

1. Approving Competent Authority/Country  EASA	2. AUTHORISED RELEASE CERTIFICATE  EASA FORM 1				3. Form Tracking Number  20170003782291Y02 330005518
4. Organisation Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619					5. Work Order/Contract/Invoice  10453748  330006248 Page 1 of 2
6. Item	7. Description	8. Part No	9. Qty	10. Serial No.	11. Status/Work
001	ENGINE OUTLINE GAS TURBINE	3800550-1	1	P-2273	OVERHAULED
<b>12. Remarks</b> THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH: SPM 20-00-02/70-00-01 Rev 20, FEB/24/2016 IRM 49-24-79 Rev 9, APR/29/2016 IPC 49-26-55 Rev 18, DEC/06/2016 EM 49-26-57 Rev 20, SEP/27/2016 CMM 49-42-05 Rev 2, NOV/11/2014  NO AIRWORTHINESS DIRECTIVES APPLICABLE TO THIS APU. REFER TO FORM GTCP331-500-G16-R.7 ATTACHED FOR LIFE LIMITED PARTS. REFER TO SERVICE BULLETIN COMPLIANCE ATTACHED FOR ALL SERVICE BULLETINS COMPLIANCE. TEXT CONTINUED ON RIGHT SIDE					
CONTINUED: TSN: 7184:03 CSN: 4819 IS AT POINT OF APU ASSEMBLY AND DERIVED FROM DMM. DMM HRS/CYCLES ON RELEASE IS 7186:02 / 4825 (1:59 HRS AND 6 CYCLES USED IN APU FINAL TESTING). APU PRESERVATION AND STORAGE FOR A PERIOD OF UP TO 24 MONTHS AS PER SB 49-7997 REV 5, REV DATE FEB/ 3/2017. SHIP LESS: STARTER MOTOR PROTECTOR P/N: 2709968-1, GENERATOR BLANK COVER P/N: 3862212-3.					
See continuation page					
13a. Certifies that the items identified above were manufactured in conformity to:  <input checked="" type="checkbox"/> approved design data and are in condition for safe operation <input type="checkbox"/> non-approved design data specified in block 12			14a <input checked="" type="checkbox"/> Part-145.A.50 Release to Service <input type="checkbox"/> Other regulation 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 Part-145 and in respect to that work the items are considered ready for release to service.		
13b. Authorised Signature		13c. Approval/Authorisation Number	14b. Authorised Signature  	14c. Certificate/Approval Ref. No  EASA.145.0076	
13d. Name		13e. Date (dd mmm yyyy)	14d. Name Tan Chat Pang	14e. Date (dd mmm yyyy) 17 OCT 2017	
<b>USER/INSTALLER RESPONSIBILITIES</b> This certificate does not automatically constitute authority to install the item(s). Where the user/installer performs work in accordance with regulation of an airworthiness authority different than the airworthiness authority specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts items from the airworthiness authority specified in block 1. Statements 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.					

**Form Tracking Number :****12. Remarks (Continued) :**

HH.DD      (HH:MM)

TSN      7184.05      (7184:03)

CSN      4819.00

TSO      0.00      (0:00)

CSO      0.00

SERIES/ISSUE/AMDTs: 62

1. Approving Civil Aviation Authority/Country: <b>FAA/United States</b>	2. <b>AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b>				3. Form Tracking Number: 20170003782292Y03 330005518
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619		Repair Station FT4Y192M			5. Work Order/Contract/Invoice Number: 10453748 330006248 Page 1 of 2
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status / Work:
001	ENGINE OUTLINE GAS TURBINE	3800550-1	1	P-2273	OVERHAULED
12. Remarks:  THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH: SPM 20-00-02/70-00-01 Rev 20, FEB/24/2016 IRM 49-24-79 Rev 9, APR/29/2016 IPC 49-26-55 Rev 18, DEC/06/2016 EM 49-26-57 Rev 20, SEP/27/2016 CMM 49-42-05 Rev 2, NOV/11/2014  NO AIRWORTHINESS DIRECTIVES APPLICABLE TO THIS APU. REFER TO FORM GTCP331-500-G16-R.7 ATTACHED FOR LIFE LIMITED PARTS. REFER TO SERVICE BULLETIN COMPLIANCE ATTACHED FOR ALL SERVICE BULLETINS COMPLIANCE. TEXT CONTINUED ON RIGHT SIDE		<b>CONTINUED:</b> TSN: 7184:03 CSN: 4819 IS AT POINT OF APU ASSEMBLY AND DERIVED FROM DMM. DMM HRS/CYCLES ON RELEASE IS 7186:02 / 4825 (1:59 HRS AND 6 CYCLES USED IN APU FINAL TESTING). APU PRESERVATION AND STORAGE FOR A PERIOD OF UP TO 24 MONTHS AS PER SB 49-7997 REV 5, REV DATE FEB/ 3/2017. SHIP LESS: STARTER MOTOR PROTECTOR P/N: 2709968-1, GENERATOR BLANK COVER P/N: 3862212-3.			
See Continuation page					
SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED					
13a. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.		14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 12 Certificates 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.:		
13d. Name (Typed or Printed):	13e. Date(dd/mmm/yyyy):	14d. Name (Typed or Printed):	14e. Date (dd/mmm/yyyy):		
<b>User / Installer Responsibilities</b>  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. Statements 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.					

## 12. Remarks (Continued) :

HH.DD (HH:MM)

TSN 7184.05 (7184:03)

CSN 4819.00

TSO 0.00 (0:00)

CSO 0.00

SERIES/ISSUE/AMDTS : 62

1. Country <b>SINGAPORE</b>	2. CIVIL AVIATION AUTHORITY OF SINGAPORE <b>AUTHORIZED RELEASE CERTIFICATE</b> <b>CAAS(AW)95</b>				3. Form Tracking Number: 20170003782293Y06 330005518
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619				Repair Station AWI/38	5. Work Order/Contract/Invoice Number: 10453748 330006248 Page 1 of 2
6.Item:	7. Description: <b>001 ENGINE OUTLINE GAS TURBINE</b>	8. Part Number: <b>3800550-1</b>	9. Eligibility: <b>N/A</b>	10. Quantity: <b>1</b>	11. Serial / Batch Number: <b>P-2273</b>
12. Status / Work: <b>OVERHAULED</b>					
<p>13. Remarks :          THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:          SPM 20-00-02/70-00-01 Rev 20, FEB/24/2016          IRM 49-24-79 Rev 9, APR/29/2016          IPC 49-26-55 Rev 18, DEC/06/2016          EM 49-26-57 Rev 20, SEP/27/2016          CMM 49-42-05 Rev 2, NOV/11/2014            NO AIRWORTHINESS DIRECTIVES APPLICABLE TO THIS APU.          REFER TO FORM GTCP331-500-G16-R.7 ATTACHED FOR LIFE LIMITED PARTS.          REFER TO SERVICE BULLETIN COMPLIANCE ATTACHED FOR ALL SERVICE BULLETINS COMPLIANCE.          TEXT CONTINUED ON RIGHT SIDE       </p> <p style="text-align: right;">See continuation Page</p> <p>CONTINUED:          TSN: 7184:03 CSN: 4819 IS AT POINT OF APU ASSEMBLY AND DERIVED FROM DMM.          DMM HRS/CYCLES ON RELEASE IS 7186:02 / 4825 (1:59 HRS AND 6 CYCLES USED IN APU FINAL TESTING).          APU PRESERVATION AND STORAGE FOR A PERIOD OF UP TO 24 MONTHS AS PER SB 49-7997 REV 5, REV DATE FEB/ 3/2017.          SHIP LESS: STARTER MOTOR PROTECTOR P/N: 2709968-1, GENERATOR BLANK COVER P/N: 3862212-3.</p>					
SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED					
14. NEW PARTS Certificates the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in condition for safe operation <input type="checkbox"/> Non-approved design data specified in Block 13		19. USED PARTS <input checked="" type="checkbox"/> SAR-145.50 Release to Service <input type="checkbox"/> Other regulation specified in Block 13. Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with SAR 145 and the Air Navigation Order and in respect to that work the items are considered ready for release to service.			
15. Authorized Signature:		16. CAAS Approval No.:	20. Authorized Signature:	21. CAAS Approval No.: <b>AWI/38</b>	
17. Name (Typed or Printed):		18. Date (dd mmm yyyy):	22. Name (Typed or Printed): <b>Tan Chat Pang</b>	23. Date (dd mmm yyyy): <b>17 OCT 2017</b>	
<b>User / Installer Responsibilities</b>					
1. It is important to understand that the existence of the Certificate alone does not automatically constitute authority to install the part/component/assembly. 2. Where the user/installer works in accordance with the national regulations of an Airworthiness Authority different from the Civil Aviation Authority of Singapore(CAAS), it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the CAAS. 3. Statements 14 and 19 do not constitute installation certification. In all cases, the aircraft maintenance record must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.					

( Continued )

Form Tracking Number : 20170003782293Y06

Page 2 of 2

13. Remarks (Continued) :

HH.DD (HH:MM)

TSN 7184.05 (7184:03)

CSN 4819.00

TSO 0.00 (0:00)

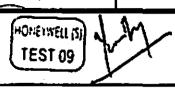
CSO 0.00

SERIES/ISSUE/AMDTs:62

Honeywell Aerospace Singapore Pte Ltd

## GTCP 331-500[B] PERFORMANCE DATA SHEET

NOTIFICATION NUMBER	330005518		SERVICE ORDER	5011527375	
APU MODEL	GTCP331-500[B]		PART NUMBER	3800550-1	
OPERATION TEXT	LAB TEST		MANUAL	EM 49-26-57	
OPERATION NO	0220		REVISION	20	
QUANTITY	UNITS	NO LOAD	103°F ECS MODE	103°F MES MODE	
BAROMETRIC PRESSURE	PSIA	14.59	14.59	14.59	
FUEL INLET PRESSURE	PSIG	25.5	20.8	20.3	
OIL PUMP DISCHARGE PRESSURE	PSIG	64.6	63.5	63.4	
OIL PUMP DISCHARGE TEMPERATURE	°F	160	163	162	
GEARBOX PRESSURE	PSIA	14.96	14.89	14.86	
COMPRESSOR INLET TEMPERATURE	MEASURED	°F	96.5	99.2	98.5
APU INLET TEMPERATURE (T2) (ARINC)		°F	101.5	103.7	101.8
TURBINE DISCHARGE TEMPERATURE (UNIT RAKES)	UPPER (EGT 1) LOWER (EGT 2)	°F	717.4 725.3	1063.9 1076.7	1087.6 1112.1
EXHAUST GAS TOTAL TEMPERATURE (LA)	MEASURED CORRECTED	°F	739.3	1075.6	1103.4
ORIFICE INLET AIR PRESSURE	" Hg			75.6	86.5
ORIFICE INLET TEMPERATURE	°F			410.5	420.1
ORIFICE DELTA PRESSURE	" H <sub>2</sub> O			59.92	24.48
IGV POSITION** (IGVPOS)	DEGREES			12.5	5.0
IGV PERFORMANCE ADJ (IGVPERADJ)	DEGREES			5.0	
BLEED AIRFLOW	ACTUAL CORRECTED	LBS/MIN		474.86 470.8	320.04 299.2
RESTRICTED AIRFLOW (DISC. CORR. FLOW)		LBS/MIN		166.88	106.02
BLEED AIR TOTAL PRESSURE	INDICATED CORRECTED	PSIA		54.5 54.2	58.2 54.3
BLEED AIR TOTAL TEMPERATURE	INDICATED CORRECTED	°F		420.7 424.6	430.9 427.7
UNIT VIBRATION	ACCESSORY TURBINE	IN/SEC	0.23 0.34	0.14 0.36	0.15 0.39
TURBINE WHEEL SPEED		RPM	39041	39041	39038
SHAFT LOAD	APPLIED CORRECTED	SHP		179.3 180.7	179.4 180.7
FUEL CONSUMPTION	INDICATED CORRECTED	LBS/HR	336.8 626	626 628.00	653 627.24

TEST TECHNICIAN :   
HONEYWELL ST  
TEST 09  
Stamp & Sign  
DATE : 16-Oct-2017

QUALITY CONTROL :   
HONEYWELL QC  
17 OCT 2017  
Stamp & Sign  
DATE : 17 OCT 2017

**TURBINE ACCEPTANCE TAG AND TRACEABILITY INPUT LIFE LIMITED PARTS RECORD/TRACE INPUT PAGE**

PART NO: 3800550-1

SERIAL NO: P-2273

CUSTOMER: SINGAPORE AIRLINES LTD

MODEL: GTCP331-500B

SERIES: 62

DATE: 17-Oct-17

S/O NO: 5011527375

TSN: 7184:03

CSN: 4819

TSR: NA

CSR: NA

NOTIFICATION NO: 330005518

TSO: 0:00

CSO: 0

DESCRIPTION	PART NO	SERIAL NO	LOT NO	TSN	CSN	LIFE LIMITS (CYCLES)	REMARKS
D/COMP IMPELLER	3822612-1	13-182449-08188	-	7184:03	4819	27000	OVERHAULED
1ST STG IMPELLER	3822611-1	13-182449-08502	-	7184:03	4819	27000	OVERHAULED
2ND STG IMPELLER	3822341-5	1618244923700	-	00	00	27000	NEW
1ST T-WHEEL ASSY	3842151-3	12-168522-01537					OVERHAULED
DISK PART NO	3842152-1		-	7184:03	4819	27000	
2ND T-WHEEL ASSY	3842155-4	12-168522-01912					OVERHAULED
DISK PART NO	3842156-1		-	7184:03	4819	27000	
3RD T-WHEEL ASSY	3842160-6	12-156101-09303	-	7184:03	4819	27000	OVERHAULED

**APU ACCESSORIES RECORD/NDC**

DESCRIPTION	PART NO.	SERIAL NO.	SERIES	CHG NOS	REMARKS
STARTER CTRL VLV	3283076-5	1578	1	-	REPAIRED
AIR TURB STARTER	3505814-3	1541	1	-	OVERHAULED UNIT TRANSFERRED FROM SINGAPORE AIRLINES LTD APU S/N: P-2290
STARTER MOTOR	2704442-5	1234	2	-	OVERHAULED
FUEL CLUSTER	3879008-1	CUA11725	-	-	VISUAL INSPECTED / TESTED
IGV ACTUATOR	3883499-3	1552	-	-	VISUAL INSPECTED / TESTED
PNEU CLUSTER	3884863-7	P-1525	1	-	REPAIRED
CHECK VALVE	3202854-1	1401	1	-	REPAIRED
SURGE CTRL VALVE	3290814-5	3290814/888	1	-	OVERHAULED
LUBE CLUSTER	4131000-6	1668	2	-	REPAIRED
AIR OIL COOLER	160488-2	1664	2	-	CLEANED & FLUSHED / VISUAL INSPECTED / TESTED
TEMP CTRL VALVE	160536-1	1508	2	-	VISUAL INSPECTED / TESTED
IGNITION UNIT	3876195-9	J17340052	-	-	NEW
IGNITION SYS ASSY	3888275-10	-	-	-	REPAIRED (ALTERNATE OUTGOING S/N:J17340052 )
G/BOX ASSY	3805034-11	P-1401	-	-	MODIFIED / REPAIRED
DRIVEN COMP	3804011-10	P-1398	-	-	OVERHAULED
COMP MODULE	3826980-13	P-1394	-	-	OVERHAULED
TURB MODULE	3844517-7	P-1393	-	-	OVERHAULED
OIL LEVEL SENSOR	3876211-3	-	-	-	VISUAL INSPECTED / TESTED (ALTERNATE OUTGOING S/N: 97424-DT1471)
DMM	304643-2	GE12119	1	-	VISUAL INSPECTED

REMARKS: APU HOURS AND CYCLES ARE BASED AT THE POINT OF ASSEMBLY AND OBTAINED FROM THE DMM.

