIP DETECTOR.
B. COMPRESSOR MAGNETIC CHIP DETECTOR.
C. RE-INSTALL CHIP DETECTORS.

M 6526 3. REMOVE MONOPOLE AND CHECK FOR METAL. INSTALL MONOPOLE.

M 6526 4. REMOVE OIL FILTER ELEMENT AND CHECK FOR METAL. INSTALL NEW FILTER ELEMENT.

M 6526 5. REMOVE GENERATOR OIL SCAVENGE FILTER AND CHECK FOR METAL. INSTALL NEW SCAVENGE FILTER.

X I 6. ENGINE TO BE COMPLETELY DISASSEMBLED, AND ALL MODULES TO BE ROUTED FOR DISASSEMBLY. NO FURTHER INSPECTION SIGN-OFFS REQUIRED.

I 7. VISUALLY INSPECT ALL DRIVEN COMPRESSOR IMPELLER BLADES FOR DAMAGE AND/OR IRREGULARITIES, INCLUDING LEADING AND TRAILING EDGE WITH BOROSCOPE. ALSO VISUALLY INSPECT POWER SECTION C1 IMPELLER BLADES FOR DAMAGE AND IRREGULARITIES.

M 6526 8. INSTALL FUEL INLET QUICK DISCONNECT FITTING.

L977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

UNITED

M 6526 9. INSTALL FUEL PRESSURE TEST TEE FITTING & ADAPTER TUBE.
M 6526 10. INSTALL REDUCER AND OIL TEMPERATURE BULB IN GEARBOX.
M 6526 11. INSTALL UNION IN OIL PUMP PRESSURE TEST PORT.
M 6526 12. INSTALL MAIN ELECTRICAL HARNESS ADAPTER.
M 6526 13. INSTALL GENERATOR HARNESS.
M 6526 14. CONNECT STARTER HARNESS LEADS TO STARTER TERMINALS.
HOLD BOTTOM NUT WITH WRENCH, TORQUE POSITIVE TOP NUT 80 LB. IN.
HOLD BOTTOM NUT WITH WRENCH, TORQUE NEGATIVE TOP NUT 50 LB. IN.
M 6526 15. INSTALL TEST CELL EXHAUST PIPE, TORQUE CLAMP.
M 6526 16. INSTALL INLET PLENUM SCREEN.
L977 L 17. LEAD CHECK - GENERAL SECURITY CHECK - PRIOR TO TEST. WRENCH CHECK.

551 JAS

END JOB V-0103.5 REVISED 03/12/02

L977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

GTCP331-200 SERVICE BEFORE TEST
REV. 08/04/03

V528	62697	V0104.0
ENGINE NO		JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

NOTE - SET TORQUE WRENCH TO THE TORQUE VALUE SPECIFIED. IF NO TORQUE VALUE IS SPECIFIED, USE STANDARD TORQUE PER GN-8-0-2-14.

CAUTION - SCRAP ANY SELF LOCKING NUT WHICH CAN BE TURNED PAST ITS LOCKING FEATURE BY HAND.

-----PREPARE FOR TEST-----

M 6956 1. INSTALL REAR ENGINE MOUNTS. TORQUE TO 80-100 IN. LBS. AND SAFETY WIRE (.032 WIRE).

M 6956 2. INSTALL FUEL INLET QUICK DISCONNECT FITTING.

M 6956 3. INSTALL FUEL PRESSURE TEST TEE FITTING & ADAPTER TUBE.

M 6956 4. INSTALL REDUCER AND OIL TEMPERATURE BULB IN GEARBOX.

M 6956 5. INSTALL INLET TEMPERATURE FRAME.

M 6956 6. INSTALL MAIN ELECTRICAL HARNESS ADAPTER.

M 6956 7. INSTALL PS3 TEST TUBE. HANG PCD2 TUBE IN CONVIENT LOCATION TO BE INSTALLED DURING SERVICE AFTER TEST.

M 6956 8. CONNECT STARTER HARNESS LEADS TO STARTER TERMINALS.
HOLD BOTTOM NUT WITH WRENCH, TORQUE POSITIVE TOP NUT 80 LB. IN.
HOLD BOTTOM NUT WITH WRENCH, TORQUE NEGATIVE TOP NUT 50 LB. IN.

M 6956 9. INSTALL TEST CELL EXAHUST PIPE, TORQUE CLAMP.

1977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

ONLY IF ITEMS BEARD BUT NOT SIGNED OFF

M 6956 10. REMOVE ALL SURPLUS PARTS FROM STALL SHELVES AND ROUTE TO PROPER DESTINATION.

M 6956 11. CLEAN ALL STALL SHELVES.

L 12.*VERIFY AND CLEAR ALL "ELR'S" BY REVIEWING "ENGWRK" *DISPLAY IN UNIMATIC APU AMIS FILE.

1977 L 13. LEAD CHECK - GENERAL SECURITY CHECK - PRIOR TO TEST, WRENCH CHECK.

551 JAS

END JOB V-0104.0 REVISED 08/04/03

1977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

GTCP331-200 ENGINE - TEST / RUN SHEET
REV. 11/12/03

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

MODEL NO.	ENGINE NO.	JOB NO.
V528	62697	V0105.1

DATE OF TEST RUN 4-13-04 TEST CELL # 1

M 6949 1. INDICATE TYPE OF RUN. STAMP A, B, C, D OR E BELOW:

A) _____ DIAGNOSTIC RUN
B) 6949 REPAIR RUN POWER SECTION REFURBISHMENT
C) _____ REPAIR RUN NO POWER SECTION REFURBISHMENT
D) _____ IDLE LEAK CHECK
E) _____ OIL CONSUMPTION

M 6949 2. CHECK AND SERVICE OIL QUANTITY PRIOR TO ENGINE TEST. DUPLICATE SIGN-OFF ON JOB V0101.2

M 6949 3. INSTALL AND/OR CONFIRM ENGINE IS SECURED IN A RUN STAND.

M 6949 4. INSTALL VIBRATION EQUIPMENT.

M 6949 5. SECURE ENGINE IN TEST CELL PER ENGINE MANUAL TESTING SECTION 49-20-00.

M 6949 6. CHECK ENGINE AND CELL FOR CLEANLINESS AND SECURITY BEFORE ATTEMPTING ENGINE START. CHECK INLET AND EXHAUST FOR FOREIGN MATERIAL.

NOTE - TEST CELL OPERATOR HAS THE OPTION OF RUNNING THE APU IN MANUAL OR AUTO MODE.

M 6949 7. ACCOMPLISH ALTITUDE SIMULATION BLANKING PLATE PERFORMANCE TEST.

M 6949 8. PERFORM TEST OPERATIONS PER ENGINE MANUAL TESTING

L977
L ALL ITEMS ARE PROPERLY SIGNED OFF.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

#9 Air Starter Ass. 330 DE Turned R.S. End Over 1 Turn Same Result 83 DCF. Add'l Air Hd Accept 30 Cartridge Gen Surge/Anti Test Passed. 6949

SECTION 49-20-00.

DID COOLING FAN VIBRATION EXCEED 1.0 IPS?
____ A. IF YES, REMOVE GENERATOR, INSTALL COVER PLATE AND REPEAT TEST. IF VIBRATION FALLS BELOW .6 IPS, REPLACE THE GENERATOR. IF VIBRATION IS HIGHER THAN .6 IPS, REPLACE THE COOLING FAN AND REPEAT TEST.

6949 B. IF NO, CONTINUE WITH TEST

M 6949 9. IF UNABLE TO PASS THE SURGE SYSTEM TEST AFTER TROUBLESHOOTING STEPS HAVE BEEN TAKEN, PROCEED TO ACCOMPLISH A COMPRESSOR STALL CHECK PER ENGINE MANUAL TESTING SECTION 49-20-00, TO DETERMINE PUEUMATIC STABILITY OF THE LOAD COMPRESSOR. RECORD DCF RECORD DCF ACCOMPLISHED.

DCF 83 6949

L977 LM 6949 10. ----- CONTINUOUS AIRWORTHINESS ITEM -----
CHECK FUEL MANIFOLD HOSE TO ATOMIZER FOR EVIDENCE OF LEAKING.

(6949)OK
( )NOT OK

NO EVIDENCE OF LEAKING ALLOWED.
LIST ALL REPAIRS ON JIC V0106.7.

M 6949 11. SMOKE CHECK - WITH ENGINE OPERATING AT NO-LOAD, CHECK EXHAUST STACK FOR SMOKE. IF EXCESSIVE BLACK SMOKE OR ANY WHITE SMOKE IS OBSERVED, CONTACT SFOEP PERFORMANCE.

M 6949 12. REMOVE FUEL TEST "T" FITTING AND RECONNECT FUEL LINE AND LEAK CHECK IT.

977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruct on Card

GTCP331-200 ENGINE - TEST / RUN SHEET
REV. 11/12/03

V528 | 62697 | V0105.1
ENGINE NO | JOB NO

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

M 6949 13. NON ROUTINE CELL WORK NOT'd IL'Y RIA ENG, NOT'd PLATFORM 6949

M 6949 14. CHECK OIL LEVEL AND SERVICE AS REQUIRED.

M 6949 15. PARTS CHANGED IN TEST CELL.
NOMENCLATURE S/N OFF S/N ON REASON FOR REPLACEMENT

L977 6949 NONE

L977 LM 6949 16. CHECK MAIN OIL SCREEN FOR FOREIGN MATERIAL.
"NO METAL ALLOWED"
SCREEN CONDITION OKAY. YES 6949 NO ____
IF YES, REPLACE FILTER.
IF NO, CONTACT FOREMAN FOR RE-REVIEW OF APU.

NOTE - TAG AND ROUTE ALL PARTS CHANGED TO HOME SHOP.

M 6949 17. REMOVE VIBRATION EQUIPMENT.

L977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

GTCP331-200 ENGINE - TEST / RUN SHEET
REV. 11/12/03

V528	62697	V0105.1
MODEL NO.	ENGINE NO.	JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

= IS NOT RC'D 6949
UAL APU 6949

M 6949 18. IF ENGINE IS TO BE PRESERVED, REQUEST JIC V0105.2 FROM SCHEDULE CENTER.

APU IS TO BE PRESERVED YES ____ NO 6949

6949
X .M 19.*CUSTOMER ENGINES ONLY: VIDEO BORESCOPE SERVICE AFTER TEST INSPECTION REQUIRED. REQUEST FROM SCHEDULE CENTER JIC V0108.0

L977 L 20.*VERIFY JIC V0108.0 IS COMPLETE.

M 6949 21. MAKE TWO COPIES OF TEST SUMMARY SHEET. ATTACH ONE COPY TO TEST J.I.C. AND PROVIDE THE OTHER COPY ALONG WITH TEST LOG PACKAGE TO ENGINEERING.

L977 LM 6949 22. TESTED OK 6949 NOT OK ____

TCR FOR _____ EVA REQUESTED _____

IF TCR, THE FOLLOWING MUST BE SIGNED OFF AND DATED.
SHOP FORMAN _____ DATE _____
ENGINEER _____ DATE _____

551 JAS

END JOB V-0105.1 REVISED 11/12/03

L977
_____L ALL ITEMS ARE PROPERLY SIGNED OFF.