INSPECTOR SIGNATURE & STAMP:

The stamp contains the text "HONEYWELL QC 16-S".

ENGINE MODEL: 331-500B  
ENGINE SERIAL NUMBER: P-2273  
CUSTOMER: SINGAPORE AIRLINES LTD  
REPAIR ORDER: 000330006248  
MODULE: ENGINE  
PART: 3800550-1

**SERVICE RECORD**

PAGE : 1 of 1

**SERVICE BULLETIN COMPLIANCE**

SERVICE BULLETIN	REV	DESCRIPTION	ACCOMP	WHEN ACCOMP	Recurring
331-49-7870	0	AIRBORNE AUXILIARY POWER - GAS TURBINE E	Complied With	16/OCT/2017	
331-49-8137	0	AIRBORNE AUXILIARY POWER - GAS TURBINE E	Complied With	16/OCT/2017	
331-49-8138	0	AIRBORNE AUXILIARY POWER - GAS TURBINE E	Complied With	16/OCT/2017	
331-49-8141	0	AIRBORNE AUXILIARY POWER - GAS TURBINE E	Complied With	16/OCT/2017	
331-49-8170	0	AIRBORNE AUXILIARY POWER - GAS TURBINE E	Complied With	16/OCT/2017	
331-49-8179	1	AIRBORNE AUXILIARY POWER - GAS TURBINE E	Complied With	16/OCT/2017	
331-49-8180	1	AIRBORNE AUXILIARY POWER - GAS TURBINE E	Complied With	16/OCT/2017	
331-49-8187	0	AIRBORNE AUXILIARY POWER - GAS TURBINE E	Complied With	16 OCT 2017	
49-7997	5	AIRBORNE AUXILIARY POWER - GAS TURBINE E	Complied With	16 OCT 2017	Y

Honeywell Aerospace Singapore Pte Ltd  
REPAIR STATION # FAA-EASA-CAAS-CAAC-JCAB

INSPECTOR SIGNATURE: 

DATE:

17 OCT 2017

DATE	ACCUMULATED ENGINE HOURS HH:DD (HH:MM)		ACCUMULATED ENGINE CYCLES		ENGINE SERVICE RECORD			PAGE : 1 of 1																		
					REMARKS, INSPECTIONS, REPAIRS, AND ADJUSTMENTS																					
16/OCT/2017	TSN 7184.05 (7184:03)	TSO 0.00 (0:00)	CSN 4819	CSO 0	P/N 3800550-1 Model 331-500B	S/N P-2273 Series 62 Customer PO 10453748																				
					<b>DESCRIPTION OF WORK PERFORMED</b> DISASSEMBLED ENGINE TO ACCOMPLISH INSPECTIONS AS INDICATED / TO ACCOMPLISH REPAIR FOR REPORTED REASON: OVERHAUL (MSA). RE-ASSEMBLED ENGINE AND TESTED AS SPECIFIED. ALL WORK PERFORMED IN ACCORDANCE WITH MANUFACTURER'S MAINTENANCE MANUALS. <table border="1"> <thead> <tr> <th>MANUALS</th> <th>REV</th> <th>DATED</th> </tr> </thead> <tbody> <tr> <td>20-00-02/70-00-01</td> <td>20</td> <td>24/FEB/2016</td> </tr> <tr> <td>49-24-79</td> <td>9</td> <td>29/APR/2016</td> </tr> <tr> <td>49-26-55</td> <td>18</td> <td>06/DEC/2016</td> </tr> <tr> <td>49-26-57</td> <td>20</td> <td>27/SEP/2016</td> </tr> <tr> <td>49-42-05</td> <td>2</td> <td>11/NOV/2014</td> </tr> </tbody> </table>				MANUALS	REV	DATED	20-00-02/70-00-01	20	24/FEB/2016	49-24-79	9	29/APR/2016	49-26-55	18	06/DEC/2016	49-26-57	20	27/SEP/2016	49-42-05	2	11/NOV/2014
MANUALS	REV	DATED																								
20-00-02/70-00-01	20	24/FEB/2016																								
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49-26-55	18	06/DEC/2016																								
49-26-57	20	27/SEP/2016																								
49-42-05	2	11/NOV/2014																								
					<b>INSPECTIONS COMPLIED WITH:</b> AS ABOVE																					
					<b>SERVICE BULLETINS COMPLIED WITH:</b> SEE SERVICE BULLETIN LIST <b>PARTS REPAIRED OR REPLACED THIS VISIT:</b> SEE TRACE INPUT PAGE																					
					<b>NDC / LIFE LIMITED PARTS:</b> SEE NDC / LIFE LIMITED PARTS RECORD FOR SERIALIZED COMPONENTS INSTALLED																					
					THIS ENGINE HAS BEEN REPAIRED/INSPECTED IN ACCORDANCE WITH THE APPLICABLE NATIONAL AVIATION ADMINISTRATION REGULATION AND IS APPROVED FOR RETURN TO SERVICE WITH RESPECT TO THE WORK PERFORMED. PERTINENT DETAILS ARE ON FILE AT THIS AGENCY UNDER REPAIR ORDER NUMBER 000330006248																					

Honeywell Aerospace Singapore Pte Ltd  
 REPAIR STATION #  
 FAA-EASA-CAAS-CAAC-JCAB

INSPECTOR SIGNATURE: 

DATE:

17 OCT 2017

Note: APU on release after testcell runs.  
 The TSN/CSN is as follows:

TSN: 7186:02 HRS

CSN: 4825 CYCLES

THIS IS AN EXTRACT OF REPLACEMENT OF FUEL (ETOPS) NOZZLES.  
REFERENCE SIA SI NO: IB7774900013 REV 4 /4 Mar 2010.

A/C REGN:	-
APU S/N:	P-2273
STATION:	-
DATE:	17 OCT 2017

**SIA SI NO: IB7774900013 REPLACEMENT OF FUEL (ETOPS) NOZZLES**

ITEM	DESCRIPTION OF WORK	APPLICABLE SECTION	Date	Stamp/Sign
	<p><u>NOTE:</u></p> <p><u>COMPLIANCE :</u></p> <p>INITIAL : AT APU TSI OF 2000 APU HRS DURING HANGAR CHECK ONLY.</p> <p>REPEAT : EVERY 2000 AFU HRS DURING HANGAR CHECK ONLY.</p> <p><u>NOTE:</u></p> <p>THE AIRFRAME-APU HOUR RATIO IS DEPENDENT ON THE AIRCRAFT SERIES ON WHICH THE APU IS FITTED TO.</p> <p>SQ* - 1 AIRFRAME HOUR = 0.66 APU HOURS      SR* - 1 AIRFRAME HOUR = 0.80 APU HOURS      SV* - 1 AIRFRAME HOUR = 0.52 APU HOURS      SW* - 1 AIRFRAME HOUR = 0.33 APU HOURS      SY* - 1 AIRFRAME HOUR = 0.75 APU HOURS</p> <p><u>TERMINATING ACTION :</u></p> <p>TO BE REVIEWED IN TWO YEARS.</p> <p><u>REFERRENCES :</u></p> <p>HONEYWELL 331-500B APU MSA. CUSTOMISED WORKSCOPE.</p> <p><u>EFFECTIVITY :</u></p> <p>ALL B777 HONEYWELL GTCP331-500 APU.</p> <p><u>DISCUSSION :</u></p> <p>HONEYWELL 331-500B MSA REQUIREMENT.</p>	NA	NA	NA

THIS IS AN EXTRACT OF REPLACEMENT OF FUEL (ETOPS) NOZZLES.  
REFERENCE SIA SI NO: IB7774900013 REV 4 /4 Mar 2010.

1	TURBINE  REPLACE FUEL NOZZLES PN: 3883453-1 (14 NOZZLES PER APU) IN ACCORDANCE WITH AMM TASK 49-13-03 (PG 401) – FUEL NOZZLES REMOVAL/INSTALLATION. SEND FUEL NOZZLES OUTHOUSE FOR REFURBISHMENT.	NA	NA	NA
2	ANNOTATE DETAILS OF INSTALLED COMPONENTS.  (TO COMPLETE ATTACHMENT #1)	Final Assembly	14 OCT 2017	

Certifies that the work specified except as otherwise specified was carried out in accordance with SAR-145 and the Air Navigation Order and in respect to that work the aircraft/aircraft component is considered ready for release to service.

Page Sign/Stamp Off



Date Completed

17 OCT 2017

THIS IS AN EXTRACT OF REPLACEMENT OF FUEL (ETOPS) NOZZLES.  
REFERENCE SIA SI NO: IB7774900013 REV 4/4 Mar 2010.

Attachment #1

**Source Document: IB777490013**  
**Details of installed APU Nozzles**

S/n	Part No	Serial No	Position
1	3882453-1	AAA 07714	1
2	3882453-1	AAA 07721	2
3	3882453-1	AAA10462	3
4	3882453-1	AAA12597	4
5	3882453-1	AAA14310	5
6	3882453-1	AAA20196	6
7	3882453-1	AAA20202	7
8	3882453-1	AAA23364	8
9	3882453-1	AAA26472	9
10	3882453-1	IAUT1533	10
11	3882453-1	IAUT1539	11
12	3882453-1	IBAK0508	12
13	3882453-1	IKA03589	13
14	3882453-1	AAA50783	14

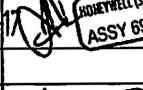
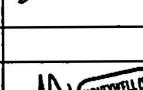
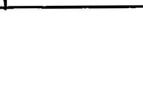
THIS IS AN EXTRACT OF SIA STAGGER CHECK SHEET FORM NO: INS/B777/7025 ISSUE 2 (04/2004)

**SIA STAGGER CHECK SHEETS FOR GTCP331-500B APU**

A/C REGN:	—
APU S/N:	P-2273
STATION:	—
DATE:	17 OCT 2017

ITEM	DESCRIPTION OF WORK	APPLICABLE SECTION	Date	Stamp/Sign
<b>1 - APU POWERPLANT</b>				
1	Visually inspect the APU mounts, fittings and brackets for cracks, wear and damage	Receiving	29/9/17	M HONEYWELL(S) DISY 20
2	Visually examine the internal and external portions of the inlet duct and inlet Plenum seal for condition and security.	Receiving	29/9/17	M HONEYWELL(S) DISY 20
3	Perform an inspection of the APU Plenum drain. a) Examine the drain tube for corrosion.	Receiving	29/9/17	M HONEYWELL(S) DISY 20
	b) Push lockwire through the Plenum drain outlet to ensure it is not clogged.	Receiving	29/9/17	M HONEYWELL(S) DISY 20
4	a) Remove, drain, inspect and install the APU Combustor drain valve. b) Functional check APU combustor drain valve.	Final Assembly	13 OCT 2017	M HONEYWELL(S) ASSY 69
		Accessories	12/10/2017	M HONEYWELL(S) RCC 55
<b>2 - APU ENGINE</b>				
1	Perform borescope inspection of the following:- a) Load Compressor b) First stage Compressor c) Second stage Compressor d) Combustion Chamber e) First Stage Stator Vane Assembly. f) First Stage turbine Section.	Receiving	29/9/17	M HONEYWELL(S) DISY 20
2	Inspect APU inlet Bellmouth V-band Clamp PN 3617128-1 installation. Visually inspect the inlet bellmouth and clamp to observe if they are tilted or loose. If the bellmouth and clamp are not determined to be loose by visual inspection, insert a long screwdriver or similar metal rod (0.25inch/ 6.35 mm max diameter) through the inlet screen and firmly push against the clamp bolts which retain the two clamp halves to determine if the clamp can be shifted by hand pressure. <b>NOTE: DO NOT APPLY FORCE TO THE BELLMOUTH CLAMP BY ANY METHOD OTHER THAN HAND PRESSURE.</b> If the clamp is found to be loose, accomplish Honeywell SB 331-49-7547.	Receiving	29/9/17	M HONEYWELL(S) DISY 20
<b>3 - APU AND GENERATOR LUBRICATION SYSTEM</b>				
1	Remove, check and replace the oil filter element and the generator scavenge oil filter element (at final, verify that the lube filters are replaced for the APU since incoming).	Testing	16 OCT 2017	M HONEYWELL(S) TEST 09
2	Remove and examine the four magnetic chip detectors of the APU oil system for metal particles. Rectify as necessary. Clean and reinstall the magnetic chip collectors.	Testing	16 OCT 2017	M HONEYWELL(S) TEST 09
3	Inspect the APU oil level and service the APU oil reservoir	N/A	N/A	

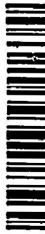
THIS IS AN EXTRACT OF SIA STAGGER CHECK SHEET FORM NO: INS/B777/7025 ISSUE 2 (04/2004)

<b>4 – APU ENGINE FUEL SYSTEM</b>				
1	Remove, check and replace the fuel filter element attached to the Fuel Cluster (at final verify that fuel filter is replaced for the APU since incoming).	Accessories	12 OCT 2017	 HONEYWELL(S) ACC 21
<b>5 – APU IGNITION/ STARTING SYSTEM</b>				
1	Remove and replace both igniter plugs on the APU.	Final Assembly	14 OCT 2017	 HONEYWELL(S) ASSY 69
2	Remove and inspect the Air Turbine Starter magnetic chip collector for metal particles. Rectify as necessary. Clean and reinstall the magnetic chip collector.	Testing	16 OCT 2017	 HONEYWELL(S) TEST 09
3	Inspect electric starter clutch P/N: 3503876-5 and Air turbine starter installation of lockbolts using inspection tool (inspection with clutch installed in APU) P/N: PMAT2660 as per Honeywell SB 331-49-7556.	Final Assembly	14 OCT 2017	 HONEYWELL(S) ASSY 69
<b>6 – APU EXHAUST SYSTEM</b>				
1	Inspect EGT Thermocouple and harness for condition and security of installation.	Final Assembly	14 OCT 2017	 HONEYWELL(S) ASSY 69
<b>7 – APU INDICATING SYSTEM</b>				
1	Inspect the Data Memory Module for condition and security of installation.	Final Assembly	14 OCT 2017	 HONEYWELL(S) ASSY 69
<b>8 – APU WIRE HARNESS AND ELECTRICAL COMPONENTS</b>				
1	Inspect the APU wire harness from the front of the APU and all around the APU where it connects to all electrical components for condition, cleanliness and security.	Final Assembly	14 OCT 2017	 HONEYWELL(S) ASSY 69
2	Inspect all the quick release fastener cable clamp for condition and security.	Final Assembly	14 OCT 2017	 HONEYWELL(S) ASSY 69
3	Inspect all electrical components for condition, cleanliness and security.	Final Assembly	14 OCT 2017	 HONEYWELL(S) ASSY 69
<b>9 – APU COMPONENTS</b>				
Inspect the following APU system components for condition and security:-				
1	<b>APU CONTROL SYSTEM</b>	Final Assembly	14 OCT 2017	 HONEYWELL(S) ASSY 69
	a) Inspect both the speed sensors on the APU for condition and security of installation.	Final Assembly	14 OCT 2017	 HONEYWELL(S) ASSY 69
	b) Inspect the APU inlet temperature sensor for condition and security of installation.	Final Assembly	14 OCT 2017	 HONEYWELL(S) ASSY 69
2	APU Air inlet system components including the air inlet Plenum flange seal.	Final Assembly	14 OCT 2017	 HONEYWELL(S) ASSY 69
3	APU drains and associated tubes.	Final Assembly	14 OCT 2017	 HONEYWELL(S) ASSY 69
4	Accessory drive gearbox and gearbox mounted components.	Final Assembly	14 OCT 2017	 HONEYWELL(S) ASSY 69
5	<b>APU Lubrication system components:</b>			
	a) APU 'LUBE' Cluster	Final Assembly	14 OCT 2017	 HONEYWELL(S) ASSY 69
	b) Components outside the 'LUBE' Cluster:- Filter Bypass valve and indicating switches, oil and Generator scavenging filters, Low oil pressure switch, oil pressure sensor, oil temperature sensors and Thermostatic Bypass valve.	Final Assembly	14 OCT 2017	 HONEYWELL(S) ASSY 69

THIS IS AN EXTRACT OF SIA STAGGER CHECK SHEET FORM NO: INS/B777/7025 ISSUE 2 (04/2004)

<b>9 – APU COMPONENTS-cont'd...</b>				
5	c) Magnetic Chip Collectors:- ATS Magnetic Chip Collector, Generator Scavenge Magnetic chip collector, Turbine Bearing Magnetic chip collector, Mid-bearing Magnetic chip collector and Sump drain Magnetic chip collector.	Final Assembly	14 OCT 2017	 HONEYWELL (S) ASSY 69
	d) AIR/ OIL Cooler.	Final Assembly	14 OCT 2017	 HONEYWELL (S) ASSY 69
	e) APU Oil Heater system components.		14 OCT 2017	 HONEYWELL (S) ASSY 69
6	<b>APU Fuel System Components:</b>			
	a) APU Fuel cluster containing the APU fuel control and fuel system components.	Final Assembly	14 OCT 2017	 HONEYWELL (S) ASSY 69
	b) Fuel manifolds and nozzles	Final Assembly	14 OCT 2017	 HONEYWELL (S) ASSY 69
7	a) APU ignition cluster containing the ignitor plugs, ignition leads and the ignition unit.	Final Assembly	14 OCT 2017	 HONEYWELL (S) ASSY 69
	b) Electric Starter Motor, Electric Starter Clutch, Air Turbine Starter, Air Turbine Starter Clutch and Air Turbine Starter Control Valve (ATSCV)	Final Assembly	14 OCT 2017	 HONEYWELL (S) ASSY 69
8	<b>APU Exhaust System components.</b>			
9	a) APU Pneumatic Cluster containing inlet pressure sensor, Total pressure sensor, Differential Pressure sensor and surge control valve.	Final Assembly	4 OCT 2017	 HONEYWELL (S) ASSY 69
	b) Inspect the APU Delta pressure transducer P/N: 3876219-2 for the following:			
	i) Manufacturing date code or Sept 1997 or later Or	Accessories	12/10/2017	 HONEYWELL (S) ACC 55
	ii) Final test stamp (rectangular in shape, displaying "FT" and number "363" Or	Final Assembly	14 OCT 2017	 HONEYWELL (S) ASSY 69
	iii) Component maintenance manual Test Stamp (circular in shape, displaying R&O FT and a date).  Replace Transducer per B777 49-53-04 if none of the above is found on the transducer.	Accessories	12/10/2017	 HONEYWELL (S) ACC 55
	C) Air Supply System Components including Inlet Guide Vanes (IGV), Inlet Guide Vane Actuator, APU Check Valve, Surge duct, pneumatic ductings and plumbings.	Final Assembly	14 OCT 2017	 HONEYWELL (S) ASSY 69
Certificates that the work specified except as otherwise specified was carried out in accordance with SAR-145 and the Air Navigation Order and in respect to that work the aircraft/aircraft component is considered ready for release to service.				
Sign/Stamp:	Date: 17 OCT 2017			

1. Approving Competent Authority/Country  EASA	2.  <b>AUTHORISED RELEASE CERTIFICATE</b>  <b>EASA FORM 1</b>	3. Form Tracking Number  20170003746661Y02 330054959
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4. Organisation Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619	5. Work Order/Contract/Invoice  10453748  330006248 Page 1 of 1
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6. Item	7. Description	8. Part No	9. Qty	10. Serial No.	11. Status/Work
001	IMPELLER, LOAD COMPRESSOR	3822612-1	1	13-182449-08188	OVERHAULED

12. Remarks  THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH: IRM 49-24-79 Rev 9, APR/29/2016
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HH:DD : (HH:MM)  
 TSN 7184.05 (7184:03)  
 CSN 4819.00  
 TSO 0.00 (0:00)  
 CSO 0.00

13a. Certifies that the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> approved design data and are in condition for safe operation <input type="checkbox"/> non-approved design data specified in block 12	14a <input checked="" type="checkbox"/> Part-145.A.50 Release to Service <input type="checkbox"/> Other regulation 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 Part-145 and in respect to that work the items are considered ready for release to service.
13b. Authorised Signature	13c. Approval/Authorisation Number
13d. Name	13e. Date (dd mmm yyyy)
	14b. Authorised Signature 
	14c. Certificate/Approval Ref. No EASA.145.0076
	14d. Name Chou Nyee Hoong
	14e. Date (dd mmm yyyy) 09 OCT 2017

USER/INSTALLER RESPONSIBILITIES  This certificate does not automatically constitute authority to install the item(s).  Where the user/installer performs work in accordance with regulation of an airworthiness authority different than the airworthiness authority specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts items from the airworthiness authority specified in block 1.  Statements 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.
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1. Approving Civil Aviation Authority/Country: <b>FAA/United States</b>	2. <b>AUTHORIZED RELEASE CERTIFICATE</b> <b>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b>	3. Form Tracking Number: 20170003746660Y03 330054959
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4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619	Repair Station FT4Y192M	5. Work Order/Contract/Invoice Number: 10453748 330006248 Page 1 of 1
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6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status / Work:
001	IMPELLER, LOAD COMPRESSOR	3822612-1	1	13-182449-08188	OVERHAULED

12. Remarks:

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:

IRM 49-24-79 Rev 9, APR/29/2016

HH:DD	(HH:MM)
TSN	7184.05 (7184:03)
CSN	4819.00
TSO	0.00 (0:00)
CSO	0.00

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

13a. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.	14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation 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.:
13d. Name (Typed or Printed):	13e. Date(dd/mmm/yyyy):
	14b. Authorized Signature: 
	14c. Approval/Certificate No.: <b>FT4Y192M</b>
	14d. Name (Typed or Printed): <b>Chou Nyee Hoong</b>
	14e. Date (dd/mmm/yyyy): <b>09/OCT/2017</b>

**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. Statements 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.

1. Country <b>SINGAPORE</b>	2. CIVIL AVIATION AUTHORITY OF SINGAPORE <b>AUTHORIZED RELEASE CERTIFICATE</b> <b>CAAS(AW)95</b>				3. Form Tracking Number: 20170003746657Y06 330054959												
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619				Repair Station AWI/38	5. Work Order/Contract/Invoice Number: 10453748 330006248 Page 1 of 1												
6. Item: 001	7. Description: IMPELLER, LOAD COMPRESSOR	8. Part Number: 3822612-1	9. Eligibility: N/A	10. Quantity: 1	11. Serial / Batch Number: 13-182449-08188												
12. Status / Work: OVERHAULED																	
13. Remarks : THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH: IRM 49-24-79 Rev 9, APR/29/2016																	
<p>HH : DD      (HH : MM)</p> <table> <tr><td>TSN</td><td>7184.05</td><td>(7184:03)</td></tr> <tr><td>CSN</td><td>4819.00</td><td></td></tr> <tr><td>TSO</td><td>0.00</td><td>(0:00)</td></tr> <tr><td>CSO</td><td>0.00</td><td></td></tr> </table>						TSN	7184.05	(7184:03)	CSN	4819.00		TSO	0.00	(0:00)	CSO	0.00	
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CSN	4819.00																
TSO	0.00	(0:00)															
CSO	0.00																
SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED																	
14. NEW PARTS Certificates the items identified above were manufactured in conformity to:			19. USED PARTS <input checked="" type="checkbox"/> SAR-145.50 Release to Service <input type="checkbox"/> Other regulation specified in Block 13. Certificates that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with SAR 145 and the Air Navigation Order and in respect to that work the items are considered ready for release to service.														
15. Authorized Signature:		16. CAAS Approval No.:	20. Authorized Signature: 		21. CAAS Approval No.: AWI/38												
17. Name (Typed or Printed):		18. Date (dd mmm yyyy):	22. Name (Typed or Printed): Chou Nyee Hoong		23. Date (dd mmm yyyy): 09 OCT 2017												
<b>User / Installer Responsibilities</b>																	
1. It is important to understand that the existence of the Certificate alone does not automatically constitute authority to install the part/component/assembly. 2. Where the user/installer works in accordance with the national regulations of an Airworthiness Authority different from the Civil Aviation Authority of Singapore(CAAS), it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the CAAS. 3. Statements 14 and 19 do not constitute installation certification. In all cases, the aircraft maintenance record must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.																	



Commercial

Repair Station # FAA-EASA-CAAS-CAAC-JCAB

Honeywell Aerospace Singapore Pte Ltd  
co Honeywell Aerospace Singapore Pte Ltd  
161 Gul Circle  
SINGAPORE 629619  
Date:09 OCT 2017

**Initial Findings Report**

Repair Order: 2017-005011544482-001 Customer: 303815 SINGAPORE AIRLINES LTD  
330054959

Customer P/O: 10453748

Orig Cust:

Part Number: 3822612-1

Part Desc: IMPELLER, LOAD  
COMPRESSOR

Serial No: 13-182449-08188

Mods:

Series/Issue/Amdts:

Quantity: 1

Aircraft tail#:

Aircraft S/N#:

Received Date:

Model #: APU 331-500/600

Engine S/N#:

Date off:

TIMES/CYCLES

HH.DD (HH:MM)

Alternate S/N:

Time Since New:

7184.05 (7184:03)

Cycles Since New:

4819.00

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

Dented/Nicked

Reason for return code

OVERHAUL

Removal Type

**DETAIL DISASSEMBLY / EVALUATION FINDINGS****SERVICE BULLETINS / AUTHORIZING DOCUMENTS**

Authorizing Technical Document

**Complied With:**

Doc#: IRM 49-24-79 Rev: 9 Date: 04/29/2016

**WORK PERFORMED / COMMENTS TO CUSTOMER****Workscope Performed / Summary of Actions Taken**

UNIT OVERHAULED IAW IRM.

HAND BLENDED BLADE LEADING EDGES, FPI, BALANCED &amp; SHOT-PEENED.

Action Taken Code

Overhaul

Customer Confirmed Removal Reason:

Evaluation Type

**Honeywell****Commercial**

Honeywell Aerospace Singapore Pte Ltd  
co Honeywell Aerospace Singapore Pte Ltd  
161 Gul Circle  
SINGAPORE 629619  
Date:09 OCT 2017

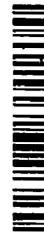
Repair Station # FAA-EASA-CAAS-CAAC-JCAB

**Configuration And Findings Evaluation****Repair Order:** 2017-005011544482-001      **Customer:** 303815 SINGAPORE AIRLINES LTD

330054959

**Customer P/O:** 10453748**Orig Cust:****Part Number:** 3822612-1**Part Desc:** IMPELLER, LOAD  
COMPRESSOR**Serial No:** 13-182449-08188**Mods:****Series/Issue/Amdts:****Quantity 1****Ship Date:****Received Date:****FINAL CONFIGURATION****Part No:** 3822612-1**S/N:** 13-182449-08188**Series/Issues/Amdts:****Mods:****MECHANIC/ANALYST** Beng Chong Koh**DATE:** 03 OCT 2017

1. Approving Competent Authority/Country  EASA		2.  <b>AUTHORISED RELEASE CERTIFICATE</b>  <b>EASA FORM 1</b>			3. Form Tracking Number  20170003746072Y02 330055685														
4. Organisation Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619					5. Work Order/Contract/Invoice  10453748  330006248 Page 1 of 1														
6. Item	7. Description	8. Part No	9. Qty	10. Serial No.	11. Status/Work														
001	IMPELLER, COMPRESSOR FIRST STAGE	3822611-1	1	13-182449-08502	OVERHAULED														
<b>12. Remarks</b> THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH: IRM 49-24-79 Rev 9, APR/29/2016																			
<table> <tr> <td>HH.DD</td> <td>(HH:MM)</td> </tr> <tr> <td>TSN</td> <td>7184.05</td> <td>(7184:03)</td> </tr> <tr> <td>CSN</td> <td>4819.00</td> <td></td> </tr> <tr> <td>TSO</td> <td>0.00</td> <td>(0:00)</td> </tr> <tr> <td>CSO</td> <td>0.00</td> <td></td> </tr> </table>						HH.DD	(HH:MM)	TSN	7184.05	(7184:03)	CSN	4819.00		TSO	0.00	(0:00)	CSO	0.00	
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13a. Certifies that the items identified above were manufactured in conformity to: <input type="checkbox"/> approved design data and are in condition for safe operation <input type="checkbox"/> non-approved design data specified in block 12			14a <input checked="" type="checkbox"/> Part-145.A.50 Release to Service <input type="checkbox"/> Other regulation 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 Part-145 and in respect to that work the items are considered ready for release to service.																
13b. Authorised Signature		13c. Approval/Authorisation Number	14b. Authorised Signature 	14c. Certificate/Approval Ref. No EASA.145.0076															
13d. Name		13e. Date (dd mmm yyyy)	14d. Name Chou Nyee Hoong	14e. Date (dd mmm yyyy) 09 OCT 2017															
<b>USER/INSTALLER RESPONSIBILITIES</b> This certificate does not automatically constitute authority to install the item(s). Where the user/installer performs work in accordance with regulation of an airworthiness authority different than the airworthiness authority specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts items from the airworthiness authority specified in block 1. Statements 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.																			