UNITED

Job Instruction Card

GTCP331-200 SERVICE AFTER TEST
REV. 12/30/03

V528 62697 V0106.0
ORDER NO. ENGINE NO. JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

NOTE - SET TORQUE WRENCH TO THE TORQUE VALUE SPECIFIED. IF NO TORQUE VALUE IS SPECIFIED, USE STANDARD TORQUE PER GN-8-0-2-14.

CAUTION - SCRAP ANY SELF LOCKING NUT WHICH CAN BE TURNED PAST ITS LOCKING FEATURE BY HAND.

M 6949 1. REMOVE TESTCELL EXHAUST PIPE AND CLAMP.

M 6949 2. REMOVE TESTCELL STARTER HARNESS. TIGHTEN STARTER TERMINAL NUTS FINGER TIGHT.

M 6949 3. REMOVE GENERATOR HARNESS.

M 6949 4. REMOVE MAIN ELECTRICAL HARNESS ADAPTER.

M 6949 5. REMOVE VIBRATION PICK-UPS.

M 6949 6. REMOVE PS3 TEST TUBE AND REINSTALL PCD2 TUBE.

M 6949 7. INSTALL GENERATOR TERMINAL COVER.

M 6949 8. REMOVE OIL TEMPERATURE BULB AND REDUCER FROM GEARBOX. INSTALL PLUG AND O-RING. TORQUE PLUG.

M 6949 9. REMOVE FUEL INLET QUICK DISCONNECT FITTING. INSTALL UNION AND O-RING. TORQUE UNION AND THEN CAP.

#10 NO. 7500
UAL APU. 6949

L977 LM 6949 10. CUSTOMER ONLY: VIDEO BORESCOPE REQUIRED, REQUEST JIC V0108.0 FROM SCHEDULE CENTER. PREPARE ENGINE FOR BORESCOPE ACCESS.

L977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

UNITED

Job Instruction Card

GTCP331-200 SERVICE AFTER TEST
REV. 12/30/03

V528 62697 V0106.0
ENGINE NO. JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

	I	11. CUSTOMER ONLY: VIDEO BORESCOPE LOAD COMPRESSOR IMPELLER LEADING EDGE AND TRAILING EDGE BLADES. C1 IMPELLER LEADING EDGE AND TRAILING EDGE BLADES. C1 VOLUTE AND LOAD COMPRESSOR VOLUTE. INSPECT PER EID 49-10-01 CRITERIA LIMITS. REQUEST JIC V0108.0 FROM SCHEDULE CENTER.
11 12 NOT AFO'D UAL A.A.L. 6949	M 6949	12. REINSTALL PARTS REMOVED FOR BORESCOPE ACCESS.
	M 6949	13. PROVIDE ENGINE MOUNT NUTS AND WASHERS IN CLOTH BAG ATTACHED TO LEFT REAR ENGINE MOUNT.
	M 6949	14. RE-TORQUE AFT SCAVENGE PUMP ASSEMBLY NUTS TO 90 LB. IN. INSTALL TAIL CONE, SPACER AND SCREWS AND TORQUE TO 50 LB. IN.
	M 6949	15. CHECK GEARBOX VENT LINE AT TURBINE EXHAUST FOR OIL WETNESS. MAXIMUM OIL DRIPPINGS IS 150 DROPS OR 10CC TOTAL.
	M 6949	16. CHECK OIL LEVEL AND SERVICE AS REQUIRED.
	M 6949	17. DRAIN FUEL FROM FILTER BOWL AND REINSTALL FILTER BOWL.
	M 6949	18. VERIFY DRAIN MAST FITTINGS ARE IN UPPER HOLES OF DRAIN MAST PER IPC. (REF. IPC 50/60/65-49-16-00-011). 50-49-16-00-011 60-49-16-00-011 65-49-16-00-011
L977	L	--------CONTINUOUS AIRWORTHINESS ITEMS ---------- CHECK SAFETY.

L977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

V528 62697 V0106.0
SERIES ENGINE NO. JOB NO.

STATUS OF ITEMS STARED BUT NOT SIGNED OFF

L977 L 19. ROTATE ENGINE AND CHECK FOR UNUSUAL NOISES AND FOR FREEDOM OF ROTATION.

CAUTION - ROTATE ENGINE AFTER ENGINE HAS COOLED.

L977 L 20. CHECK SAFETY OF MAIN OIL SCREEN

#21 PREVIOUSLY ACP'D ON GEAR BOX BUILD 6949

M 6949 21. INSTALL EXXON 2389 PLACARD (265-2389) ON FORWARD SIDE OF OIL FILLER HOUSING. REMOVE OTHER OIL PLACARDS.

M 6949 22. INSTALL COVERS, CAPS OR PLUGS ON ALL APU OPENINGS.

M 6949 23. PERFORM SECURITY AND SAFETY CHECK OF ENGINE.
CHECK ALL TUBE AND HOSE NUTS FOR SECURITY.
ASSURE THAT FUEL NOZZLES ARE SECURE AND SAFETIED.
CHECK ELECTRICAL CONNECTORS FOR SECURITY. SAFETY AS REQUIRED.

#24 NOT ACP'D 6949

M 6949 24. IF ENGINE IS TO BE PRESERVED, REQUEST JIC V0106.1 FROM SCHEDULE CENTER.

L977 L 25. LEAD - FINAL CHECK OF ENGINE.
CHECK THAT SERVICEABLE TAG IS PRESENT IN PLASTIC ENVELOPE.
CHECK THAT V0108.0 IS COMPLETE.

551 JAS

END JOB V-0106.0 REVISED 12/30/03

L977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

331 SERVICE AFTER TEST LEAD CHECK

REV. 06/05/03

V528	62697	V0106.5
SHIPPING NO.	ENGINE NO.	JOB NO.

STATUS OF ITEMS STARTED BUT NOT SIGNED OFF

NOTE - RECORD ALL DISCREPANCIES ON SERVICE AFTER
* TEST LEAD RECHECK JOB CARD V0106.6

L977 L	1. VERIFY ALL REPAIRS TO BE ACCOMPLISHED DURING OR AFTER TEST HAVE BEEN PROPERLY COMPLETED.
L977 L	2. CHECK FOR FREEDOM OF ROTATION AFTER ENGINE HAS COOLED. CHECK FOR UNUSUAL NOISES.
L977 L	3. CHECK INLET AND EXHAUST FOR DEBRIS, F.O.D. OR OBVIOUS DAMAGE.
L977 L	4. CHECK GENERATOR, STARTER AND MAIN ELECTRICAL CONNECTORS FOR BENT, BURNED OR PUSHED BACK PINS OR SOCKETS.
L977 L	5. CHECK THAT ALL CAPS AND PLUGS ARE INSTALLED, TIGHT AND, IF NECESSARY, SAFTIED.
L977 L	6. CHECK THAT PROPER MANUFACTURER ENGINE IDENTIFICATION DATA PLATE IS INSTALLED ON LOWER INLET PLENUM AND INSPECTION PLATE INSTALLED AND SECURE.
L977 L	7. CHECK THAT UA S/N I.D. PLATE IS INSTALLED BELOW GEARBOX. CHECK ALL MOUNTED ACCESSORIES FOR PROPER INSTALLATION.
L977 L	8. CHECK THAT ENGINE MOUNT AND SHIPPING MOUNT BOLTS ARE INSTALLED AND TIGHTENED AFTER APU IS INSTALLED IN SHIPPING STAND.
L977 L	9. CHECK THAT NEW ENGINE MOUNT NUTS AND WASHERS ARE PROVIDED IN CLOTH BAG ATTACHED TO LEFT AFT MOUNT.
L977 L	10. CHECK THAT ALL PROTECTIVE COVERS ARE INSTALLED ON INLET AND EXHAUST.

SRB

END JOB V-0106.5 REVISED 06/05/03

UNITED

Job Instruction Card

331 TEST CELL REPAIRS

REV. 04/10/00

V528 (ENGINE NO.) 62697 (JOB NO.) V0106.7

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

NOTE - USE THIS JIC TO RECORD ANY WORK ACCOMPLISHED IN THE TEST CELL OTHER THAN THE TEST ITSELF.

NOTE - LEAD, SIGN-OFF IN LEFT HAND COLUMN. MECHANIC, SIGN-OFF IN RIGHT HAND COLUMN.

NOTE - IF NO DISCREPANCIES FOUND, WRITE NONE.

			DISCREPANCY OR ACTION
X	LM	X 6949	REINSTALL ICU ROD COVER AFTER TEST RUN
L977	LM	6949 6949	INSTALLED COVER
X	LM	X	SAFETY FLOW SENSE PLATFORM LOCK BOLT 6949
L977	LM	6949	SAFETY LOCK BOLT
X	LM	X 6949	REINSTALL INLET SCREENS AND BUSHING 6949
L977	LM	6949	INSTALLED SCREENS
	LM		
	LM		
	LM		

6949 6949 L977 551 LAH

END JOB V-0106.7 REVISED 04/10/00

PAGE 1

L977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

GTCP331 APU ENGINE SHIPPING
REV. 11/22/85

V528 | 62697 | V0110.0
ENGINE NO. | JOB NO.

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

M 6949 1. ATTACH LIFTING SLING TO ENGINE AND REMOVE ENGINE FROM RUN OR BUILD STAND.

L977 L 2. CHECK ENGINE MOUNTS FOR SECURITY OF INSTALLATION ON ENGINE.

M 6949 3. POSITION ENGINE IN SHIPPING STAND AND SECURE WITH SAFETY PINS ON ENGINE MOUNTS.

L977 L 4. CHECK ENGINE FOR SECURITY AND PROPER INSTALLATION IN SHIPPING STAND.

*551 LAH

END JOB V-0110.0 REVISED 11/22/85

L977 L ALL ITEMS ARE PROPERLY SIGNED OFF.

Job Instruction Card

GTCP331-200 OEM COMPONENT MAINTENANCE MANUAL DATE
REV. 02/24/04

V528 62697 V0001.0
PROFILE NO. ENGINE NO. JOB NO.

STATUS OF ITEMS STARTD BUT NOT SIGNED OFF

DISASSEMBLY AND BUILD PROCEDURES OF THE ENGINE ARE ACCOMPLISHED USING THE OEM MANUAL AS A BASELINE. MINOR ADJUSTMENTS MAY HAVE BEEN MADE TO THE DISASSEMBLY AND BUILD PROCEDURES UTILIZING INDUSTRY ACCEPTED PRACTICES. THE FINAL PRODUCT MEETS THE OEM INTENT THROUGH FORM, FIT, AND FUNCTION.

REFERENCE HONEYWELL COMPONENT MAINTENANCE MANUAL GTCP 331-200, REV 15, DATED SEPTEMBER 29, 2000.

551 JAS

END JOB V-0001.0 REVISED 02/24/04

1977
L ALL ITEMS ARE PROPERLY SIGNED OFF.

ENGINE MAINTENANCE RECORDS

LOG CERTIFICATION FORM D-199

REF: PAOP 45-55-30-04

CONTROLLED DOCUMENT - DO NOT DUPLICATE

ALL PORTIONS OF BUILD LOGS ARE COMPLETE AND ACCURATE FOR ENGINE/STAND-ALONE MODULES:

Serial Number 62697

Repair Order Number V528

Power Rating 331-200E

IN ADDITION, THE A.D. VERIFICATION CHECKLIST (AS SUPPLIED BY SFOEP) IS ON FILE IN SFOMR/PA AS PART OF THE ENGINE LOG.

THE FOLLOWING ITEMS MUST BE CLEARED BEFORE THE ENGINE/STAND-ALONE MODULE IS RELEASED: (IF NONE, SO STATE)

NONE

SFOMR/PA: _____ **Date** 04/14/2004

IRMA BOZZI

FOR SFOMR / PA USE ONLY

WHEN ENGINE MAINTENANCE RETURNS THIS D-199 TO SFOMR/PA AS A RESULT OF A TEST CELL INTERRUPT (TCI) OR A TEST CELL REJECT (TCR), FILL OUT THE FOLLOWING INFORMATION:

REASON: **TCI or TCR?** _____

SFOMR/PA: _____ **Date** _____

(SIGNATURE HERE RENDERS THIS D-199 NULL AND VOID)

SFR4568

REVISED 01/09/2004
(ALL PRIOR DATES OBSOLETE)

ORIGINAL

V528

* DEFINITIONS

REMOVAL CODES

REPAIR SHOP DATA -

* SHIP & STORE IN CONTAINER
HCS CONTROLLED PART

* DANGEROUS GOODS

UNITED I & R TAG

SHIP, STORE IN CNTNR

I & R TAG
UAL 2349/UAL 2349
REV 12/86

OFF DIST | P/N | PART NO | NAME | CASH NO OFF | SER NO IF NO DASH

ON UNIT 265 9101 MR49112 APU | DASH NO ON | MFG SERIAL 6207 | UTILS

SHOP ROUTING	MAINT SHOP	FS	551	F74	551						551	EWR	N
											FLAME SHOT	COMPLYING	RE-INSTALLED
	X	L977			L977						DATE ZERO TIMED		QUANTITY

THE TERM "SERVICEABLE" WHEN USED HEREIN MEANS A PART WHICH HAS BEEN INSPECTED AND PERFORMED & COMPLETED IN ACCORDANCE WITH EACH SPECIFIC & CONFORMS TO CURRENT FAR'S WHEN SIGNED IN THE [illegible] WITH RESPECT TO THE WORK PERFORMED PERTINENT INSPECTION FILE AT UAL AIR CARRIER CALIFORNIA & [illegible] AT UAL AIRPORT SERVICE INTERNATIONAL AIRPORT, CA 94128

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED		COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
		TAIL NO OR A/C DASH NO		TACH TIME		DATE	

REMOVAL & INSTALLATION DATA

REASON FOR REMOVAL OR REPORTED TROUBLE

1 ☐ TIME
2 ☐ TROUBLE
3 ☐ OTHER

-767 FR*/FIM--------

SIGNATURE (OR STAMP) & FILE NO

REPORTABLE UNIT-MRDATA TRANSACTION REQUIRED

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

PROCEDURES MM 7041 ACP 331

P/N 265 9101
SER 93
265 | EWR
DATE | STATION

8444
John Stokes

REMARKS
INSPECTED
A/C DATA
STATION
SIGNATURE

UNITED

FSEM443A
03/17/04

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
LIMIT PLANNING REPORTS FOR UNIT

REASON: AT REMOVAL
SERIAL NUMBER 62697 ENGINE TYPE V
ORDER NUMBER V528 MODULE TYPE

REQUESTOR: REMOVAL
ENGINE NAME APU331
MODULE NAME

PHONE:
CUST CODE UA
WORK CENTER 551

ORG:

WORK CENTER: 551 TSN: 07556 CSN: 08029 TSLM: 07556 CSLM: 08029 TSLV: 07556 CSLV: 08029

SERIAL NBR	ET	MT	NAME	POWER	CUST	LIMIT TYPE	LIMIT VALUE	UNIT ACCUMULATION	REMAINING VALUE	LIMIT IN NLA UNIT	HARD LIMIT NLA LOWEST REMAINING
62697		V	APU331	200E	UA					A X B	
											C 11971

ORDER NUMBER	REASON REMOVED OR MAINTENANCED	DATE MAINT
V528	LOW PNEUMATIC PRESS	03/17/04

MODULE LIMIT SUMMARY - HARD AND THRESHOLD

NAME	MT	SERIAL NBR	COMMENTS	LIMIT TYPE	LIMIT VALUE	MODULE ACCUMULATION	REMAINING VALUE	LIMIT IN NLA UNIT	HARD LIMIT NLA LOWEST REMAINING
DRIVEN COMP SE	F	P-2167		X	007000	07556 TSMDPI	******		
				X	007000	08029 CSMDPI	******		
POWER SECTION	N	P-2155		X	005000	07556 TSMDPI	******	A X B	
				X	005000	08029 CSMDPI	******		C 11971
GEARBOX ASSMBLY	A	P-1615		X	008000	07556 TSMDPI	00444		

REASON: AT REMOVAL
SERIAL NUMBER 62697
ORDER NUMBER V528

ENGINE TYPE V
MODULE TYPE

REQUESTOR: REMOVAL
ENGINE NAME APU331
MODULE NAME

PHONE:
CUST CODE UA
WORK CENTER 551

ORG:

SERIAL NBR	ET	MT	NAME	POWER	CUST
62697		V	APU331	200E	UA

ORDER NUMBER V528

REASON REMOVED OR MAINTENANCED
LOW PNEUMATIC PRESS

DATE MAINT
03/17/04

FUNCTION LIMITS BY NHA - HARD AND THRESHOLD

NHA NAME MT SERIAL NBR

DRIVEN COMP SE F P-2167

FUNC POS NAME	SERIAL NBR PART NUMBER	COMMENTS	LIMIT TYPE	LIMIT VALUE	FUNCTION ACCUMULATION		REMAINING VALUE
00989 001 IMPELLER-DRCOMP	99-10-4566 3822080-3		X	010000	07556	TSDPI	02444

NHA NAME MT SERIAL NBR

POWER SECTION N P-2155

FUNC POS NAME	SERIAL NBR PART NUMBER	COMMENTS	LIMIT TYPE	LIMIT VALUE	FUNCTION ACCUMULATION		REMAINING VALUE
01009 001 T3 WHEEL ASSY	99-50-5751 3840022-3		H	025000	08029	CSN	16971
			B	012000	08029	CSN	03971
01007 001 DISK T2 TURBINE	99-10-2569 3840007-1		H	020000	08029	CSN	11971
			X	005000	07556	TSDPI	******
			X	005000	08029	CSDPI	******
01004 001 DISK T1 TURBINE	99-70-0757 3840019-1		H	020000	08029	CSN	11971
			X	005000	07556	TSDPI	******
			X	005000	08029	CSDPI	******
01014 001 NOZZLE SET FRIM	UA003I5688 33INOZFRI1		A	006000	07556	TSDPI	******
			B	003000	07556	TSDPI	******

REASON: AT REMOVAL
SERIAL NUMBER 82697
ORDER NUMBER V528

ENGINE TYPE V
MODULE TYPE

REQUESTOR: REMOVAL
ENGINE NAME APU331
MODULE NAME

PHONE:

ORG:
CUST CODE UA
WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST
82697	V		APU331	200E	UA

ORDER NUMBER	REASON REMOVED OR MAINTENANCED	DATE MAINT
V528	LOW PNEUMATIC PRESS	03/17/04

FUNCTION LIMITS BY NHA - HARD AND THRESHOLD

NHA NAME MT SERIAL NBR

POWER SECTION N P-2155

FUNC POS NAME	SERIAL NBR PART NUMBER	COMMENTS	LIMIT TYPE	LIMIT VALUE	FUNCTION ACCUMULATION	REMAINING VALUE
01015 001	UA00315689		A	006000	07556 TSDPI	******
NOZZLE SET SECD	331NDZSEC1		B	003000	07556 TSDPI	******

UNITED

PSEN443A
03/17/04

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
THRESHOLD LIMIT REPORTS FOR UNIT

REASON: AT REMOVAL
SERIAL NUMBER 62897
ORDER NUMBER V528

ENGINE TYPE V
MODULE TYPE

REQUESTOR: REMOVAL
ENGINE NAME APU331
MODULE NAME

PHONE:

ORG:

CUST CODE UA
WORK CENTER 551

WORK CENTER: 551 TSN: 07556 CSN: 08029 TSLM: 07556 CSLM: 08029 TSLV: 07556 CSLV: 08029

SERIAL NBR	ET	MT	NAME	POWER	CUST	LIMIT TYPE	UNIT ACCUMULATION	NLA LIMITS THIS EMD
62697	V		APU331	200E	UA			A X B

ORDER NUMBER V528

REASON REMOVED OR MAINTENANCED
LOW PNEUMATIC PRESS

DATE MAINT
03/17/04

MODULE THRESHOLD LIMIT SUMMARY

NAME	MT	SERIAL NBR	COMMENTS	LIMIT TYPE	MODULE ACCUMULATION	NLA LIMITS THIS EMD
DRIVEN COMP SE	F	P-2167		X	07556 TSMDPI	
				X	08029 CSMDPI	
POWER SECTION	N	P-2155		X	07556 TSMDPI	A X B
				X	08029 CSMDPI	

REASON: AT REMOVAL
SERIAL NUMBER 62697
ORDER NUMBER V528

ENGINE TYPE V
MODULE TYPE

REQUESTOR: REMOVAL
ENGINE NAME APU331
MODULE NAME

PHONE:

ORG:

CUST CODE UA
WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST
62697	V		APU331	200E	UA

ORDER NUMBER	REASON REMOVED OR MAINTENANCED	DATE MAINT
V528	LOW PNEUMATIC PRESS	03/17/04

FUNCTION THRESHOLD LIMITS BY NHA

NHA NAME MT SERIAL NBR

POWER SECTION N P-2155

FUNC FOS NAME	SERIAL NBR PART NUMBER	COMMENTS	LIMIT TYPE	LIMIT VALUE	FUNCTION ACCUMULATION
01007 001	99-10-2589		X	005000	07556 TSDPI
DISK T2 TURBINE	3840007-1		X	005000	08029 CSDPI
01004 001	99-70-0757		X	005000	07556 TSDPI
DISK T1 TURBINE	3840019-1		X	005000	08029 CSDPI
01014 001	UA00315688		A	006000	07556 TSDPI
NOZZLE SET PRIM	331NOZPRI1		B	003000	07556 TSDPI
01015 001	UA00315689		A	006000	07556 TSDPI
NOZZLE SET SECD	331NOZSEC1		B	003000	07556 TSDPI

UNITED

PSEN443A
03/17/04

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
DISC SHEET AND HARD LIMIT REPORT

REASON: AT REMOVAL
SERIAL NUMBER 62697
ORDER NUMBER V528

ENGINE TYPE V
MODULE TYPE

REQUESTOR: REMOVAL
ENGINE NAME APU331
MODULE NAME

PHONE:

ORG:

CUST CODE UA
WORK CENTER 551

WORK CENTER: 551 TSN: 07556 CSN: 08029 TSLM: 07556 CSLM: 08029 TSLV: 07556 CSLV: 08029

SERIAL NBR	ET	MT	NAME	POWER	CUST	LIMIT VALUE	HARD LIMIT UNIT ACCUMULATION	REMAINING VALUE	NLA LOWEST REMAINING VALUE
62697		V	APU331	200E	UA				C 11971

ORDER NUMBER	REASON REMOVED OR MAINTENANCED	DATE MAINT
V528	LOW PNEUMATIC PRESS	03/17/04

MODULE HARD LIMIT SUMMARY

NAME	MT	SERIAL NBR	COMMENTS	LIMIT VALUE	HARD LIMIT MODULE ACCUMULATION	REMAINING VALUE	NLA LOWEST REMAINING VALUE
POWER SECTION	N	P-2155					C 11971