1. Approving Civil Aviation Authority/Country: <b>FAA/United States</b>	<b>AUTHORIZED RELEASE CERTIFICATE</b> <b>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b>			3. Form Tracking Number: 20170003746076Y03 330055685										
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619		Repair Station FT4Y192M	5. Work Order/Contract/Invoice Number: 10453748 330006248 Page 1 of 1											
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:										
001	IMPELLER, COMPRESSOR FIRST STAGE	3822611-1	1	13-182449-08502										
11. Status / Work: <b>OVERHAULED</b>														
12. Remarks: THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH: IRM 49-24-79 Rev 9, APR/29/2016														
<table> <thead> <tr> <th>HH.DD</th> <th>(HH:MM)</th> </tr> </thead> <tbody> <tr> <td>TSN</td> <td>7184.05 (7184:03)</td> </tr> <tr> <td>CSN</td> <td>4819.00</td> </tr> <tr> <td>TSO</td> <td>0.00 (0:00)</td> </tr> <tr> <td>CSO</td> <td>0.00</td> </tr> </tbody> </table>					HH.DD	(HH:MM)	TSN	7184.05 (7184:03)	CSN	4819.00	TSO	0.00 (0:00)	CSO	0.00
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SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED														
13a. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.		14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 12 Certificates 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.:											
13d. Name (Typed or Printed):	13e. Date(dd/mmm/yyyy):	14d. Name (Typed or Printed): <b>Chou Nyee Hoong</b>	14e. Date (dd/mmm/yyyy): <b>09/OCT/2017</b>											

**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. Statements 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.

1. Country <b>SINGAPORE</b>	2. CIVIL AVIATION AUTHORITY OF SINGAPORE <b>AUTHORIZED RELEASE CERTIFICATE</b> <b>CAAS(AW)95</b>				3. Form Tracking Number: 20170003746071Y06 330055685										
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619				Repair Station AWI/38	5. Work Order/Contract/Invoice Number: 10453748 330006248 Page 1 of 1										
6. Item: 001	7. Description: IMPELLER, COMPRESSOR FIRST STAGE	8. Part Number: 3822611-1	9. Eligibility*: N/A	10. Quantity: 1	11. Serial / Batch Number: 13-182449-08502										
12. Status / Work: OVERHAULED															
13. Remarks : THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH: IRM 49-24-79 Rev 9, APR/29/2016															
<table> <tr> <td>HH.DD</td> <td>(HH:MM)</td> </tr> <tr> <td>TSN</td> <td>7184.05 (7184:03)</td> </tr> <tr> <td>CSN</td> <td>4819.00</td> </tr> <tr> <td>TSO</td> <td>0.00 (0:00)</td> </tr> <tr> <td>CSO</td> <td>0.00</td> </tr> </table>						HH.DD	(HH:MM)	TSN	7184.05 (7184:03)	CSN	4819.00	TSO	0.00 (0:00)	CSO	0.00
HH.DD	(HH:MM)														
TSN	7184.05 (7184:03)														
CSN	4819.00														
TSO	0.00 (0:00)														
CSO	0.00														
SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED															
14. NEW PARTS Certificates the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in condition for safe operation <input type="checkbox"/> Non-approved design data specified in Block 13			19. USED PARTS <input checked="" type="checkbox"/> SAR-145.50 Release to Service <input type="checkbox"/> Other regulation specified in Block 13. Certificates that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with SAR 145 and the Air Navigation Order and in respect to that work the items are considered ready for release to service.												
15. Authorized Signature:		16. CAAS Approval No.:	20. Authorized Signature:  		21. CAAS Approval No.: <b>AWI/38</b>										
17. Name (Typed or Printed):		18. Date (dd mmm yyyy):	22. Name (Typed or Printed): <b>Chou Nyee Hoong</b>		23. Date (dd mmm yyyy): <b>09 OCT 2017</b>										
<b>User / Installer Responsibilities</b>															
1. It is important to understand that the existence of the Certificate alone does not automatically constitute authority to install the part/component/assembly. 2. Where the user/installer works in accordance with the national regulations of an Airworthiness Authority different from the Civil Aviation Authority of Singapore(CAAS), it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the CAAS. 3. Statements 14 and 19 do not constitute installation certification. In all cases, the aircraft maintenance record must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.															



Commercial

Honeywell Aerospace Singapore Pte Ltd  
co Honeywell Aerospace Singapore Pte Ltd  
161 Gul Circle  
SINGAPORE 629619  
Date:08 OCT 2017

Repair Station # FAA-EASA-CAAS-CAAC-JCAB

**Initial Findings Report**

Repair Order: 2017-005011544721-001 Customer: 303815 SINGAPORE AIRLINES LTD  
330055685

Customer P/O: 10453748

Orig Cust:

Part Number: 3822611-1

Part Desc: IMPELLER, COMPRESSOR  
FIRST STAGE

Serial No: 13-182449-08502

Mods:

Series/Issue/Amdts:

Quantity: 1

Aircraft tail#:

Model #: APU 331-500/600

Aircraft S/N#:

Engine S/N:

TIMES/CYCLES

HH.DD (HH:MM)

Date on:

Received Date:

Date off:

Alternate S/N:

Time Since New:

7184.05 (7184:03)

Cycles Since New:

4819.00

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

NICKED BLADE L/EDGES NICKED. BALANCE.

Reason for return code

OVERHAUL

Removal Type

**DETAIL DISASSEMBLY / EVALUATION FINDINGS****SERVICE BULLETINS / AUTHORIZING DOCUMENTS**

Authorizing Technical Document

Complied With:

Doc#: IRM 49-24-79 Rev: 9 Date: 04/29/2016

**WORK PERFORMED / COMMENTS TO CUSTOMER**

Workscope Performed / Summary of Actions Taken

UNIT OVERHAULED IAW IRM.

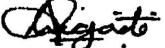
HAND BLENDED BLADE LEADING EDGES, FPI, BALANCED &amp; SHOT-PEENED.

Action Taken Code

Overhaul

Customer Confirmed Removal Reason:

Evaluation Type

1. Approving Civil Aviation Authority/Country: <b>FAA/United States</b>	<b>AUTHORIZED RELEASE CERTIFICATE</b> <b>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b>			3. Form Tracking Number: 20170003733110Y14 9001544725-80005	
4. Organization Name and Address: Honeywell International Inc. 111 S. 34th Street Phoenix, Arizona 85072	Production Approval PT1222NM	Honeywell International Inc. Units 2-4, Chevron, Eaton Road Hemel Hempstead, HP2 7UB UNITED KINGDOM	5. Work Order/Contract/Invoice Number: 4705219014-000010 Page 1 of 1		
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status / Work:
001	IMPELLER, COMPRESSOR, SECOND STAGE	3822341-5	1	1618244923700	NEW
<b>12. Remarks:</b> AIRWORTHINESS APPROVAL. THIS IMPELLER, COMPRESSOR, SECOND STAGE IS A SUBCOMPONENT OF A TSO AUTHORIZATION.					
13a. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.			<input type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 12 <small>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.</small>		
13b. Authorized Signature: 		13c. Approval/Authorization No.: <b>ODA-602216-NM</b>	14b. Authorized Signature:		14c. Approval/Certificate No.:
13d. Name (Typed or Printed): <b>Aggrey Kanyanga</b>		13e. Date (dd/mmm/yyyy): <b>05/OCT/2017</b>	14d. Name (Typed or Printed):		14e. Date(dd/mmm/yyyy):
<b>User / Installer Responsibilities</b>					
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. Statements 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.					

**Honeywell**

## LIFE LIMITED PART LOG

\*SEE SERVICE BULLETIN FOR DEFINITION OF A CYCLE / ENTRIES SHALL COMPLY TO FAR 43.

PX-3107-76C

1. Approving Competent Authority/Country  EASA	2.  <b>AUTHORISED RELEASE CERTIFICATE</b>  <b>EASA FORM 1</b>	3. Form Tracking Number  20170003751892Y02 330067204			
4. Organisation Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619		5. Work Order/Contract/Invoice  10453748  330006248 Page 1 of 1			
6. Item	7. Description	8. Part No	9. Qty	10. Serial No.	11. Status/Work
001	ROTOR ASSY 1STG	3842151-3	1	12-168522-01537	OVERHAULED

**12. Remarks**

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:  
 IRM 49-24-79 Rev 9, APR/29/2016  
 EM 49-26-57 Rev 20, SEP/27/2016

	HH.DD	(HH:MM)
TSN	7184.05	(7184:03)
CSN	4819.00	
TSO	0.00	(0:00)
CSO	0.00	

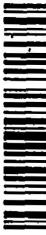
13a. Certifies that the items identified above were manufactured in conformity to:  <input type="checkbox"/> approved design data and are in condition for safe operation <input type="checkbox"/> non-approved design data specified in block 12	14a <input checked="" type="checkbox"/> Part-145.A.50 Release to Service <input type="checkbox"/> Other regulation 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 Part-145 and in respect to that work the items are considered ready for release to service.		
13b. Authorised Signature	13c. Approval/Authorisation Number	14b. Authorised Signature	14c. Certificate/Approval Ref. No  EASA.145.0076
13d. Name	13e. Date (dd mmm yyyy)	14d. Name  Chou Nyee Hoong	14e. Date (dd mmm yyyy)  10 OCT 2017

**USER/INSTALLER RESPONSIBILITIES**

This certificate does not automatically constitute authority to install the item(s).

Where the user/installer performs work in accordance with regulation of an airworthiness authority different than the airworthiness authority specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts items from the airworthiness authority specified in block 1.

Statements 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.



1. Approving Civil Aviation  
Authority/Country:  
**FAA/United States**

2. **AUTHORIZED RELEASE CERTIFICATE**  
**FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**

3. Form Tracking Number:  
20170003751891Y03  
330067204

4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd  
(Gul Circle)  
161 Gul Circle  
Singapore 629619

Repair Station  
FT4Y192M

5. Work Order/Contract/Invoice Number:  
10453748  
330006248  
Page 1 of 1

6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status / Work:
001	ROTOR ASSY 1STG	3842151-3	1	12-168522-01537	OVERHAULED

12. Remarks:

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:

IRM 49-24-79 Rev 9, APR/29/2016

EM 49-26-57 Rev 20, SEP/27/2016

HH.DD (HH:MM)  
TSN 7184.05 (7184:03)  
CSN 4819.00  
TSO 0.00 (0:00)  
CSO 0.00

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

13a. Certifies the items identified above were manufactured in conformity to:  
 Approved design data and are in a condition for safe operation.  
 Non-approved design data specified in Block 12.

14a.  14 CFR 43.9 Return to Service  Other regulation 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.:

  
  
15

FT4Y192M

13d. Name (Typed or Printed):

13e. Date(dd/mmm/yyyy):

14d. Name (Typed or Printed):

14e. Date (dd/mmm/yyyy):

Chou Nyee Hoong

10/OCT/2017

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. Statements 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.

1. Country <b>SINGAPORE</b>	2. CIVIL AVIATION AUTHORITY OF SINGAPORE <b>AUTHORIZED RELEASE CERTIFICATE</b> <b>CAAS(AW)95</b>				3. Form Tracking Number: 20170003751888Y06 330067204												
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619		Repair Station AWI/38	5. Work Order/Contract/Invoice Number: 10453748 330006248 Page 1 of 1														
6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial / Batch Number:												
001	ROTOR ASSY 1STG	3842151-3	N/A	1	12-168522-01537												
12. Status / Work: <b>OVERHAULED</b>																	
13. Remarks : THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH: IRM 49-24-79 Rev 9, APR/29/2016 EM 49-26-57 Rev 20, SEP/27/2016																	
<p>HH.DD (HH:MM)</p> <table> <tr><td>TSN</td><td>7184.05</td><td>(7184:03)</td></tr> <tr><td>CSN</td><td>4819.00</td><td></td></tr> <tr><td>TSO</td><td>0.00</td><td>(0:00)</td></tr> <tr><td>CSO</td><td>0.00</td><td></td></tr> </table>						TSN	7184.05	(7184:03)	CSN	4819.00		TSO	0.00	(0:00)	CSO	0.00	
TSN	7184.05	(7184:03)															
CSN	4819.00																
TSO	0.00	(0:00)															
CSO	0.00																
SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED																	
14. NEW PARTS Certificates the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in condition for safe operation <input type="checkbox"/> Non-approved design data specified in Block 13			19. USED PARTS <input checked="" type="checkbox"/> SAR-145.50 Release to Service <input type="checkbox"/> Other regulation specified in Block 13. Certificates that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with SAR 145 and the Air Navigation Order and in respect to that work the items are considered ready for release to service.														
15. Authorized Signature:		16. CAAS Approval No.:	20. Authorized Signature:	21. CAAS Approval No.: <b>AWI/38</b>													
17. Name (Typed or Printed):		18. Date (dd mmm yyyy):	22. Name (Typed or Printed): <b>Chou Nyee Hoong</b>	23. Date (dd mmm yyyy): <b>10 OCT 2017</b>													
<b>User / Installer Responsibilities</b>																	
1. It is important to understand that the existence of the Certificate alone does not automatically constitute authority to install the part/component/assembly. 2. Where the user/installer works in accordance with the national regulations of an Airworthiness Authority different from the Civil Aviation Authority of Singapore(CAAS), it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the CAAS. 3. Statements 14 and 19 do not constitute installation certification. In all cases, the aircraft maintenance record must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.																	



Commercial

Honeywell Aerospace Singapore Pte Ltd  
co Honeywell Aerospace Singapore Pte Ltd  
161 Gul Circle  
SINGAPORE 629619  
Date:09 OCT 2017

Repair Station # FAA-EASA-CAAS-CAAC-JCAB

**Initial Findings Report**

Repair Order: 2017-005011549144-001  
330067204

Customer P/O: 10453748

Part Number: 3842151-3

Orig Cust:  
Part Desc: ROTOR ASSY 1STG

Serial No: 12-168522-01537

Mods:

Series/Issue/Amdts:

Quantity: 1

Aircraft tail#:

Model #: APU 331-500/600

TIMES/CYCLES

Aircraft S/N#:

Engine S/N:

HH:DD (HH:MM)

Received Date:

Date off:

Alternate S/N:

Time Since New:

7184.05 (7184.03)

Cycles Since New:

4819.00

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**

Corrosion/Corroded

**Reason for return code**

OVERHAUL

**Removal Type****DETAIL DISASSEMBLY / EVALUATION FINDINGS****SERVICE BULLETINS / AUTHORIZING DOCUMENTS**

Authorizing Technical Document

**Complied With:**

Doc#: IRM 49-24-79 Rev: 9 Date: 04/29/2016

Doc#: EM 49-26-57 Rev: 20 Date: 09/27/2016

**WORK PERFORMED / COMMENTS TO CUSTOMER****Workscope Performed / Summary of Actions Taken**

UNIT OVERHAULED IAW IRM &amp; EM.

ALL QTY 32 EACH BLADE NEW.

INSTALLED ROTOR BLADES ON DISK, INSTALLED PLATFORM SEALS ON ROTOR BLADES, PUT SEAL RING ON SEAL PLATE, AND INSTALLED SEAL PLATE ON THE AFT SIDE OF DISK &amp; BALANCED.

**Action Taken Code**

Overhaul

**Customer Confirmed Removal Reason:****Evaluation Type**

**Honeywell**

Commercial

Repair Station # FAA-EASA-CAAS-CAAC-JCAB

Honeywell Aerospace Singapore Pte Ltd  
co Honeywell Aerospace Singapore Pte Ltd  
161 Gul Circle  
SINGAPORE 629619  
Date:09 OCT 2017

**Configuration And Findings Evaluation**

Repair Order: 2017-005011549144-001 Customer: 303815 SINGAPORE AIRLINES LTD  
330067204

Customer P/O: 10453748

Orig Cust:

Part Number: 3842151-3

Part Desc: ROTOR ASSY 1STG

Serial No: 12-168522-01537

Mods:

Series/Issue/Amdts:

Quantity 1

Ship Date:

Received Date:

**FINAL CONFIGURATION**

Part No: 3842151-3



S/N: 12-168522-01537



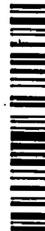
Series/Issues/Amdts:

Mods:

MECHANIC/ANALYST Chin Cheng See

DATE: 03 OCT 2017

1. Approving Competent Authority/Country  EASA		2. <b>AUTHORISED RELEASE CERTIFICATE</b>  <b>EASA FORM 1</b>			3. Form Tracking Number  20170003753547Y02 330066785
4. Organisation Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619					5. Work Order/Contract/Invoice  10453748  330006248 Page 1 of 1
6. Item	7. Description	8. Part No	9. Qty	10. Serial No.	11. Status/Work
001	ROTOR ASSY TURB - 2STG	3842155-4	1	12-168522-01912	OVERHAULED
<b>12. Remarks</b> THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH: IRM 49-24-79 Rev 9, APR/29/2016 EM 49-26-57 Rev 20, SEP/27/2016					
HH.DD (HH:MM) TSN 7184.05 (7184:03) CSN 4819.00 TSO 0.00 (0:00) CSO 0.00					
13a. Certifies that the items identified above were manufactured in conformity to:			14a <input checked="" type="checkbox"/> Part-145.A.50 Release to Service <input type="checkbox"/> Other regulation 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 Part-145 and in respect to that work the items are considered ready for release to service.		
13b. Authorised Signature		13c. Approval/Authorisation Number	14b. Authorised Signature  		14c. Certificate/Approval Ref. No  EASA.145.0076
13d. Name		13e. Date (dd mmm yyyy)	14d. Name  Ramadoss Ramesh		14e. Date (dd mmm yyyy)  10 OCT 2017
<b>USER/INSTALLER RESPONSIBILITIES</b> This certificate does not automatically constitute authority to install the item(s). Where the user/installer performs work in accordance with regulation of an airworthiness authority different than the airworthiness authority specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts items from the airworthiness authority specified in block 1. Statements 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.					



1. Approving Civil Aviation Authority/Country: <b>FAA/United States</b>	<b>AUTHORIZED RELEASE CERTIFICATE</b> <b>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b>			3. Form Tracking Number: 20170003753549Y03 330066785
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619		Repair Station FT4Y192M	5. Work Order/Contract/Invoice Number: 10453748 330006248 Page 1 of 1	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:
001	ROTOR ASSY TURB - 2STG	3842155-4	1	12-168522-01912
11. Status / Work: <b>OVERHAULED</b>				

**12. Remarks:**

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:

IRM 49-24-79 Rev 9, APR/29/2016

EM 49-26-57 Rev 20, SEP/27/2016

	HH.DD	(HH:MM)
TSN	7184.05	(7184:03)
CSN	4819.00	
TSO	0.00	(0:00)
CSO	0.00	

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

13a. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.	14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation 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.:
13d. Name (Typed or Printed):	13e. Date(dd/mmm/yyyy):
14d. Name (Typed or Printed): <b>Ramadoss Ramesh</b>	14e. Date (dd/mmm/yyyy): <b>10/OCT/2017</b>

**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. Statements 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.

1. Country <b>SINGAPORE</b>	2. <b>CIVIL AVIATION AUTHORITY OF SINGAPORE AUTHORIZED RELEASE CERTIFICATE CAAS(AW)95</b>	3. Form Tracking Number: 20170003753551Y06 330066785
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4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619	Repair Station AWI/38	5. Work Order/Contract/Invoice Number: 10453748 330006248 Page 1 of 1
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6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial / Batch Number:	12. Status / Work:
001	ROTOR ASSY TURB - 2STG	3842155-4	N/A	1	12-168522-01912	OVERHAULED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:

IRM 49-24-79 Rev 9, APR/29/2016

EM 49-26-57 Rev 20, SEP/27/2016

HH.DD	(HH:MM)
TSN	7184.05 (7184:03)
CSN	4819.00
TSO	0.00 (0:00)
CSO	0.00

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

**14. NEW PARTS**

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

15. Authorized Signature:

16. CAAS Approval No.:

17. Name (Typed or Printed):

18. Date (dd mmm yyyy):

**19. USED PARTS**

SAR-145.50 Release to Service  Other regulation specified in Block 13.

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with SAR 145 and the Air Navigation Order and in respect to that work the items are considered ready for release to service.

20. Authorized Signature:




21. CAAS Approval No.:

AWI/38

22. Name (Typed or Printed):

Ramadoss Ramesh

23. Date (dd mmm yyyy):

10 OCT 2017

**User / Installer Responsibilities**

1. It is important to understand that the existence of the Certificate alone does not automatically constitute authority to install the part/component/assembly.
2. Where the user/installer works in accordance with the national regulations of an Airworthiness Authority different from the Civil Aviation Authority of Singapore(CAAS), it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the CAAS.
3. Statements 14 and 19 do not constitute installation certification. In all cases, the aircraft maintenance record must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.



Commercial

Repair Station # FAA-EASA-CAAS-CAAC-JCAB

Honeywell Aerospace Singapore Pte Ltd  
co Honeywell Aerospace Singapore Pte Ltd  
161 Gul Circle  
SINGAPORE 629619  
Date:10 OCT 2017

**Initial Findings Report**

Repair Order: 2017-005011549141-001  
330066785

Customer P/O: 10453748

Part Number: 3842155-4

Customer: 303815 SINGAPORE AIRLINES LTD

Orig Cust:

Part Desc: ROTOR ASSY TURB - 2STG

Serial No: 12-168522-01912

Mods:

Series/Issue/Amdts:

Quantity: 1

Aircraft tail#:

Model #: APU 331-500/600

Aircraft S/N#:

Engine S/N:

TIMES/CYCLES

HH.DD (HH:MM)

Time Since New:

7184.05 (7184:03)

Received Date:

Date off:

Alternate S/N:

Time Since Overhaul:

Cycles Since New:

4819.00

Time Since Repair:

Cycles Since Overhaul:

Cycles Since Repair:

**CUSTOMER REASON FOR RETURN**

Overhaul

**GENERAL CONDITION AS RECEIVED (HIDDEN DAMAGE)****Condition Received Text**

Eroded

Rubbed/Abraded

**Reason for return code**

OVERHAUL

**Removal Type****DETAIL DISASSEMBLY / EVALUATION FINDINGS****SERVICE BULLETINS / AUTHORIZING DOCUMENTS****Authorizing Technical Document****Complied With:**

Doc#: IRM 49-24-79 Rev: 9 Date: 29.04.2016

Doc#: EM 49-26-57 Rev: 20 Date: 27.09.2016

**WORK PERFORMED / COMMENTS TO CUSTOMER****Workscope Performed / Summary of Actions Taken**

UNIT OVERHAULED IAW IRM.

HAND FINISH, ASSEMBLE, BALANCE & INSPECTION. FPI PERFORMED ON DISK AT INCOMING NDT.  
INSPECTION**Action Taken Code**

Overhaul

**Customer Confirmed Removal Reason:****Evaluation Type**

**Honeywell****Commercial**

Honeywell Aerospace Singapore Pte Ltd  
co Honeywell Aerospace Singapore Pte Ltd  
161 Gul Circle  
SINGAPORE 629619  
Date:10 OCT 2017

**Repair Station # FAA-EASA-CAAS-CAAC-JCAB****Configuration And Findings Evaluation**

**Repair Order:** 2017-005011549141-001      **Customer:** 303815 SINGAPORE AIRLINES LTD  
330066785

**Customer P/O:** 10453748

**Orig Cust:**

**Part Number:** 3842155-4

**Part Desc:** ROTOR ASSY TURB - 2STG

**Serial No:** 12-168522-01912

**Mods:**

**Series/Issue/Amdts:**

**Quantity** 1

**Ship Date:**

**Received Date:**

**FINAL CONFIGURATION**

**Part No:** 3842155-4



**S/N:** 12-168522-01912



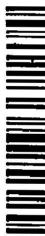
**Series/Issues/Amdts:**

**Mods:**

**MECHANIC/ANALYST** Chin Cheng See

**DATE:** 03 OCT 2017

1. Approving Competent Authority/Country  EASA	2.  <b>AUTHORISED RELEASE CERTIFICATE</b>  <b>EASA FORM 1</b>	3. Form Tracking Number  20170003746522Y02 330066784																	
4. Organisation Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619		5. Work Order/Contract/Invoice  10453748  330006248 Page 1 of 1																	
6. Item 001	7. Description TURBINE ROTOR ASSY 3RD STAGE	8. Part No 3842160-6	9. Qty 1	10. Serial No. 12-156101-09303	11. Status/Work OVERHAULED														
<b>12. Remarks</b> THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH: IRM 49-24-79 Rev 9, APR/29/2016																			
<table> <tr> <td>HH.DD</td> <td>(HH:MM)</td> </tr> <tr> <td>TSN</td> <td>7184.05</td> <td>(7184:03)</td> </tr> <tr> <td>CSN</td> <td>4819.00</td> <td></td> </tr> <tr> <td>TSO</td> <td>0.00</td> <td>(0:00)</td> </tr> <tr> <td>CSO</td> <td>0.00</td> <td></td> </tr> </table>						HH.DD	(HH:MM)	TSN	7184.05	(7184:03)	CSN	4819.00		TSO	0.00	(0:00)	CSO	0.00	
HH.DD	(HH:MM)																		
TSN	7184.05	(7184:03)																	
CSN	4819.00																		
TSO	0.00	(0:00)																	
CSO	0.00																		
13a. Certifies that the items identified above were manufactured in conformity to: <input type="checkbox"/> approved design data and are in condition for safe operation <input type="checkbox"/> non-approved design data specified in block 12			14a <input checked="" type="checkbox"/> Part-145.A.50 Release to Service <input type="checkbox"/> Other regulation 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 Part-145 and in respect to that work the items are considered ready for release to service.																
13b. Authorised Signature	13c. Approval/Authorisation Number		14b. Authorised Signature 	14c. Certificate/Approval Ref. No EASA.145.0076															
13d. Name	13e. Date (dd mmm yyyy)		14d. Name Chou Nyee Hoong	14e. Date (dd mmm yyyy) 09 OCT 2017															
<b>USER/INSTALLER RESPONSIBILITIES</b> This certificate does not automatically constitute authority to install the item(s). Where the user/installer performs work in accordance with regulation of an airworthiness authority different than the airworthiness authority specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts items from the airworthiness authority specified in block 1. Statements 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.																			



1. Approving Civil Aviation Authority/Country: <b>FAA/United States</b>	2. <b>AUTHORIZED RELEASE CERTIFICATE</b> <b>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b>	3. Form Tracking Number: 20170003746521Y03 330066784
--	--	--



4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619	Repair Station FT4Y192M	5. Work Order/Contract/Invoice Number: 10453748 330006248 Page 1 of 1
---	----------------------------	--

6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status / Work:
001	TURBINE ROTOR ASSY 3RD STAGE	3842160-6	1	12-156101-09303	OVERHAULED

12. Remarks:

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:  
IRM 49-24-79 Rev 9, APR/29/2016

HH:DD	(HH:MM)
TSN	7184.05 (7184:03)
CSN	4819.00
TSO	0.00 (0:00)
CSO	0.00

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

13a. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.	14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 12 Certificates 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.:
13d. Name (Typed or Printed):	13e. Date(dd/mmm/yyyy):
Chou Nyee Hoong	14b. Authorized Signature:  HONEYWELL QC 15
	14c. Approval/Certificate No.: FT4Y192M
	14d. Name (Typed or Printed): Chou Nyee Hoong
	14e. Date (dd/mmm/yyyy): 09/OCT/2017

**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. Statements 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.

1. Country <b>SINGAPORE</b>	2. CIVIL AVIATION AUTHORITY OF SINGAPORE <b>AUTHORIZED RELEASE CERTIFICATE</b> <b>CAAS(AW)95</b>					3. Form Tracking Number: 20170003746520Y06 330066784
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619			Repair Station AWI/38			5. Work Order/Contract/Invoice Number: 10453748 330006248 Page 1 of 1
6. Item: 001	7. Description: TURBINE ROTOR ASSY 3RD STAGE	8. Part Number: 3842160-6	9. Eligibility: N/A	10. Quantity: 1	11. Serial / Batch Number: 12-156101-09303	12. Status / Work: OVERHAULED
13. Remarks : THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH: IRM 49-24-79 Rev 9, APR/29/2016						
<p>HH.DD      (HH:MM)</p> <p>TSN      7184.05      (7184:03)</p> <p>CSN      4819.00</p> <p>TSO      0.00      (0:00)</p> <p>CSO      0.00</p>						
SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED						
14. NEW PARTS Certificates the items identified above were manufactured in conformity to:			19. USED PARTS <input checked="" type="checkbox"/> SAR-145.50 Release to Service <input type="checkbox"/> Other regulation specified in Block 13. Certificates that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with SAR 145 and the Air Navigation Order and in respect to that work the items are considered ready for release to service.			
15. Authorized Signature:		16. CAAS Approval No.:	20. Authorized Signature:		21. CAAS Approval No.: AWI/38	
17. Name (Typed or Printed):		18. Date (dd mmm yyyy):	22. Name (Typed or Printed): Chou Nyee Hoong		23. Date (dd mmm yyyy): 09 OCT 2017	
<b>User / Installer Responsibilities</b>						
<p>1. It is important to understand that the existence of the Certificate alone does not automatically constitute authority to install the part/component/assembly.</p> <p>2. Where the user/installer works in accordance with the national regulations of an Airworthiness Authority different from the Civil Aviation Authority of Singapore(CAAS), it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the CAAS.</p> <p>3. Statements 14 and 19 do not constitute installation certification. In all cases, the aircraft maintenance record must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.</p>						



Commercial

Honeywell Aerospace Singapore Pte Ltd  
co Honeywell Aerospace Singapore Pte Ltd  
161 Gul Circle  
SINGAPORE 629619  
Date:09 OCT 2017

Repair Station # FAA-EASA-CAAS-CAAC-JCAB

**Initial Findings Report**

Repair Order: 2017-005011549140-001  
330066784

Customer P/O: 10453748

Part Number: 3842160-6

Customer: 303815 SINGAPORE AIRLINES LTD  
Orig Cust:  
Part Desc: TURBINE ROTOR ASSY 3RD STAGE

Serial No: 12-156101-09303

Mods:

Series/Issue/Amdts:

Quantity: 1

Aircraft tail#:

Model #: APU 331-500/600

Aircraft S/N#:

Engine S/N:

TIMES/CYCLES

HH.DD (HH:MM)

Time Since New:

7184.05 (7184:03)

Received Date:

Date off:

Alternate S/N:

Time Since Overhaul:

Cycles Since New:

4819.00

Time Since Repair:

Cycles Since Overhaul:

Cycles Since Repair:

**CUSTOMER REASON FOR RETURN**

Overhaul

**GENERAL CONDITION AS RECEIVED (HIDDEN DAMAGE)**

Condition Received Text

OVERHAUL

Reason for return code

Removal Type

**DETAIL DISASSEMBLY / EVALUATION FINDINGS****SERVICE BULLETINS / AUTHORIZING DOCUMENTS**

Authorizing Technical Document

Complied With:

Doc#: IRM 49-24-79 Rev: 9 Date: 04/29/2016

**WORK PERFORMED / COMMENTS TO CUSTOMER****Workscope Performed / Summary of Actions Taken**

UNIT OVERHAULED IAW IRM.