UNITED

PSEN443A
03/17/04

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
ENGINE BUILD GOAL REPORT

REASON: AT REMOVAL
SERIAL NUMBER 62697
ORDER NUMBER V528
EFFECTIVE MODEL: V-UA-ESV

ENGINE TYPE V
MODULE TYPE

REQUESTOR: REMOVAL
ENGINE NAME APU331
MODULE NAME

PHONE:

ORG:
CUST CODE UA
WORK CENTER 551

ALL LIFE LIMITED PARTS MEET BUILD LIMITS

ALL LIFE LIMITED PARTS MEET TEARDOWN GOALS

*** END OF REPORT FOR ENG - V MT - SN - 62697

*** END OF REPORT ***

UNITED

PSEN441A-1
03/17/04

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
COMPOSITION LIST FOR UNIT

REASON: REMOVAL
SERIAL NUMBER 62697
ORDER NUMBER V528

ENGINE TYPE V
MODULE TYPE

REQUESTOR: PSEN440A
ENGINE NAME APU331
MODULE NAME

PHONE:
CUST CODE UA
WORK CENTER 551

ORG:

WORK CENTER: 551

TSLV: 07556 CSLV: 08029 TSLM: 07556 CSLM: 08029

SERIAL NBR	ET MT	NAME	POWER	CUST	
62697	V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V528	N674UA	APU	LAX	LOW PNEUMATIC PRESS	03/17/04

UNIT ACCUMULATIONS

	LIMITS THIS EMO	WTY
07556 TSN 08029 CSN		

UNIT'S COMPOSITION

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	WTY
DRIVEN COMP SE	F	P-2167	07556 TSN 07556 TSMDPI	08029 CSN 08029 CSMDPI	07556 TSMI	08029 CSMI	X	
POWER SECTION	N	P-2155	07556 TSN 07556 TSMDPI	08029 CSN 08029 CSMDPI	07556 TSMI	08029 CSMI	X	
GEARBOX ASSMBLY	A	P-1615	07556 TSN 07556 TSMDPI	08029 CSN 08029 CSMDPI	07556 TSMI	08029 CSMI		

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	WTY	UNATH PRT
05650 001 FAN -SHROUDED R	P-846 3516959-6	07556 TSN 08029 CSDPI	08029 CSN	07556 TSDPI			

REASON: REMOVAL
SERIAL NUMBER 62697
ORDER NUMBER V528

ENGINE TYPE V
MODULE TYPE

REQUESTOR: PSEN440A
ENGINE NAME APU331
MODULE NAME

PHONE:

CUST CODE UA
WORK CENTER 551

ORG:

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V528	N674UA	APU	LAX	LOW PNEUMATIC PRESS	03/17/04

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMD	WTY
DRIVEN COMP SE	P	P-2167	07556 TSN 07556 TSMDPI	08029 CSN 08029 CSMDPI	07556 TSMI	08029 CSMI	X	

FUNC POS NAME	SERIAL NBR PART NUMBER	*FUNCTION ACCUMULATIONS*			LIMITS THIS EMD	WTY	UNATH PRT
00988 001 IGV ASSY VARIBL	UA00315683 3810231-21	07556 TSN 08029 CSDPI	08029 CSN 07556 TSS-9089	07556 TSDPI			
00389 001 IMPELLER-DRCOMP	99-10-4566 3822080-3	07556 TSN 08029 CSDPI	08029 CSN	07556 TSDPI		YES	
05760 001 BRNG-D/C THRUST	99-10-9276 3813827-1	07556 TSN 08029 CSDPI	08029 CSN	07556 TSDPI			
05746 001 BRNG-D/C ROLLER	99-43-4672 3822039-1	07556 TSN 08029 CSDPI	08029 CSN	07556 TSDPI			

REASON: REMOVAL
SERIAL NUMBER 62697
ORDER NUMBER V528

ENGINE TYPE V
MODULE TYPE

REQUESTOR: PSEN440A
ENGINE NAME APU331
MODULE NAME

PHONE:

ORG:

CUST CODE UA
WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V528	N674UA	APU	LAX	LOW PNEUMATIC PRESS	03/17/04

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	WTY
POWER SECTION	N	P-2155	07556 TSN	08029 CSN	07556 TSMI	08029 CSMI	X	
			07556 TSMOPI	08029 CSMOPI				

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	WTY	UNATH PRT
05719 001	UA00315684	07556 TSN	08029 CSN	07556 TSOPI			
BRNG,P/S-THRUST	3613827-1	08029 CSOPI					
05720 001	UA00315685	07556 TSN	08029 CSN	07556 TSOPI			
BRNG,P/S-ROLLR	3822099-1	08029 CSOPI					
00993 001	99-10-3545	07556 TSN	08029 CSN	07556 TSOPI		YES	
C1 COMP IMPELLR	3822067-2	08029 CSOPI					
00995 001	99-90-2048	07556 TSN	08029 CSN	07556 TSOPI			
C2 COMP IMPELLR	3822068-1	08029 CSOPI					
01002 001	UA00315686	07556 TSN	08029 CSN	07556 TSOPI			
COMB CHMBANNULR	3830051-5	08029 CSOPI					
01005 001	UA00315687	07556 TSN	08029 CSN	07556 TSOPI			
T1 STATOR VANE	3614744-3	08029 CSOPI					
01009 001	99-50-5751	07556 TSN	08029 CSN	07556 TSOPI			
T3 WHEEL ASSY	3840022-3	08029 CSOPI					
01007 001	99-10-2569	07556 TSN	08029 CSN	07556 TSOPI	X	YES	
DISK T2 TURBINE	3840007-1	08029 CSOPI					
01004 001	99-70-0757	07556 TSN	08029 CSN	07556 TSOPI	X	YES	
DISK T1 TURBINE	3840019-1	08029 CSOPI					
01014 001	UA00315688	07556 TSN	08029 CSN	07556 TSOPI	A B		
NOZZLE SET PRIM	331NOZPRI1	08029 CSOPI					

REASON: REMOVAL
SERIAL NUMBER 62697
ORDER NUMBER V528

ENGINE TYPE V
MODULE TYPE

REQUESTOR: PSEN440A
ENGINE NAME APU331
MODULE NAME

PHONE:

ORG:
CUST CODE UA
WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V528	N674UA	APU	LAX	LOW PNEUMATIC PRESS	03/17/04

FUNC NAME	POS	SERIAL NBR / PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	WTY	UNATH PRT
01015 NOZZLE SET SECD	001	UA00315689 331N025EC1	07556 TSN 08029 CSOPI	08029 CSN	07556 TSOPI	A B		

UNITED

PSEN441A-1 UNITED AIRLINES ENGINE MAINTENANCE SYSTEM PAGE: 5
03/17/04 COMPOSITION LIST FOR LOWER ASSEMBLY TIME: 08:03

REASON: REMOVAL REQUESTOR: PSEN44OA PHONE: DRG:
SERIAL NUMBER 62697 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V528 MODULE TYPE MODULE NAME WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V528	N674UA	APU	LAX	LOW PNEUMATIC PRESS	03/17/04

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	WTY
GEARBOX ASSMBLY	A	P-1615	07556 TSN	08029 CSN	07556 TSMI	08029 CSMI		
			07556 TSMOPI	08029 CSMOPI				

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS FMO	WTY	UNATH PRT
00987 001	MS99P21842	07556 TSN	08029 CSN	07556 TSOPI		YES	
GEARBOX HOUSING	3862699-3	08029 CSOPI					

* * * END OF REPORT FOR ENG - V MT - SN - 62697 * * *

UNITED

FSEN442A-1
04/18/04

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
COMPOSITION LIST FOR UNIT

REASON: INSTALLATION
SERIAL NUMBER 62697
ORDER NUMBER V528

ENGINE TYPE V
MODULE TYPE

REQUESTOR: MOCOMP
ENGINE NAME APU331
MODULE NAME

PHONE:

ORG:

CUST CODE UA
WORK CENTER 551

WORK CENTER: 551

TSLV: 07556 CSLV: 08029 TSLM: 07556 CSLM: 08029

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V528	N674UA	APU	LAX	LOW PNEUMATIC PRESS	03/17/04

UNIT ACCUMULATIONS

LIMITS THIS EMO WTY

07556 TSN 08029 CSN

UNIT'S COMPOSITION

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	WTY
DRIVEN COMP SE	F	P1372	18368 TSN 00000 TSMOPI	18476 CSN 00000 CSMOPI	00000 TSMI	00000 CSMI		
POWER SECTION	N	P1375	18728 TSN 00000 TSMOPI	19832 CSN 00000 CSMOPI	00000 TSMI	00000 CSMI		
GEARBOX ASSMBLY	A	P898	17845 TSN 00000 TSMOPI	18833 CSN 00000 CSMOPI	00000 TSMI	00000 CSMI		

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS				LIMITS THIS EMO	WTY	UNATH PRT
05650 001 FAN -SHROUDED R	090396 3616050-6	UNK TSN 00000 OSOPI	UNK CSN	00000 TSOPI				

REASON: INSTALLATION
SERIAL NUMBER 62697
ORDER NUMBER V528

ENGINE TYPE V
MODULE TYPE

REQUESTOR: MOCOMP
ENGINE NAME APU331
MODULE NAME

PHONE:

ORG:
CUST CODE UA
WORK CENTER 551

SERIAL NBR	ET MT	NAME	POWER	CUST
62697	V	APU331	200E	UA UNITED AIRLINES

ORDER NUMBER	PLANE NBR	FOS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V528	N674UA	APU	LAX	LOW PNEUMATIC PRESS	03/17/04

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	WT%
DRIVEN COMP SE	F	P1372	18388 TSN 00000 TSMOPI	18476 CSN 00000 CSMOPI	00000 TSMI	00000 CSMI		

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS				LIMITS THIS EMO	WT%	UNATH FRI
00988 001 IGV ASSY VARIBL	UA00171830 3810231-21	UNK TSN 00000 CSOPI	UNK CSN 14741 TSS-9089	00000 TSOPI				
00989 001 IMPELLER-DRCOMP	1-501-1732 3822080-3	17892 TSN 00000 CSOPI	17949 CSN	00000 TSOPI				
05760 001 BRNG-D/C THRUST	UA1998-441 3613827-1	UNK TSN 00000 CSOPI	UNK CSN	00000 TSOPI				
05746 001 BRNG-D/C ROLLER	GR3100-677 3822099-1	UNK TSN 00000 CSOPI	UNK CSN	00000 TSOPI				

REASON: INSTALLATION
SERIAL NUMBER 62697
ORDER NUMBER V528

ENGINE TYPE V
MODULE TYPE

REQUESTOR: MOCOMP
ENGINE NAME APU331
MODULE NAME

PHONE:

ORG:
CUST CODE UA
WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
62697		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V528	N674UA	APU	LAX	LOW PNEUMATIC PRESS	03/17/04

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	WTY
POWER SECTION	N	P1375	18728 TSN 00000 TSMDPI	19832 CSN 00000 CSMDPI	00000 TSMI	00000 CSMI		