BALANCED.

Action Taken Code

Overhaul

Customer Confirmed Removal Reason:

Evaluation Type



Commercial

Repair Station # FAA-EASA-CAAS-CAAC-JCAB

Honeywell Aerospace Singapore Pte Ltd  
co Honeywell Aerospace Singapore Pte Ltd  
161 Gul Circle  
SINGAPORE 629619  
Date:09 OCT 2017

**Configuration And Findings Evaluation**

**Repair Order:** 2017-005011549140-001      **Customer:** 303815 SINGAPORE AIRLINES LTD  
330066784

**Customer P/O:** 10453748

**Orig Cust:**

**Part Number:** 3842160-6      **Part Desc:** TURBINE ROTOR ASSY 3RD STAGE      **Serial No:** 12-156101-09303

**Mods:**

**Series/Issue/Amdts:**

**Quantity** 1

**Ship Date:**

**Received Date:**

**FINAL CONFIGURATION**

**Part No:** 3842160-6



**S/N:** 12-156101-09303



**Series/Issues/Amdts:**

**Mods:**

**MECHANIC/ANALYST** Chin Cheng See

**DATE:** 03 OCT 2017

1. Approving Civil Aviation Authority/Country: <b>FAA/United States</b>	2. <b>AUTHORIZED RELEASE CERTIFICATE</b> <b>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b>			3. Form Tracking Number: 20170003655568Y14 9001503174-80002
4. Organization Name and Address:	Honeywell International Inc. 111 S. 34th Street Phoenix, Arizona 85072	Production Approval PT1222NM	Honeywell International Inc. Units 2-4, Chevron, Eaton Road Hemel Hempstead, HP2 7UB UNITED KINGDOM	5. Work Order/Contract/Invoice Number: 4705188555-000010 Page 1 of 1
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:
001	EXCITER	3876195-9	5	J17340009 See Continuation
11. Status / Work: NEW				

**12. Remarks:**

AIRWORTHINESS APPROVAL.

THIS EXCITER IS A SUBCOMPONENT OF A TSO AUTHORIZATION.

Block 10 Serial Number(s): (Continued):

J17340052, J17340006, J17340008, J17340004.

13a. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.	14a. <input type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 12 <small>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.</small>		
13b. Authorized Signature:  <i>S. Foulger</i>	13c. Approval/Authorization No.:  ODA-602216-NM	14b. Authorized Signature:	14c. Approval/Certificate No.:
13d. Name (Typed or Printed): Stephen Foulger	13e. Date (dd/mmm/yyyy): 20/SEP/2017	14d. Name (Typed or Printed):	14e. Date(dd/mm/yy):

**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. Statements 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.



# net-inspect™ Acceptance Test Data Sheet

Company: UNISON  
INDUSTRIES -  
JACKSONVILLE

[Back to Acceptance test report](#)

Approved

<b>Part Number:</b> 9048700-9(E) 3876195-9		<b>Part Name:</b> Exciter (Code 162436)		<b>Serial Number:</b> Temp. S/N 1		
<b>Procedure Number:</b> JS0452		<b>Issue Number:</b> M		<b>Batch Number:</b> 6928994-1		
<b>Paragraph Number</b>	<b>Test Description</b>	<b>Requirement</b>	<b>Result</b>	<b>Test Date</b>	<b>Tester I.D.</b>	<b>Concession Number</b>
1	Visual/Dimensional Inspection	Visual/Dimensional Inspection (Per Drawing) [ Visual ]	Pass	8/23/2017	Cesar Lee Saca	
2	Burn-In	Burn-In (Per Para 3.4) [ visual ]	Pass	8/23/2017	Cesar Lee Saca	
3	Environmental Seal Test	Environmental Seal Test (554 23) [ visual ]	Pass	8/23/2017	Cesar Lee Saca	
4	Reverse Polarity	Reverse Polarity (Per Para 3.7.1) [ visual ]	Pass	8/23/2017	Cesar Lee Saca	
5	Spark Rate	Spark Rate 14VDC (1.0-3.0 S/s) A [ 1 Sparks/Sec (+2, -0) ]	1.0	8/23/2017	Cesar Lee Saca	
6	Spark Rate	Spark Rate 14VDC (1.0-3.0 S/s) B [ 1 Sparks/Sec (+2, -0) ]	1.0	8/23/2017	Cesar Lee Saca	
7	Spark Rate	Spark Rate 32VDC (1.0-3.0 S/s) A [ 1 Sparks/Sec (+2, -0) ]	1.0	8/23/2017	Cesar Lee Saca	
8	Spark Rate	Spark Rate 32VDC (1.0-3.0 S/s) B [ 1 Sparks/Sec (+2, -0) ]	1.0	8/23/2017	Cesar Lee Saca	
9	Output Voltage	Output Voltage 14VDC (2500 V min) A [ 3000 Volts (+2000, -500) ]	2680	8/23/2017	Cesar Lee Saca	
10	Output Voltage	Output Voltage 14VDC (2500 V min) B [ 3000 Volts (+2000, -500) ]	2640	8/23/2017	Cesar Lee Saca	
11	Case Ground Housing	Case Ground Housing (25 m Ohm Max) [ 10 Ohms (Milli) (+15, -10) ]	12.8	8/23/2017	Cesar Lee Saca	
12	Diagnostic Indication	Diagnostic Indication Tests (Per Para 3.8) [ visual ]	Pass	8/23/2017	Cesar Lee Saca	

Final / Shippable Serial Number : J17340052

[Print Acceptance Test Data Sheet](#)



Repair Station # ZX4R716M

Commercial

Anniston - Cliff Garrett Dr  
Honeywell International Inc  
1 Cliff Garrett Drive  
Anniston AL 36201  
Date:20 SEP 2017

## Configuration And Findings Evaluation

Repair Order: 2017-329787695-001  
329829652

Customer P/O: 7848457

Customer: PLANT4146 Honeywell International SARL c/oHoneywell Aerospace

Part Number: 3505814-3

Orig Cust:  
Part Desc: STARTER AIR TURBINE      Serial No: 1541

Mods:

Series/Issue/Amdts: 1

Quantity: 1

Aircraft tail#: 9V-SWV

Aircraft S/N#:

Date on:

Received Date: 12 SEP 2017

Model #: APU 331-500/600

Engine S/N:

Date off:

TIMES/CYCLES

HH.DD (HH:MM)

Alternate S/N:

Time Since New:

Cycles Since New:

Time Since Overhaul:

Cycles Since Overhaul:

Time Since Repair:

Cycles Since Repair:

## CUSTOMER REASON FOR RETURN

OVERHAUL (MSA)

## GENERAL CONDITION AS RECEIVED (HIDDEN DAMAGE)

Condition Received Text

Dirty/Oily

Reason for return code

OVERHAUL

Removal Type

Unscheduled

## DETAIL DISASSEMBLY / EVALUATION FINDINGS

Failure Description:

Unit returned from overhaul.

Findings:

Related Area:

Non-conformance: NO CODE AVAILABLE, SEE COMMENTS:

Recurrent Failure:

Failed Part:

Part Name:

Condition:

Primary Failure:

## SERVICE BULLETINS / AUTHORIZING DOCUMENTS

## Authorizing Technical Document

## Complied With:

Doc#: ID TAG REPL PER MOD/COND

Doc#: CMM 49-42-01 Rev: 3 Date: 08/06/2011

## WORK PERFORMED / COMMENTS TO CUSTOMER

Workscope Performed / Summary of Actions Taken

Overhaul: Bearings and seal are 100%, wheel requires NDT and balance, thrust washers spacer and cages are worn, mag plug has thread damage. "Post incident inspection performed by Product Support Engineering on this unit with no evidence of FOD or water intrusion damage noted"



Commercial

Repair Station # ZX4R716M

Anniston - Cliff Garrett Dr  
Honeywell International Inc  
1 Cliff Garrett Drive  
Anniston AL 36201  
Date:20 SEP 2017

**Configuration And Findings Evaluation**

**Repair Order:** 2017-329787695-001      **Customer:** PLANT4146 Honeywell International SRL c/o Honeywell Aerospace  
329829652

**Customer P/O:** 7848457

**Orig Cust:**

**Part Number:** 3505814-3

**Part Desc:** STARTER AIR TURBINE

**Serial No:** 1541

**Mods:**

**Series/Issue/Amdts:** 1

**Quantity** 1

**Ship Date:**

**Received Date:** 12 SEP 2017

**Action Taken Code:** Overhaul

**Customer Confirmed Removal Reason:** Yes

**Evaluation Type:** Evaluated - Minor Fault Found

**FINAL CONFIGURATION**

**Part No:** 3505814-3



**S/N:** 1541



**Series/Issues/Amdts:** 1



**Mods:**

**MECHANIC/ANALYST** Tommy Pinson

**DATE:** 16 SEP 2017

1. Approving Civil Aviation Authority/Country: <b>FAA/United States</b>	2. <b>AUTHORIZED RELEASE CERTIFICATE</b> <b>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b>	3. Form Tracking Number: 20170003762648Y15 329829652			
4. Organization Name and Address: Honeywell International Inc 1 Cliff Garrett Drive Anniston AL 36201	Repair Station ZX4R716M	5. Work Order/Contract/Invoice Number: 7848457 329787695 Page 1 of 1			
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status / Work:
001	STARTER AIR TURBINE	3505814-3	1	1541	OVERHAULED

**12. Remarks:**

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:

CMM 49-42-01 Rev 3, AUG/06/2011

	HH.DD	(HH:MM)
CSO	0.00	
CSR	0.00	
TSO	0.00	(0:00)
TSR	0.00	(0:00)

**SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED**

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 NO. EASA 145.4127

13a. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.	14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input checked="" type="checkbox"/> Other regulation 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.:
13d. Name (Typed or Printed):	13e. Date(dd/mmm/yyyy):
14b. Authorized Signature:	14c. Approval/Certificate No.: <i>Renee Blair</i> ZX4R716M
14d. Name (Typed or Printed): <i>Renee Blair</i>	14e. Date(dd/mmm/yyyy): 11/OCT/2017

**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. Statements 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.

1. 国家 Country 中国 China	2. 中国民用航空总局 CAAC <input type="checkbox"/> 符合性 Conformity <input checked="" type="checkbox"/> 适航性 Airworthiness	3. 证书编号 Certificate Ref. No. 20170003762647Y05 329829652
---------------------------	--	--

**批准放行证书/适航批准标签**  
**AUTHORIZED RELEASE CERTIFICATE/AIRWORTHINESS APPROVAL TAG**

4. 单位 Organization Honeywell International Inc 1 Cliff Garrett Drive Anniston AL 36201	5. 工作单/合同单/货单 Work Order/Contract/Invoice 7848457 329787695 Page 1 of 1					
6. 序号 Item	7. 内容 Description	8. 件号 Part No.	9. 适用性 Eligibility	10. 数量 Qty	11. 系列号/批号 Serial/Batch No.	12. 产品状态 Status/Work
001	STARTER AIR TURBINE	3505814-3	NOT KNOWN	1	1541	OVERHAULED

13 备注 Remarks

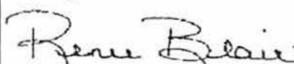
THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:

CMM 49-42-01 Rev 3, AUG/06/2011

HH. DD (HH:MM)

CSO	0.00
CSR	0.00
TSO	0.00 (0:00)
TSR	0.00 (0:00)

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

14. 新产品 New Parts  兹声明上述产品除第13项的其它规定以外, 已按照上述国家适航条例进行制造/检查, 并且该产品(出口产品)符合经批准的型号设计资料和进口国提出的专用要求。  <del>Certifies that the part(s) identified above except as otherwise specified in block 13 was (were) manufactured/inspected in accordance with the airworthiness regulations of the stated country and / or in the case of parts to be exported with the approved design data and with the notified special requirements of the importing country.</del>	15. 使用过的产品 Used Parts  兹声明上述产品除第13项的其它规定以外, 已按照上述国家适航条例和进口国通知的特殊要求进行了工作, 该产品处于安全可用状态可以批准放行使用。  <del>Certifies that the work specified above except as specified in block 13 was carried out in accordance with the airworthiness regulations of the stated country and the notified special requirements of the importing country and in respect to that work, the part(s) is(are) in condition for safe operation and considered ready for release to service. (over)</del>
16. 批准人签名 Signature  	18. 批准日期 Date OCT/11/2017
17. 批准人姓名 (打印的) Name (Printed) Renee Blair	19. 中国民航总局授权 Issued by or on behalf of the CAAC F00100122



批准放行证书/适航批准标签  
AUTHORIZED RELEASE CERTIFICATE/AIRWORTHINESS APPROVAL TAG  
使用者/安装者职责  
**USER/INSTALLER RESPONSIBILITIES**

- (1) 必须明确:本文件并不批准零件/组件/部件可以装到有关产品上。
  - (2) 当使用者/安装者使用的是所在国适航当局的条例,而不是本表第1项中所指国家适航当局的条例时,使用者/安装者必须保证所在国的适航当局能接受所指国家适航当局批准出口的零件/组件/部件。
  - (3) 表中第14项、第15项的陈述,并不说明本表是安装批准。在所有情况下,航空器使用前,航空器使用者/安装者应把按本国适航条例颁发的安装批准放入维修记录中。
- 
- (1) It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.
  - (2) Where the user/installer 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 ensure that his/her Airworthiness Authority accepts parts/components/assemblies from the Airworthiness Authority of the country specified in block 1.
  - (3) Statements 14 and 15 do not constitute installation certification. In all cases the aircraft maintenance record must contain an installation certification issued in accordance with the national regulation by the user/installer before the aircraft may be flown.

# ANALYTICAL CHECK SHEET FORM

**Honeywell**

Repair Facility :Honeywell R&O, Anniston, AL Repair  
Station No :ZX4R716M

**Customer PO :** 7848457  
**Notification No:** 000329787695  
**Outline No :** 3505814-3  
**Mod To Outline.:** 3505814-3

**Customer :** PLANT4146 Honeywell International SARL c/oHoneywell  
**Service Order No :** 5011466914      **Sales Order No :** 7848457  
**Serial No:** 1541      **Mod to S/N :** 1541  
**Model No.:** APU 331-500/600

	Material	Serial No.	Disp	Qty	Description	Service Order #
IN	3505814-3	1541	M	0	STARTER AIR TURBINE	5011466914
OUT	3505814-3	1541	M			

**REWORK CODE :** 303  
**CONDITION CODE :** AAA NO CODE AVAILABLE, SEE COMMENTS:      **ACCT IND :**

**ANALYST REMARKS :**

	Material	Serial No.	Disp	Qty	Description	Service Order #
IN	.3504391-1		N	1	RATCHET SHAFT SPLINE	
OUT	3504391-1		N			

**REWORK CODE :**  
**CONDITION CODE :** 7080 Spalling/Spalled      **ACCT IND :**

**ANALYST REMARKS :**

	Material	Serial No.	Disp	Qty	Description	Service Order #
IN	.3503973-1		U	1	COVER, GEAR HOUSING	
OUT	3503973-1		U			

**REWORK CODE :**  
**CONDITION CODE :** ACCT IND :

**ANALYST REMARKS :**

	Material	Serial No.	Disp	Qty	Description	Service Order #
IN	.572-514-9203		N	1	PLUG, MACHINE THREAD, MAGNETIC - DRAIN,	
OUT	572-514-9203		N			

**REWORK CODE :**  
**CONDITION CODE :** 770 Threads Damaged      **ACCT IND :**

**ANALYST REMARKS :**

	Material	Serial No.	Disp	Qty	Description	Service Order #
IN	.3503966-1		U	1	DEFLECTOR	
OUT	3503966-1		U			

**REWORK CODE :**  
**CONDITION CODE :** ACCT IND :

**ANALYST REMARKS :**

	Material	Serial No.	Disp	Qty	Description	Service Order #
IN	.3503960-1		U	1	DUCT, STATOR INLET, ASSY	
OUT	3503960-1		U			

**REWORK CODE :**  
**CONDITION CODE :** ACCT IND :

**ANALYST REMARKS :**

# ANALYTICAL CHECK SHEET FORM

**Honeywell**

Repair Facility : Honeywell R&O, Anniston, AL Repair  
Station No : ZX4R716M

**Customer PO :** 7848457  
**Notification No:** 000329787695  
**Outline No :** 3505814-3  
**Mod To Outline.:** 3505814-3

**Customer :** PLANT4146 Honeywell International SARL c/oHoneywell  
**Service Order No :** 5011466914      **Sales Order No :** 7848457  
**Serial No:** 1541  
**Mod to S/N :** 1541      **Model No. :** APU 331-500/600

	Material	Serial No.	Disp	Qty	Description	Service Order #
IN	.3503995-1	3-162045-258	U	1	RING, CONTAINMENT	
OUT	3503995-1	3-162045-258	U			

**REWORK CODE :**

**CONDITION CODE :**

**ACCT IND :**

**ANALYST REMARKS :**

	Material	Serial No.	Disp	Qty	Description	Service Order #
IN	.3503993-1		U	1	WASHER SPRING TENSION	
OUT	3503993-1		U			

**REWORK CODE :**

**CONDITION CODE :**

**ACCT IND :**

**ANALYST REMARKS :**

	Material	Serial No.	Disp	Qty	Description	Service Order #
IN	.3503969-1		U	1	GEARSHAFT, SPUR	
OUT	3503969-1		U			

**REWORK CODE :**

**CONDITION CODE :**

**ACCT IND :**

**ANALYST REMARKS :**

	Material	Serial No.	Disp	Qty	Description	Service Order #
IN	.3502438-1		N	1	BEARING, BALL, ANNULAR	
OUT	3502438-1		N			

**REWORK CODE :**

**CONDITION CODE :** 6360 100% upon Removal

**ACCT IND :**

**ANALYST REMARKS :**

	Material	Serial No.	Disp	Qty	Description	Service Order #
IN	.3503970-1		U	1	SPACER	
OUT	3503970-1		U			

**REWORK CODE :**

**CONDITION CODE :**

**ACCT IND :**

**ANALYST REMARKS :**

	Material	Serial No.	Disp	Qty	Description	Service Order #
IN	.3502438-1		N	1	BEARING, BALL, ANNULAR	
OUT	3502438-1		N			

**REWORK CODE :**

**CONDITION CODE :** 6360 100% upon Removal

**ACCT IND :**

**ANALYST REMARKS :**

# ANALYTICAL CHECK SHEET FORM

**Honeywell**

Repair Facility : Honeywell R&O, Anniston, AL Repair  
Station No : ZX4R716M

**Customer PO :** 7848457  
**Notification No:** 000329787695  
**Outline No :** 3505814-3  
**Mod To Outline. :** 3505814-3

**Customer :** PLANT4146 Honeywell International SARL c/o Honeywell  
**Service Order No :** 5011466914      **Sales Order No :** 7848457  
**Serial No:** 1541      **Mod to S/N :** 1541      **Model No. :** APU 331-500/600

	Material	Serial No.	Disp	Qty	Description	Service Order #
IN	.3504074-1		U	1	FILTER DISC	
OUT	3504074-1		U			

**REWORK CODE :**

**ACCT IND :**

**CONDITION CODE :**

**ANALYST REMARKS :**

	Material	Serial No.	Disp	Qty	Description	Service Order #
IN	.3503967-1		U	1	HOUSING ASSEMBLY, GEAR	
OUT	3503967-1		U			

**REWORK CODE :**

**ACCT IND :**

**CONDITION CODE :**

**ANALYST REMARKS :**

	Material	Serial No.	Disp	Qty	Description	Service Order #
IN	.3503997-1		U	1	BOLT, SPECIAL	
OUT	3503997-1		U			

**REWORK CODE :**

**ACCT IND :**

**CONDITION CODE :**

**ANALYST REMARKS :**

	Material	Serial No.	Disp	Qty	Description	Service Order #
IN	.3503998-1		N	1	WASHER, KEYED	
OUT	3503998-1		N			

**REWORK CODE :**

**ACCT IND :**

**CONDITION CODE :** 6360 100% upon Removal

**ANALYST REMARKS :**

	Material	Serial No.	Disp	Qty	Description	Service Order #
IN	.3503985-1	D93938	R	1	WHEEL ASSY, TURBINE, AXIAL FLOW	5011483314
OUT	3503985-1	D93938	R			

**REWORK CODE :** 350

**ACCT IND :**

**CONDITION CODE :** 6780 Worn

**ANALYST REMARKS :**

	Material	Serial No.	Disp	Qty	Description	Service Order #
IN	.3503982-2		N	1	BEARING, BALL, ANNULAR	
OUT	3503982-2		N			

**REWORK CODE :**

**ACCT IND :**

**CONDITION CODE :** 6360 100% upon Removal

**ANALYST REMARKS :**

# ANALYTICAL CHECK SHEET FORM

**Honeywell**

Repair Facility :Honeywell R&O, Anniston, AL Repair  
Station No :ZX4R716M

**Customer PO :** 7848457  
**Notification No:** 000329787695  
**Outline No :** 3505814-3  
**Mod To Outline.** :3505814-3

**Customer :** PLANT4146 Honeywell International SARL c/oHoneywell  
**Service Order No :** 5011466914      **Sales Order No :** 7848457  
**Serial No:** 1541  
**Mod to S/N :** 1541      **Model No. :** APU 331-500/600

	Material	Serial No.	Disp	Qty	Description	Service Order #
IN	.3503996-1		U	1	GEAR, SUN	
OUT	3503996-1		U			

**REWORK CODE :**

**CONDITION CODE :**

**ACCT IND :**

**ANALYST REMARKS :**

	Material	Serial No.	Disp	Qty	Description	Service Order #
IN	.3503994-2		U	1	JACKSHAFT	
OUT	3503994-2		U			

**REWORK CODE :**

**CONDITION CODE :**

**ACCT IND :**

**ANALYST REMARKS :**

	Material	Serial No.	Disp	Qty	Description	Service Order #
IN	.3504077-1		U	1	RING ASSEMBLY CONTAINMENT, AXIAL	
OUT	3504077-1		U			

**REWORK CODE :**

**CONDITION CODE :**

**ACCT IND :**

**ANALYST REMARKS :**

	Material	Serial No.	Disp	Qty	Description	Service Order #
IN	.3503971-1		N	1	SEAL, CARBON FACE	
OUT	3503971-1		N			

**REWORK CODE :**

**CONDITION CODE :** 6360 100% upon Removal

**ACCT IND :**

**ANALYST REMARKS :**

	Material	Serial No.	Disp	Qty	Description	Service Order #
IN	.3503972-1		N	1	ROTOR, SEAL	
OUT	3503972-1		N			

**REWORK CODE :**

**CONDITION CODE :** 6780 Worn

**ACCT IND :**

**ANALYST REMARKS :**

	Material	Serial No.	Disp	Qty	Description	Service Order #
IN	.3503982-2		N	1	BEARING, BALL, ANNULAR	
OUT	3503982-2		N			

**REWORK CODE :**

**CONDITION CODE :** 6360 100% upon Removal

**ACCT IND :**

**ANALYST REMARKS :**

# ANALYTICAL CHECK SHEET FORM

**Honeywell**

Repair Facility : Honeywell R&O, Anniston, AL Repair  
Station No : ZX4R716M

**Customer PO :** 7848457  
**Notification No:** 000329787695  
**Outline No :** 3505814-3  
**Mod To Outline. :** 3505814-3

**Customer :** PLANT4146 Honeywell International SARL c/oHoneywell  
**Service Order No :** 5011466914      **Sales Order No :** 7848457  
**Serial No:** 1541  
**Mod to S/N :** 1541      **Model No. :** APU 331-500/600

	Material	Serial No.	Disp	Qty	Description	Service Order #
IN	.3503968-2		U	1	CARRIER, TURBINE	
OUT	3503968-2		U			

**REWORK CODE :**

**CONDITION CODE :**

ACCT IND :

**ANALYST REMARKS :**

	Material	Serial No.	Disp	Qty	Description	Service Order #
IN	.3503962-1		U	1	GEAR, PLANET, COMPOUND	
OUT	3503962-1		U			

**REWORK CODE :**

**CONDITION CODE :**

ACCT IND :

**ANALYST REMARKS :**

	Material	Serial No.	Disp	Qty	Description	Service Order #
IN	.3503963-1		N	1	WASHER, THRUST	
OUT	3503963-1		N			

**REWORK CODE :**

**CONDITION CODE :** 6780 Worn

ACCT IND :

**ANALYST REMARKS :**

	Material	Serial No.	Disp	Qty	Description	Service Order #
IN	.3503983-2		N	1	CAGE, ROLLER BEARING	
OUT	3503983-2		N			

**REWORK CODE :**

**CONDITION CODE :** 6780 Worn

ACCT IND :

**ANALYST REMARKS :**

	Material	Serial No.	Disp	Qty	Description	Service Order #
IN	.3503964-1		N	1	SPACER, BEARING	
OUT	3503964-1		N			

**REWORK CODE :**

**CONDITION CODE :** 6360 100% upon Removal

ACCT IND :

**ANALYST REMARKS :**

	Material	Serial No.	Disp	Qty	Description	Service Order #
IN	.3503983-2		N	1	CAGE, ROLLER BEARING	
OUT	3503983-2		N			

**REWORK CODE :**

**CONDITION CODE :** 6780 Worn

ACCT IND :

**ANALYST REMARKS :**

# ANALYTICAL CHECK SHEET FORM

# Honeywell

Repair Facility :Honeywell R&O, Anniston, AL Repair  
Station No :ZX4R716M

Customer PO : 7848457  
Notification No: 000329787695  
Outline No : 3505814-3  
Mod To Outline. :3505814-3

Customer : PLANT4146 Honeywell International SARL c/oHoneywell  
Service Order No : 5011466914 Sales Order No : 7848457  
Serial No: 1541  
Mod to S/N : 1541  
Model No. : APU 331-500/600

	Material	Serial No.	Disp	Qty	Description	Service Order #
IN	.3503963-1		N	1	WASHER, THRUST	
OUT	3503963-1		N			

REWORK CODE :

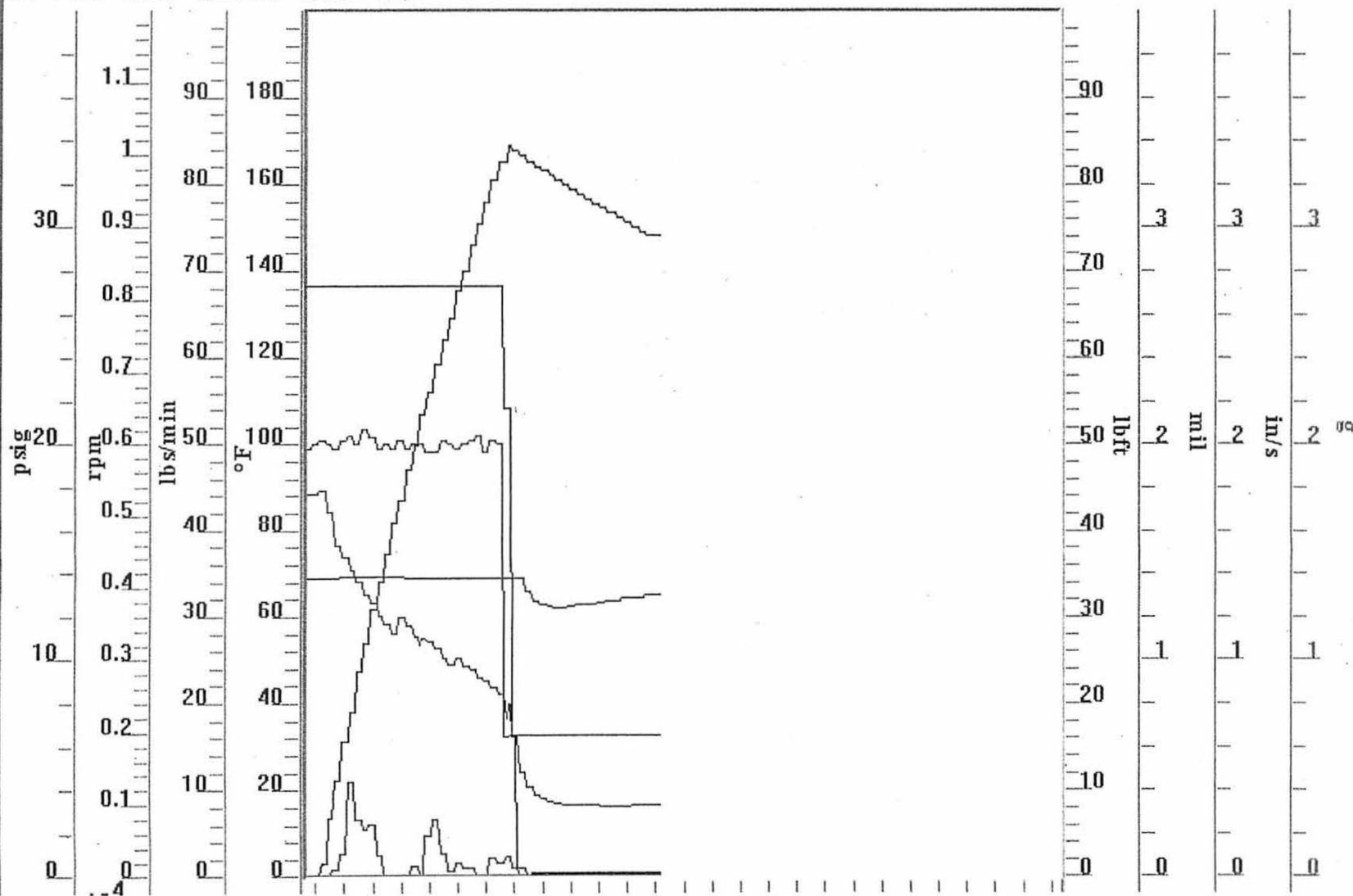
CONDITION CODE : 6780 Worn

ACCT IND :