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS					LIMITS THIS EMO	WTY	UNATH PRI
05719 001 BRNG,P/S-THRUST	S1998-184 3613827-1	UNK TSN 00000 CSDPI	UNK CSN	00000 TSDPI					
05720 001 BRNG,P/S-ROLLR	039100-530 3822099-1	UNK TSN 00000 CSDPI	UNK CSN	00000 TSDPI					
00993 001 C1 COMP IMPELLR	8-501-3345 3822067-2	19026 TSN 00000 CSDPI	25132 CSN	00000 TSDPI					
00995 001 C2 COMP IMPELLR	0-501-3267 3822068-1	UNK TSN 00000 CSDPI	UNK CSN	00000 TSDPI					
01002 001 COMB CHMBANNULR	101041 3830051-5	UNK TSN 00000 CSDPI	UNK CSN	00000 TSDPI					
01005 001 T1 STATOR VANE	MGT-50088 E3844038-4	00000 TSN 00000 CSDPI	00000 CSN	00000 TSDPI				YES	
01009 001 T3 WHEEL ASSY	1-345-7043 3840022-3	17483 TSN 00000 CSDPI	17342 CSN	00000 TSDPI					
01007 001 DISK T2 TURBINE	005D102416 3840007-1	04477 TSN 00000 CSDPI	05700 CSN	00000 TSDPI				YES	
01004 001 DISK T1 TURBINE	0235703173 3840019-1	00000 TSN 00000 CSDPI	00000 CSN	00000 TSDPI				YES	
01014 001 NOZZLE SET PRIM	UA00381053 331NOZPRI1	UNK TSN 00000 CSDPI	UNK CSN	00000 TSDPI					

UNITED

REASON: INSTALLATION REQUESTOR: MOCOMP PHONE: ORG:
SERIAL NUMBER 62897 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V528 MODULE TYPE MODULE NAME WORK CENTER 551

SERIAL NBR	ET MT	NAME	POWER	CUST	
62897	V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V528	N674UA	APU	LAX	LOW PNEUMATIC PRESS	03/17/04

FUNC NAME	POS	SERIAL NBR / PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMD	WTV	UNATH PRT
01015 001		UA00381056	00000 TSN	00000 CSN	00000 TSOPI		YES	
NOZZLE SET SECD		331N025EC1	00000 CSOPI					

UNITED

PSEN442A-1
04/18/04

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
COMPOSITION LIST FOR LOWER ASSEMBLY

REASON: INSTALLATION
SERIAL NUMBER 62697
ORDER NUMBER V528

ENGINE TYPE V
MODULE TYPE

REQUESTOR: MOCOMP
ENGINE NAME APU331
MODULE NAME

PHONE:
CUST CODE UA
WORK CENTER 551

ORG:

SERIAL NBR	ET MT	NAME	POWER	CUST	
62697	V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	PDS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V528	N674UA	APU	LAX	LOW PNEUMATIC PRESS	03/17/04

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS ENG	WTY
GEARBOX ASSMBLY	A	P698	17845 TSN 00000 TSMOPI	18633 CSN 00000 CSMOPI	00000 TSMI	00000 CSMI		

FUNC PDS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS ENG	WTY	UNATH PRT
00987 001 GEARBOX HOUSING	1L-2034 3862699-3	20210 TSN 00000 CSOPI	18143 CSN	00000 TSOPI			

* * * END OF REPORT FOR ENG - V MT - SN - 62697 * * *

SFOMR1 SFUSPM SFUPD6 SFULMEMC SFUSFT57 SFOSP
SFO1Q
.HDUCTION 131905/STE:

SPARE ENGINE CHECK ACCOMPLISHMENT RECORDED
****
ENG SN: 62607 331-200E ETT: 7556:42 ETC: 6063
A CK CHECK HAS BEEN ACCOMPLISHED AND SERVICEABLE TAG INSTALLED AT SFO ON
13APR2004 AT 1206 BY: 084444 STOKES JOHN
LOC ON FIELD:
REMARKS: ENG RECEIVED A SHOP VISIT C CHECK ACCOMPLISHED

.
;04131906 101809 0022

END OF PACKAGE CARD

LLPs

9100 S. Dadeland Blvd., Suite 1500, Miami, FL 33156 +1-305-271-6650
info@longreach.com www.longreach.com

LLP - T1 Turbine Disk
P/N 3840019-1
S/N 0135703907

9100 S. Dadeland Blvd., Suite 1500, Miami, FL 33156 +1-305-271-6650
info@longreach.com www.longreach.com

الخطوط الملكية المغربية
royal air maroc

LIFE LIMITED PARTS STATUS

TT:	19915,00
TC:	26224,00
TT at last SV:	UNK
TC at last SV:	UNK
TSLSV :	UNK
CSLSV :	UNK

Customer : RAM
APU P/N: 3800298-1
APU Serial No.: P-2697

As of :

NOMENCLATURE	PART NUMBER	PSN		PCSN	LMIT VALUE	REMAINING VALUE
T3 WEEL ASSY	3840022-4	734502190		14410,00	25000	10590
DISK T2 TURBINE	3840007-1	350101589		17957,00	20000	2043
DISK T1 TURBINE	3840019-1	135703907		15444,00	20000	4556

UNITED AIRLINES
BACK TO BIRTH HISTORY

PART NAME: DISK T1 TURBINE
PART NUMBER: 3840019-1
SERIAL NUMBER: 0135703907

CURRENT TIME REMAINING: N/A
CURRENT CYCLES REMAINING: 4784 FROM CSN
CURRENT DAYS REMAINING: N/A

	<-----INSTALL----->						<-----REMOVAL----->							
CUST ID	ENGINE SERIAL#	INSTALL DATE	EON	ENGINE TSN	ENGINE CSN	PART TSN	PART CSN	REMOVAL DATE	EON	ENGINE TSN	ENGINE CSN	PART TSN	PART CSN	USAGE HOURS	USAGE CYCLES
UA	62697	09/12/2013	V539	18025	23603	12035	12823	CURRENT		19723	25996	13733	15216	1698	2393
UA	61646	01/30/2006	V671	21316	26271	4050	4288	05/27/2013	V532	29301	34806	12035	12823	7985	8535
UA	61929	05/20/2002	V691	13734	16448	0	0	12/07/2005	V670	17784	20736	4050	4288	4050	4288

TO THE BEST OF MY KNOWLEDGE THE INFORMATION CONTAINED HEREIN WAS OBTAINED FROM DATA MAINTAINED IN ACCORDANCE WITH UAL FAA APPROVED OPERATIONS SPECIFICATIONS.

Linda Gross

Linda Gross - Analyst SFOMR - Maintenance Records 7/15/2015

UNITED AIRLINES
BACK TO BIRTH HISTORY – PRORATE ACCUMULATIONS

IIN:	0305
FUNCTION NUMBER:	01004
PART NAME:	DISK T1 TURBINE
PART NUMBER:	3840019-1
SERIAL NUMBER:	0135703907
TOTAL HOURS:	13733
TOTAL CYCLES:	15216

POWER RATING	TOTAL HOURS AT POWER RATING	TOTAL CYCLES AT POWER RATING
200E	13733	15216

TO THE BEST OF MY KNOWLEDGE THE INFORMATION CONTAINED HEREIN WAS OBTAINED FROM DATA MAINTAINED IN ACCORDANCE WITH UAL FAA APPROVED OPERATIONS SPECIFICATIONS.

Linda Gross

Linda Gross Analyst SFOMR - Maintenance Records 7/15/2015

UNITED
I & R TAG

PCN	PART NO	NAME	CASHED NO OFF	SER NO IF NO DASH
265-0224	3840019-1	Disc-TI	—	0-357-3907

DASH NO ON	MFG SER NO	
	0-357-3907	0

MAINT SHOPS	PS		SHOP	SHOP CONT	BATCHABLE	R
135A	X	135				

DATE SERVICEABLE	QUANTITY
4-13-02	164

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH THE CURRENT FAA APPROVED [illegible] AND ARE RETURNED SERVICEABLE. THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED HEREIN. SIGNED IN THE SERVICEABLE BLOCK. THIS UNIT IS CERTIFIED AIRWORTHY WITH RESPECT TO THE WORK PERFORMED HEREIN. SIGNED IN THE SERVICEABLE BLOCK. UAL/AIR CARRIER (ALAMEDA) REPAIR STATION (ALBUQUERQUE, SAN FRANCISCO, INTERNATIONAL AIRPORT)

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AC REQ'D	COMPLETION ALL TAGS
PLANE NO	STA	SHOP ORDER NO		
		NV683/P035	P	4116/02 SFOPB

REMOVAL CODE (SEE BACK OF YELLOW STUB)

REASON FOR REMOVAL OR REMARKS (READ)

Installed Only with 36 ea TI Blades 3840004-53

SIGNATURE (OR STAMP) & FILE NO

MC Mears 58607

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

w/o # AL00586763 135#

ON LOCAL I 366

NV683

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS DOES CONDITION AGREE WITH REPORTED TROUBLE? 5 YES 6 NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP ORIGINATED ON (OTHER SIDE OF TAG)

DISPOSITION: 1 OVERHAULED 2 SERVICEABLE 3 TO VENDOR 4 SCRAPPED

SHOP MAIL CODE DATE SIGNATURE AND FILE NO

UNITED

PSEN441A-1
05/20/02

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
COMPOSITION LIST FOR UNIT

REASON: INSTALLATION
SERIAL NUMBER 61929
ORDER NUMBER V691

ENGINE TYPE V
MODULE TYPE

REQUESTOR: MOCOMP
ENGINE NAME APU331
MOOULE NAME

PHONE:
CUST CODE UA
WORK CENTER 551

ORG:

WORK CENTER: 551

TSLV: 01828 CSLV: 02084 TSLM: 01828 CSLM: 02084

SERIAL NBR	ET	MT	NAME	POWER	CUST	
61929		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V691	N598UA	APU	SFO	APU SCAVENGE PUMP OUT LINE SUPP CRACKED	04/28/02

UNIT ACCUMULATIONS

	LIMITS THIS EMO	WTY
13734 TSN 16448 CSN		

UNIT'S COMPOSITION

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	WTY
DRIVEN COMP SE	F	P887	18266 TSN 00000 TSMDPI	20801 CSN 00000 CSMDPI	00000 TSMI	00000 CSMI		
POWER SECTION	N	P1035	17839 TSN 00000 TSMDPI	18978 CSN 00000 CSMDPI	00000 TSMI	00000 CSMI		
GEARBOX ASSMBLY	A	P865	14067 TSN 00000 TSMDPI	14732 CSN 00000 CSMDPI	00000 TSMI	00000 CSMI		

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS				LIMITS THIS EMO	WTY	UNATH PRT
05650 001 FAN -SHROUDED R	P-429 3616959-6-600U	UNK TSN 00000 CSDPI	UNK CSN	00000 TSDPI				

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
COMPOSITION LIST FOR LOWER ASSEMBLY

REASON: INSTALLATION
SERIAL NUMBER 61929
ORDER NUMBER V691

ENGINE TYPE V
MODULE TYPE

REQUESTOR: MOCOMP
ENGINE NAME APU331
MODULE NAME

PHONE:

ORG:

CUST CODE UA
WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
61929		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V691	N598UA	APU	SFO	APU SCAVENGE PUMP OUT LINE SUPP CRACKED	04/28/02

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS			LIMITS THIS EMO	LIMITS WTY
POWER SECTION	N	P1035	17839 TSN 00000 TSMDPI	18978 CSN 00000 CSMDPI	00000 TSMI	00000 CSMI	

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	LIMITS WTY	UNATH PRT
05719 001 BRNG,P/S-THRUST	805 3613827-1	UNK TSN 00000 CSDPI	UNK CSN	00000 TSDPI			
05720 001 BRNG,P/S-ROLLR	1998-253 3822099-1	UNK TSN 00000 CSDPI	UNK CSN	00000 TSDPI			
00993 001 C1 COMP IMPELLR	8-520 3822067-2	20203 TSN 00000 CSDPI	23617 CSN	00000 TSDPI			
00995 001 C2 COMP IMPELLR	0-501-3160 3822068-1	16553 TSN 00000 CSDPI	16749 CSN	00000 TSDPI			
01002 001 COMB CHMBANNULR	OL-6949 3830051-5	19831 TSN 00000 CSDPI	15151 CSN	00000 TSDPI			
01005 001 T1 STATOR VANE	02004035 3844038-4	UNK TSN 00000 CSDPI	UNK CSN	00000 TSDPI			
01009 001 T3 WHEEL ASSY	9-345-5993 3840022-3	16548 TSN 00000 CSDPI	18595 CSN	00000 TSDPI			
01007 001 DISK T2 TURBINE	3-501-2508 3840007-1	10854 TSN 03804 CSDPI	12641 CSN	03615 TSDPI			
01004 001 DISK T1 TURBINE	0-357-3907 3840019-1	00000 TSN 00000 CSDPI	00000 CSN	00000 TSDPI		YES	
01014 001	UA00232047	UNK TSN	UNK CSN	00000 TSDPI			

LLP - T2 Turbine Disk
P/N 3840007-1
S/N 0350101589

9100 S. Dadeland Blvd., Suite 1500, Miami, FL 33156 +1-305-271-6650
info@longreach.com www.longreach.com

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royal air maroc

LIFE LIMITED PARTS STATUS

TT:	19915,00
TC:	26224,00
TT at last SV:	UNK
TC at last SV:	UNK
TSLSV :	UNK
CSLSV :	UNK

Customer : RAM
APU P/N: 3800298-1
APU Serial No.: P-2697

As of :

NOMENCLATURE	PART NUMBER	PSN		PCSN	LMIT VALUE	REMAINING VALUE
T3 WEEL ASSY	3840022-4	734502190		14410,00	25000	10590
DISK T2 TURBINE	3840007-1	350101589		17957,00	20000	2043
DISK T1 TURBINE	3840019-1	135703907		15444,00	20000	4556

AUTHORIZED RELEASE CERTIFICATE

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States		07N3277100

4. Organization Name and Address		5. Work Order/Contract/Invoice Number:
Honeywell International, Inc. 1944 E. Sky Harbor Circle Phoenix, AZ 85034	PRODUCTION APPROVAL TSOA	AL01048296 565440

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial / Batch No.	12. Status / Work:
001	DISK	3040007-1	N/A TSO	000005	030350101616 030350101623 030350101630 030350103080 030350101589	NEW

13. Remarks:

THIS FORM IS ISSUED AT 1944 E. SKY HARBOR CIRCLE PHOENIX, AZ 85034 AS AUTHORIZED BY THE PRODUCTION APPROVAL HOLDER AIRWORTHINESS APPROVAL - PARTS.

14. Certifies the items identified above were manufactured in conformity to:

- [X] Approved design data and are in a condition for safe operation
- [ ] Non-approved design data specified in Block 13

19. [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature	16. Approval/Authorization No:	20. Authorized Signature:	21. Approval/Certificate No:
Susan Blake	ODARF602216NM		
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
SUSAN BLAKE	09/26/03		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

*Installer must cross-check eligibility with applicable technical data.

NSN 0052-00-012-9005

UNITED AIRLINES
BACK TO BIRTH HISTORY

PART NAME: DISK T2 TURBINE
PART NUMBER: 3840007-1
SERIAL NUMBER: 0350101589

CURRENT TIME REMAINING: N/A
CURRENT CYCLES REMAINING: 2271 FROM CSN
CURRENT DAYS REMAINING: N/A

	<-----INSTALL----->						<-----REMOVAL----->							
CUST ID	ENGINE SERIAL#	INSTALL DATE	EON	ENGINE TSN	ENGINE CSN	PART TSN	PART CSN	REMOVAL DATE	EON	ENGINE TSN	ENGINE CSN	PART TSN	PART CSN	USAGE HOURS	USAGE CYCLES
UA	62697	09/12/2013	V539	18025	23603	9152	15336	CURRENT		19723	25996	10850	17729	1698	2393
UA	61607	11/29/2010	V666	26100	35750	6469	11653	05/27/2013	V533	28783	39433	9152	15336	2683	3683
UA	60165	08/01/2007	V364	33935	44414	3674	6060	08/26/2010	V661	36730	50007	6469	11653	2795	5593
UA	61607	12/05/2003	V488	18305	22748	0	0	05/15/2007	V358	21979	28808	3674	6060	3674	6060

TO THE BEST OF MY KNOWLEDGE THE INFORMATION CONTAINED HEREIN WAS OBTAINED FROM DATA MAINTAINED IN ACCORDANCE WITH UAL FAA APPROVED OPERATIONS SPECIFICATIONS.

Linda Gross

Linda Gross - Analyst SFOMR - Maintenance Records 7/15/2015

UNITED AIRLINES
BACK TO BIRTH HISTORY – PRORATE ACCUMULATIONS

IIN:	0308
FUNCTION NUMBER:	01007
PART NAME:	DISK T2 TURBINE
PART NUMBER:	3840007-1
SERIAL NUMBER:	0350101589
TOTAL HOURS:	10850
TOTAL CYCLES:	17729

POWER RATING	TOTAL HOURS AT POWER RATING	TOTAL CYCLES AT POWER RATING
200E	10850	17729

TO THE BEST OF MY KNOWLEDGE THE INFORMATION CONTAINED HEREIN WAS OBTAINED FROM DATA MAINTAINED IN ACCORDANCE WITH UAL FAA APPROVED OPERATIONS SPECIFICATIONS.

Linda Gross

Linda Gross Analyst SFOMR - Maintenance Records 7/15/2015

PART OR MATERIAL CERTIFICATION FORM

1 Part or Material Certification Form — ATA Specification 106

2 **AAR AIRCRAFT & TURBINE CENTER**
DIVISION OF AAR PARTS TRADING, INC.

3 Reference #: 44750

4 Organization

Address

AAR AIRCRAFT & TURBINE CENTER
1100 North Wood Dale Road
Wood Dale, IL 60191.

Phone #: (630)227-2000
FAX #: (630)227-2520
SITA/Wire Code: CHIKKXD
Status: AS7104 ACCREDITED DISTRIBUTOR
CERTIFICATION #103278-E(AC 20-AIR-DU)

5A Seller's Contract #: 1286271

5B Buyer's Contract #: B41049
CHROMALLOY ARIZONA

6 Item	7. Description	8 Manufacturer & Part No	9 Eligibility	10 Qty	11. Serial/Batch #	12 Status
1	DISK	3840007-1 HONEYWELL AEROSPACE SERVICES	TBV/INSTLR	1	030350101589	New

13A Remarks
REF AAR PO# 565440

TAG NUMBER: K21802
NOTE: THESE PARTS WERE NOT OBTAINED FROM ANY U.S. GOVERMENT OR MILITARY SOURCE AND HAVE NOT BEEN SUBJECTED TO SEVERE STRESS OR HEAT [AS IN A MAJOR ENGINE FAILURE,ACCIDENT, OR FIRE].

13B Obtained From: HONEYWELL, AAS

13C Last Certified Agency: N/A

14 *New Parts Material Verification:*
The following signature attests that the part(s) or Material(s) identified above was (were) manufactured by a FAA Production Approval Holder (PAH), or to an industry or commercial standard.

15 SIGNATURE
A&P #

16 NAME (Type or Printed)

17 DATE

18 *Used, Repaired, Overhauled or Surplus Verification:*
The following signature attests that the documentation specified above or attached is accurate with regard to the item(s) described.

19 SIGNATURE
A&P # 356883239

20. NAME (Type or Printed): DAVID MALETZ

21. DATE: 16-OCT-2003

NADCAP
PERFORMANCE REVIEW INSTITUTE®
- Accredited -

FOR RETURN MATERIAL AUTHORIZATION, CONTACT AAR'S CUSTOMER SERVICE (800) 422-2213

LIFE LIMITED PART LOG

ASSEMBLY NAME | PART NUMBER

LIFE LIMITED PART NAME *DISK TURB* | PART NUMBER *3840007-1* | SERIAL NUMBER *030350101589*

MANUFACTURED PER FAR PART 21 UNDER PRODUCTION CERTIFICATE PC413 | SIGNATURE OR ACCEPTANCE STAMP: *INSP STAMP # A-408*

DATE INSTALLED	DATE REMOVED	ENGINE SERIAL NUMBER	TIME ON PART THIS INSTALLATION		TOTAL TIME ON PART		SIGNATURE/FAA NUMBER
			CYCLES*	HOURS	CYCLES*	HOURS	
			0.0	0.0	0.0	0.0	

* SEE SERVICE LIFE LIMITS OF CRITICAL LIFE LIMITED COMPONENTS. ENTRIES SHALL COMPLY TO FAR 43.

PX-3107-76C

LIFE LIMITED PART MAINTENANCE RECORD

DATE	MAINTENANCE PERFORMED	AUTHORIZED SIGNATURE

PX-3107-76 BACK

UNITED
I & R TAG

PCN	PART NO	NAME	DASH NO OR	DASH NO ON	SER NO IF NOT	
265-0222	3840007-1	DISK-T2		—		

MAINT STATION	PS											MFG SER NO		GRND NEW	
	X	E74	RAL 542									0350101589		NEW	
			7247									551 HOURS/CYCLES	CHRONO CONT	RATCHABLE	R
												DATE SCRAPPABLE 11-3-03		QUANTITY 1	

THE REPAIRS SPECIFIED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC 3 & CONFORM TO CURRENT PARTS WHEN SHOWN IN THE SERVICEABLE BLOCK. THIS UNIT IS CERTIFIED AUTHORITY WITH RESPECT TO THE WORK PERFORMED. PERTINENT REC IS ON FILE AT UAL AIRCARE FUJAIRAH & REPAIR STATION UAL FUJ, UAL FURNISHED COMPONENT UNAUTHORIZED DEVIATIONS

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETION ON ALL TAGS	
FLIGHT NO	PLANE NO	WORK ORDER NO (OPTIONAL)	INSPECTOR	POSITION	DATE	STA
		NV473/P146	P	APU	01.04.03	SFOLD

NEW UNIT CODE - SEE BACK OF YELLOW STUB

1 ☐ NEW

2 ☐ TROUBLE

3 ☐ OTHER

REASON FOR REMOVAL OR DISPOSITION OF REMOVED UNIT

Installed 40ct T² Blades & Balance f/w E3840006-2

SIGNATURE (OR STAMP) & FILE NO.

7247 99251

NON-REPORTABLE UNIT-MRDATA TRANSACTION NOT REQUIRED.

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE UNIT REMARKS IN THIS AREA

ON LOGGED BY

ON NV473

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS: DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE?

SHOP FINDINGS

WORK ACCOMPLISHED

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO.

UNITED

PSEN442A-1
12/05/03

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
COMPOSITION LIST FOR UNIT

REASON: INSTALLATION
SERIAL NUMBER 61607
ORDER NUMBER V488

ENGINE TYPE V
MODULE TYPE

REQUESTOR: MOCOMP
ENGINE NAME APU331
MODULE NAME

PHONE:
CUST CODE UA
WORK CENTER 551

ORG:

WORK CENTER: 551

TSLV: 01958 CSLV: 03048 TSLM: 01958 CSLM: 03048

SERIAL NBR	ET	MT	NAME	POWER	CUST	
61607		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V488	N577UA	APU	SFO	HIGH OIL CONSUMPTION	10/30/03

UNIT ACCUMULATIONS

LIMITS THIS EMO | WTY

18305 TSN 22748 CSN

UNIT'S COMPOSITION

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	WTY
DRIVEN COMP SE	F	P1360	16602 TSN 00000 TSMOPI	18704 CSN 00000 CSMOPI	00000 TSMI	00000 CSMI		
POWER SECTION	N	P146	32724 TSN 00000 TSMOPI	41812 CSN 00000 CSMOPI	00000 TSMI	00000 CSMI		
GEARBOX ASSMBLY	A	P-254	16963 TSN 02422 TSMOPI	19013 CSN 03266 CSMOPI	00000 TSMI	00000 CSMI		

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS				LIMITS THIS EMO	WTY	UNATH PRT
05650 001 FAN -SHROUDED R	P-1368 3616959-6-6000	14760 TSN 03266 CSOPI	UNK	CSN	02422 TSOPI			

REASON: INSTALLATION REQUESTOR: MOCOMP PHONE: ORG:
SERIAL NUMBER 61607 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V488 MODULE TYPE MODULE NAME WORK CENTER 551

SERIAL NBR	ET MT	NAME	POWER	CUST	
61607	V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	PDS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V488	N577UA	APU	SFO	HIGH OIL CONSUMPTION	10/30/03

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	LIMITS WTY
DRIVEN COMP SE	F	P1360	16602 TSN	18704 CSN	00000 TSMI	00000 CSMI		
			00000 TSMDPI	00000 CSMDPI				

FUNC PDS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	LIMITS WTY	UNATH PRT
00988 001	UA00203991	15809 TSN	17639 CSN	00000 TSDPI			
IGV ASSY VARIBL	3810231-21	00000 CSDPI	08515 TSS-9089				
00989 001	0065104892	04752 TSN	05834 CSN	00000 TSDPI		YES	
IMPELLER-DRCOMP	3822080-3	00000 CSDPI					
05760 001	031998-378	UNK TSN	UNK CSN	00000 TSDPI			
BRNG-D/C THRUST	3613827-1	00000 CSDPI					
05746 001	031998-362	UNK TSN	UNK CSN	00000 TSDPI			
BRNG-D/C ROLLER	3822099-1	00000 CSDPI					

REASON: INSTALLATION
SERIAL NUMBER 61607
ORDER NUMBER V488

ENGINE TYPE V
MODULE TYPE

REQUESTOR: MOCOMP
ENGINE NAME APU331
MODULE NAME

PHONE:

ORG:
CUST CODE UA
WORK CENTER 551

SERIAL NBR	ET MT	NAME	POWER	CUST
61607	V	APU331	200E	UA UNITED AIRLINES

ORDER NUMBER	PLANE NBR	PDS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V488	N577UA	APU	SFO	HIGH OIL CONSUMPTION	10/30/03

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS			LIMITS THIS EMD	WTY
POWER SECTION	N	P146	32724 TSN 00000 TSMDPI	41812 CSN 00000 CSMDPI	00000 TSMI	00000 CSMI	

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMD	WTY	UNATH PRT
05719 001 BRNG,P/S-THRUST	S1998-272 3613827-1	UNK TSN 00000 CSDPI	UNK CSN	00000 TSDPI			
05720 001 BRNG,P/S-ROLLR	031998-361 3822099-1	UNK TSN 00000 CSDPI	UNK CSN	00000 TSDPI			
00993 001 C1 COMP IMPELLR	9-160-1901 3822067-2	17292 TSN 00000 CSDPI	19953 CSN	00000 TSDPI			
00995 001 C2 COMP IMPELLR	0-501-7349 3822068-1	UNK TSN 00000 CSDPI	UNK CSN	00000 TSDPI			
01002 001 COMB CHMBANNULR	96376 3830051-5	UNK TSN 00000 CSDPI	UNK CSN	00000 TSDPI			
01005 001 T1 STATOR VANE	MG9-S055 E3844038-4	00000 TSN 00000 CSDPI	00000 CSN	00000 TSDPI		YES	
01009 001 T3 WHEEL ASSY	0-345-6010 3840022-3	16109 TSN 00000 CSDPI	18897 CSN	00000 TSDPI			
01007 001 DISK T2 TURBINE	0350101589 3840007-1	00000 TSN 00000 CSDPI	00000 CSN	00000 TSDPI		YES	
01004 001 DISK T1 TURBINE	0235702427 3840019-1	00000 TSN 00000 CSDPI	00000 CSN	00000 TSDPI		YES	
01014 001 NOZZLE SET PRIM	UA00377431 331NOZPRI1	00000 TSN 00000 CSDPI	00000 CSN	00000 TSDPI		YES	

REASON: INSTALLATION
SERIAL NUMBER 61607
ORDER NUMBER V488

ENGINE TYPE V
MODULE TYPE

REQUESTOR: MOCOMP
ENGINE NAME APU331
MODULE NAME

PHONE:

ORG:

CUST CODE UA
WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
61607	V		APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V488	N577UA	APU	SFO	HIGH OIL CONSUMPTION	10/30/03

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMD	WTY	UNATH PRT
01015 001	UA00377430	00000 TSN	00000 CSN	00000 TSOPI		YES	
NOZZLE SET SECD	331NOZSEC1	00000 CSOPI					

UNITED

PSEN442A-1
12/05/03

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
COMPOSITION LIST FOR LOWER ASSEMBLY

REASON: INSTALLATION
SERIAL NUMBER 61607
ORDER NUMBER V488

ENGINE TYPE V
MODULE TYPE

REQUESTOR: MOCOMP
ENGINE NAME APU331
MODULE NAME

PHONE:
ORG:
CUST CODE UA
WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
61607	V		APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V488	N577UA	APU	SFD	HIGH OIL CONSUMPTION	10/30/03

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS			LIMITS THIS EMO	WTY
GEARBOX ASSMBLY	A	P-254	16963 TSN 02422 TSNOPI	19013 CSN 03266 CSNOPI	00000 TSMI	00000 CSMI	

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	WTY	UNATH PRT
00987 001 GEARBOX HOUSING	2L-2404 3862699-1	16026 TSN 03266 CSOPI	16164 CSN	02422 TSOPI			

* * * END OF REPORT FOR ENG - V MT - SN - 61607 * * *

LLP - T3 Turbine Disk
P/N 3840022-4
S/N 0734502190

9100 S. Dadeland Blvd., Suite 1500, Miami, FL 33156 +1-305-271-6650
info@longreach.com www.longreach.com

الخطوط الملكية المغربية
royal air maroc

LIFE LIMITED PARTS STATUS

TT:	19915,00
TC:	26224,00
TT at last SV:	UNK
TC at last SV:	UNK
TSLSV :	UNK
CSLSV :	UNK

Customer : RAM
APU P/N: 3800298-1
APU Serial No.: P-2697

As of :

					LMIT VALUE	REMAINING VALUE
NOMENCLATURE	PART NUMBER	PSN		PCSN		
T3 WEEL ASSY	3840022-4	734502190		14410,00	25000	10590
DISK T2 TURBINE	3840007-1	350101589		17957,00	20000	2043
DISK T1 TURBINE	3840019-1	135703907		15444,00	20000	4556

1 Pc# BW0114

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	07N4701500

4. Organization Name and Address:		5. Work Order/Contract/Invoice Number:
Honeywell International, Inc. 1944 E. Sky Harbor Circle Phoenix, AZ 85034	PRODUCTION APPROVAL PT1222NM	AL01498667 BW0114 PAGE 1/ 1

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial / Batch No:	12. Status / Work:
001	WHEEL	3840022-4	N/A	1	070134502190	NEW

13. Remarks:

THIS FORM IS ISSUED AT 1944 E. SKY HARBOR CIRCLE PHOENIX, AZ 85034 AS AUTHORIZED BY THE PRODUCTION APPROVAL HOLDER AIRWORTHINESS APPROVAL
THIS PART IS A SUBCOMPONENT OF A PMA/TSO AUTHORIZATION.

14. Certifies the items identified above were manufactured in conformity to:

- [X] Approved design data and are in a condition for safe operation.
- [ ] Non-approved design data specified in Block 13.

19. [ ] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No:	20. Authorized Signature:	21. Approval/Certificate No:
	ODARF602216NM		
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
MARK FIELDS	APR/23/2007		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 & 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

*Installer must cross-check eligibility with applicable technical data.

NSN:0052-00-012-9005

UNITED AIRLINES
BACK TO BIRTH HISTORY

PART NAME: T3 WHEEL ASSY
PART NUMBER: 3840022-4
SERIAL NUMBER: 0734502190

CURRENT TIME REMAINING: N/A
CURRENT CYCLES REMAINING: 10818 FROM CSN
CURRENT DAYS REMAINING: N/A

	<-----INSTALL----->						<-----REMOVAL----->							
CUST ID	ENGINE SERIAL#	INSTALL DATE	EON	ENGINE TSN	ENGINE CSN	PART TSN	PART CSN	REMOVAL DATE	EON	ENGINE TSN	ENGINE CSN	PART TSN	PART CSN	USAGE HOURS	USAGE CYCLES
UA	62697	09/12/2013	V539	18025	23603	6780	11789	CURRENT		19723	25996	8478	14182	1698	2393
UA	61832	08/31/2009	V571	21727	23994	1961	3661	02/15/2013	V440	26546	32122	6780	11789	4819	8128
UA	61914	07/23/2007	V360	21198	24128	0	0	05/11/2009	V569	23159	27789	1961	3661	1961	3661

TO THE BEST OF MY KNOWLEDGE THE INFORMATION CONTAINED HEREIN WAS OBTAINED FROM DATA MAINTAINED IN ACCORDANCE WITH UAL FAA APPROVED OPERATIONS SPECIFICATIONS.

Linda Gross

Linda Gross - Analyst SFOMR - Maintenance Records 7/15/2015

UNITED AIRLINES
BACK TO BIRTH HISTORY – PRORATE ACCUMULATIONS

IIN:	0310
FUNCTION NUMBER:	01009
PART NAME:	T3 WHEEL ASSY
PART NUMBER:	3840022-4
SERIAL NUMBER:	0734502190
TOTAL HOURS:	8478
TOTAL CYCLES:	14182

POWER RATING	TOTAL HOURS AT POWER RATING	TOTAL CYCLES AT POWER RATING
200E	8478	14182

TO THE BEST OF MY KNOWLEDGE THE INFORMATION CONTAINED HEREIN WAS OBTAINED FROM DATA MAINTAINED IN ACCORDANCE WITH UAL FAA APPROVED OPERATIONS SPECIFICATIONS.

Linda Gross

Linda Gross Analyst SFOMR - Maintenance Records 7/15/2015

LIFE LIMITED PART LOG

ASSEMBLY NAME | PART NUMBER

LIFE LIMITED PART NAME: *WHEEL ASSY TURB* | PART NUMBER: *3840022-4* | SERIAL NUMBER: *070134502190*

MANUFACTURED PER FAR PART 21 UNDER PRODUCTION CERTIFICATE PC413 | SIGNATURE OR ACCEPTANCE STAMP: ***INSP STAMP # A-166***

DATE INSTALLED	DATE REMOVED	ENGINE SERIAL NUMBER	TIME ON PART THIS INSTALLATION		TOTAL TIME ON PART		SIGNATURE, FAA NUMBER
			CYCLES*	HOURS	CYCLES*	HOURS	
			0:0	0:0	0:0	0.0	

* SEE SERVICE LIFE LIMITS OF CRITICAL LIFE LIMITED COMPONENTS. ENTRIES SHALL COMPY TO FAR 43.

PX-3107-760

LIFE LIMITED PART MAINTENANCE RECORD

DATE	MAINTENANCE PERFORMED	AUTHORIZED SIGNATURE

PX-3107-76 BACK

NEW TT=0 TC=0 I209A

UNITED I & R TAG

PCN	PART NO.	NAME	DASHED NO. OFF	SER. NO. IF NO DASH
265-0223	3840022-4	wheel T-3	DASH NO. ON 0734502190	MFG. SER. NO. / UTSO ø

MAINT. SHOPS	PS	E74	HOME SHOP	SHIP CONT.	BATCHABLE	R
I209A	X	I209A	DATE SERVICEABLE 05-22-07		QUANTITY 1	

THE REPAIRS DESCRIBED HEREIN HAVE BEEN PERFORMED & INSPECTED IN ACCORDANCE WITH UAL SPEC'S & CONFORM TO CURRENT FAR'S. WHEN SIGNED IN THE SERVICEABLE BLOCK, THIS UNIT IS CERTIFIED AIRWORTHY, WITH RESPECT TO THE WORK PERFORMED. PERTINENT INFO. IS ON FILE AT UAL (AIR CARRIER UALA011A, & REPAIR STATION UALR011A) SAN FRANCISCO INTERNATIONAL AIRPORT, CA 94128

NOT SERVICEABLE IF SIGNED YELLOW STUB DETACHED

COMPLETE IF PLANE INVOLVED		COMPLETE IF PLANE NOT INVOLVED	COMPLETE AS REQUIRED		COMPLETE ON ALL TAGS	
PLANE NO.	PLANE TSO	NHA PCN AND DASH NO.	NHA CODE*	POSITION	DATE	STA
		NV354 / 61758	P	APU	6 2 07	SFOPB

REMOVAL CODE - SEE BACK OF YELLOW STUB.

1 ☐ TIME
2 ☐ TROUBLE
3 ☐ OTHER

REASON FOR REMOVAL OR REPORTED TROUBLE:

SIGNATURE (OR STAMP) & FILE NO.

78906

NON-REPORTABLE UNIT MRDATA TRANSACTION NOT REQUIRED

UNITED AIRLINES IDENTIFICATION & ROUTING TAG

SERVICEABLE
UNIT REMARKS
IN THIS AREA

ON LOGGED BY 1209A
ON NV354

REPAIR SHOP DATA - (REQUIRED FOR MR UNITS)

TROUBLE RMVLS: DOES CONDITION AGREE WITH REPORTED TROUBLE? 1 ☐ YES 2 ☐ NO

WAS OTHER CONDITION FOUND WHICH WOULD CAUSE REMOVAL 5 ☐ YES 6 ☐ NO

IF YES, WHAT CAUSED FAILURE? _____

SHOP FINDINGS:

WORK ACCOMPLISHED:

NOTE: BE SURE REQUIRED ENTRIES APPEAR ON TOP, GREEN TINTED LINE, OTHER SIDE OF TAG

DISPOSITION: 1 ☐ OVERHAULED 2 ☐ SERVICEABLE 3 ☐ TO VENDOR 4 ☐ SCRAP/SURPLUS

SHOP MAIL CODE _____ DATE _____ SIGNATURE AND FILE NO. _____

REASON: INSTALLATION REQUESTOR: MOCOMP PHONE: ORG:
SERIAL NUMBER 61914 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V360 MODULE TYPE MODULE NAME WORK CENTER 551

WORK CENTER: 551 TSLV: 01416 CSLV: 01301 TSLM: 01416 CSLM: 01301

SERIAL NBR	ET	MT	NAME	POWER	CUST	
61914		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V360	N573UA	APU	DEN	APU BLEED VALVE INOP	05/22/07

UNIT ACCUMULATIONS

	LIMITS THIS EMO	WTY
21198 TSN 24128 CSN		

UNIT'S COMPOSITION

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	WTY
DRIVEN COMP SE	F	P-1181	21714 TSN	29894 CSN	00000 TSMI	00000 CSMI		
			00000 TSMDPI	00000 CSMDPI				
POWER SECTION	N	P1083	22646 TSN	30056 CSN	00000 TSMI	00000 CSMI		
			00000 TSMDPI	00000 CSMDPI				
GEARBOX ASSMBLY	A	P225	28467 TSN	29264 CSN	01416 TSMI	01301 CSMI		
			01416 TSMDPI	01301 CSMDPI				

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	WTY	UNATH PRT
05650 001	P-1417	UNK TSN	UNK CSN	01416 TSDPI			
FAN -SHROUDED R	3616958-6	01301 CSDPI					

REASON: INSTALLATION REQUESTOR: MGCOMP PHONE: ORG:
SERIAL NUMBER 61914 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V360 MODULE TYPE MODULE NAME WORK CENTER 551

SERIAL NBR	FI	MT	NAME	POWER	CUST	
61914		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V360	N573UA	APU	DEN	APU BLEED VALVE INOP	05/22/07

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	LIMITS WTY
DRIVEN COMP SE	F	P-1181	21714 TSN	29894 CSN	00000 TSMI	00000 CSMI		
			00000 TSMDPI	00000 CSMDPI				

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	LIMITS WTY	UNATH PRT
00988 001	1909	UNK TSN	UNK CSN	00000 TSDPI			
IGV ASSY VARIBL	3810231-21	00000 CSDPI	10320 TSS-9089				
00989 001	0650105588	00000 TSN	00000 CSN	00000 TSDPI		YES	
IMPELLER-DRCOMP	3822080-3	00000 CSDPI					
05760 001	051998-128	UNK TSN	UNK CSN	00000 TSDPI			
BRNG-D/C THRUST	3613827-1	00000 CSDPI					
05746 001	10064	00000 TSN	00000 CSN	00000 TSDPI		YES	
BRNG-D/C ROLLER	3822099-1WD	00000 CSDPI					

REASON: INSTALLATION REQUESTOR: MOCOMP PHONE: ORG:
SERIAL NUMBER 61914 ENGINE TYPE V ENGINE NAME APU331 CUST CODE UA
ORDER NUMBER V360 MODULE TYPE MODULE NAME WORK CENTER 551

SERIAL NBR	ET	MT	NAME	POWER	CUST	
61914	V		APU331	206E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V360	N573UA	APU	DEN	APU BLEED VALVE INOP	05/22/07

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	LIMITS WTY
POWER SECTION	N	P1083	22646 TSN	30056 CSN	00000 TSMI	00000 CSMI		
			00000 TSMDPI	00000 CSMDPI				

FUNC POS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	LIMITS WTY	UNATH PRT
05719 001 BRNG,P/S-THRUST	0633003914 3613827-1	00000 TSN 00000 CSDPI	00000 CSN	00000 TSDPI		YES	
05720 001 BRNG,P/S-ROLLR	10099 3822099-1WD	00000 TSN 00000 CSDPI	00000 CSN	00000 TSDPI		YES	
00993 001 C1 COMP IMPELLR	99-10-1622 3822067-2	08030 TSN 00000 CSDPI	14028 CSN	00000 TSDPI		YES	
00995 001 C2 COMP IMPELLR	8-229-3074 3822068-1	UNK TSN 00000 CSDPI	UNK CSN	00000 TSDPI			
01002 001 COMB CHMBANNULR	113820 3830051-5	UNK TSN 00000 CSDPI	UNK CSN	00000 TSDPI			
01005 001 T1 STATOR VANE	TC14-215 E3844038-4	00000 TSN 00000 CSDPI	00000 CSN	00000 TSDPI		YES	
01009 001 T3 WHEEL ASSY	0734502190 3840022-4	00000 TSN 00000 CSDPI	00000 CSN	00000 TSDPI		YES	
01007 001 DISK T2 TURBINE	0650110389 3840007-1	00000 TSN 00000 CSDPI	00000 CSN	00000 TSDPI		YES	
01004 001 DISK T1 TURBINE	0235701713 3840019-1	03136 TSN 00000 CSDPI	07744 CSN	00000 TSDPI		YES	
01014 001 NOZZLE SET PRIM	UA00456112 331NOZPRI1	UNK TSN 00000 CSDPI	UNK CSN	00000 TSDPI			

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
COMPOSITION LIST FOR LOWER ASSEMBLY

REASON: INSTALLATION — REQUESTOR: MOCOMP — PHONE: — ORG:
SERIAL NUMBER 61914 — ENGINE TYPE V — ENGINE NAME APU331 — CUST CODE UA
ORDER NUMBER V360 — MODULE TYPE — MODULE NAME — WORK CENTER 551

SERIAL NBR	RT	MT	NAME	POWER	CUST	
61914		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V360	N573UA	APU	DEN	APU BLEED VALVE INOP	05/22/07

FUNC PDS NAME	SERIAL NBR PART NUMBER	FUNCTION ACCUMULATIONS	LIMITS THIS EMO	WTY	UNAUTH PRT
01015 001	UA00456113	UNK TSN UNK CSN 00000 TSDPI			
NOZZLE SET SECD	331NOZSEC1	00000 CSDPI			

UNITED AIRLINES ENGINE MAINTENANCE SYSTEM
COMPOSITION LIST FOR LOWER ASSEMBLY

REASON: INSTALLATION
SERIAL NUMBER 61914 ENGINE TYPE V REQUESTOR: MOCOMP PHONE: ORG:
ORDER NUMBER V360 MODULE TYPE ENGINE NAME APU331 CUST CODE UA
MODULE NAME WORK CENTER 551

SERIAL NBR	FT	MT	NAME	POWER	CUST	
61914		V	APU331	200E	UA	UNITED AIRLINES

ORDER NUMBER	PLANE NBR	POS	STA	REASON REMOVED OR MAINTENANCED	DATE MAINT
V360	N573UA	APU	DEN	APU BLEED VALVE INOP	05/22/07

MODULE/SUBMODULE BEING REPORTED

NAME	MT	SERIAL NBR	MODULE ACCUMULATIONS				LIMITS THIS EMO	LIMITS WTY
GEARBOX ASSMBLY	A	P225	26467 TSN	29264 CSN	01416 TSMI	01301 CSMI		
			01416 TSMDPI	01301 CSMDPI				

FUNC NAME	POS	SERIAL NBR / PART NUMBER	FUNCTION ACCUMULATIONS			LIMITS THIS EMO	LIMITS WTY	UNATH PRT
00987 001		GL-6066	23476 TSN	27547 CSN	01416 TSDPI			
GEARBOX HOUSING		3862699-3	01301 CSDPI					

* * * END OF REPORT FOR ENG - V MT - SN - 61914 * * *

Log Book

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