ANALYST REMARKS :

## MessungHistory

File Setup Modes Operations Options Help



Re air Order: 5011466914RUN3  
 Partnumber: 3505814  
 Dash-No: 3  
 SerialNo: 1541  
 Operator: Geesken  
 Acceleration Time: 018.8 sec.  
 VibDisplacementMax 000.0 mil  
 StarterInletTemp.: 068.9 °F

eedsetoint1: 01000 rpm  
 Speedsetoint2: 04000 rpm  
 Speedsetoint3: 07000 rpm  
 Speedsetoint4: 10000 rpm  
 Cut off Speed: 10000 rpm  
 Max.Testtime: 055 sec.  
 Flywheel: 01.00 slug feet<sup>2</sup>  
 VibVelocityMax: 000.4 in/s  
 StarterInletPressure: 027.3 psig

TorqueSetoint1: 00040.21 lbft  
 TorqueSetoint2: 00031.16 lbft  
 TorqueSetoint3: 00027.03 lbft  
 TorqueSetoint4: 00021.48 lbft  
 Ambientpressure: 29.40 inchHG a  
 ATA: 49-42-01  
 Revision: 3  
 Revision Date: 08/06/2011  
 Time: 09:59:42  
 Date: 11 October 2017

Unit Under Test:  
 AirTurbineStarter.  
 R/O:  
 5011466914RUN3  
 PartNo.:  
 3505814  
 DashNo.:  
 3  
 SerialNo.:  
 1541  
 Operator:  
 Geesken  
 Orifice diameter:  
 000.00 inch  
 DeltaP:  
 000.00 inH2O  
 OrificePressure:  
 000.00 PSI  
 Orifice Temperature:  
 000.0 °F  
 Flow:  
 000.00 ppm  
 AmbientPressure:  
 029.40 inHGa  
 AmbientTemp.:  
 000.00 °F  
 Humidity:  
 000.00 %

FT  
557

Date:

Time:

Exit  
Print

QS1186/2002

start

6

3

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A

Search Desktop

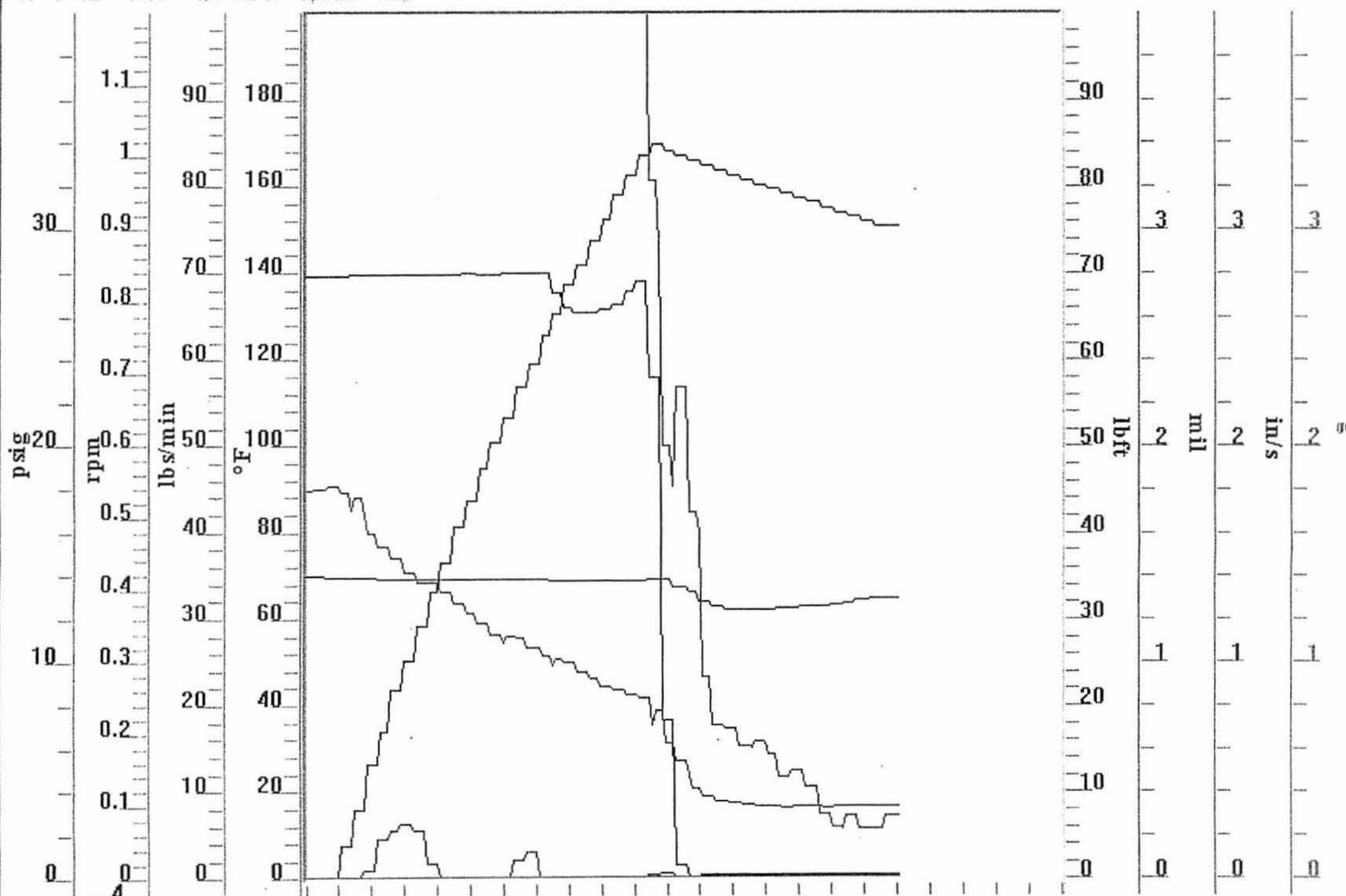
S

&lt;

9:59 AM

# MessungHistory

File Setup Modes Operations Options Help



Repair Order: 5011466914RUN4  
Partnumber: 3505814  
Dash-No: 3  
SerialNo: 1541  
Operator: Geesken  
Acceleration Time: 018.1 sec.  
VibDisplacementMax: 000.0 mil  
StarterInletTemp.: 069.0 °F

SpeedSetpoint1: 01000 rpm  
SpeedSetpoint2: 04000 rpm  
SpeedSetpoint3: 07000 rpm  
SpeedSetpoint4: 10000 rpm  
Cut off Speed: 10000 rpm  
Max.Testtime: 055 sec.  
Flywheel: 01.00 slug feet<sup>2</sup>  
VibVelocityMax: 000.2 in/s  
StarterInletPressure: 027.5 psig

TorqueSetpoint1: 00041.09 lbft  
TorqueSetpoint2: 00033.58 lbft  
TorqueSetpoint3: 00027.80 lbft  
TorqueSetpoint4: 00021.45 lbft  
Ambientpressure: 29.40 inchHG a  
ATA: 49-42-01  
Revision: 3  
Revision Date: 08/06/2011  
Time: 10:01:39  
Date: 11 October 2017

Unit Under Test:  
AirTurbineStarter.  
R/O:  
5011466914RUN4  
PartNo.:  
3505814  
DashNo.:  
3  
SerialNo.:  
1541  
Operator:  
Geesken  
Orifice diameter:  
000.00 inch  
DeltaP:  
000.00 inH2O  
OrificePressure:  
000.00 PSI  
Orifice Temperature:  
000.0 °F  
Flow:  
000.00 ppm  
AmbientPressure:  
029.40 inHG a  
AmbientTemp.:  
000.00 °F  
Humidity:  
000.00 %

FT  
57

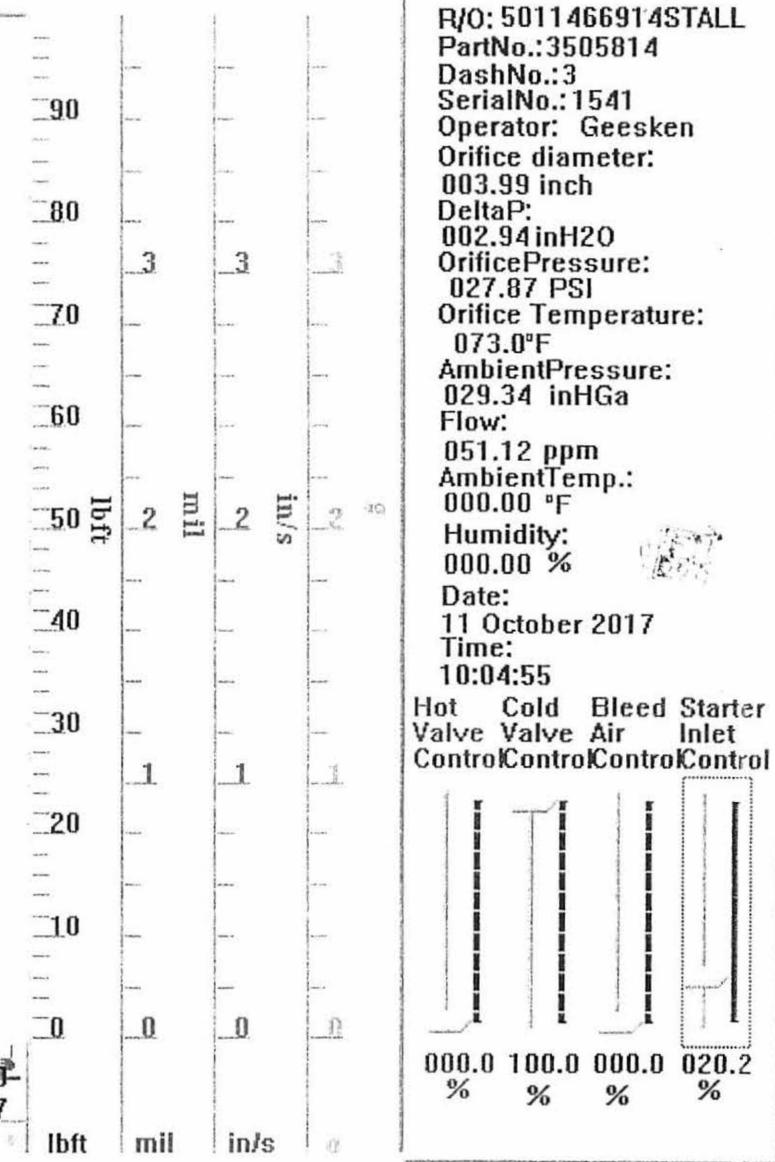
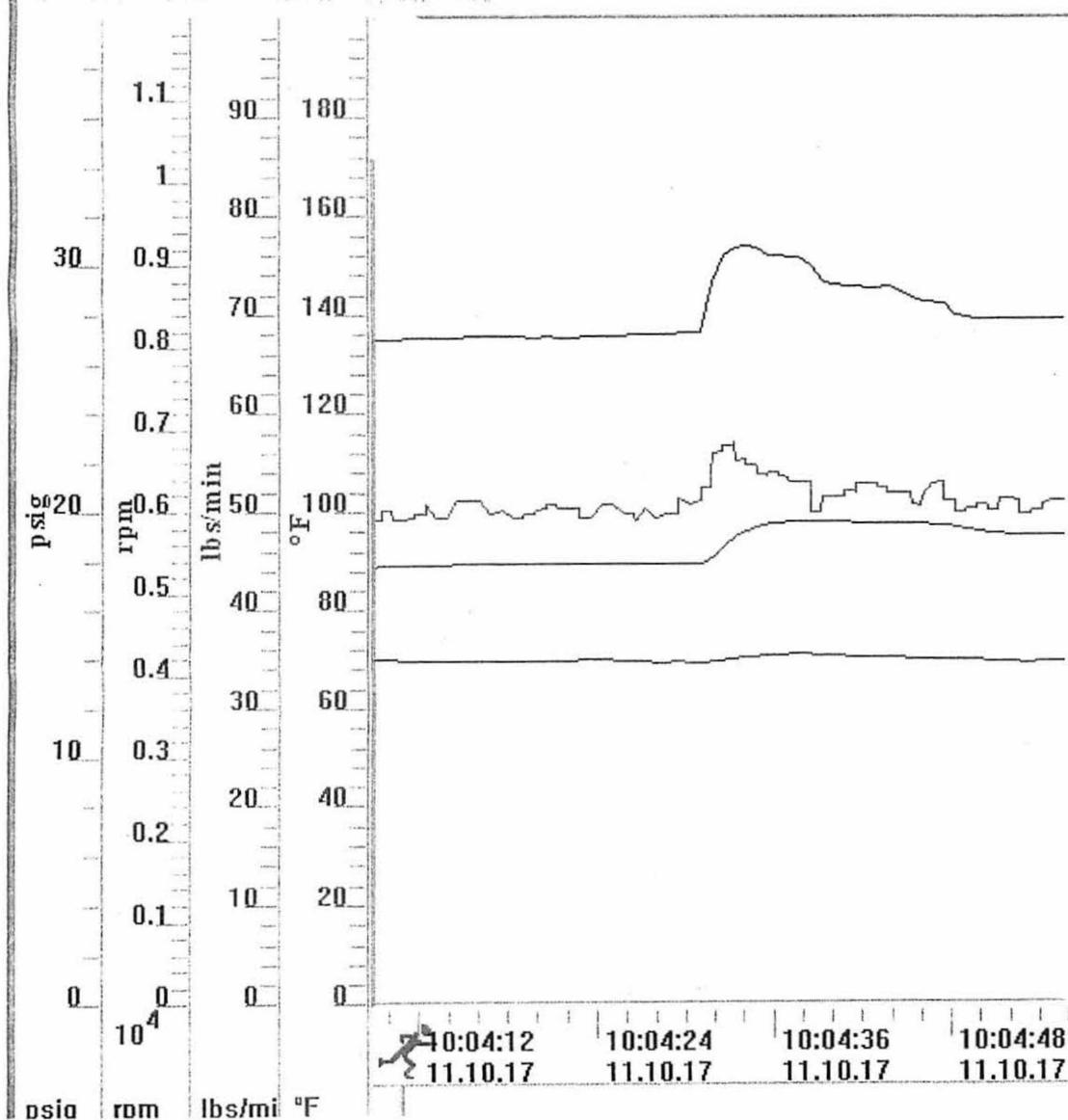
Date:

Time:



QS1186/2002

## MessungHistory



Orifice Press	Inlet Press	Temp1	Temp2	Speed	Torque	Displ.	Veloc.	Spare
086.1inHG	027.8 psig	069 °F	931 °F	00000 rpm	0047 lbft	00.0 mil	00.0 in/s	000.0 psig

10:04 AM

## StallAirFlow Only

R/O: 5011466914STALL

PartNo.: 3505814

DashNo.: 3

SerialNo.: 1541

Operator: Geesken

Orifice diameter:

003.99 inch

DeltaP:

002.94 inH2O

OrificePressure:

027.87 PSI

Orifice Temperature:

073.0°F

AmbientPressure:

029.34 inHGa

Flow:

051.12 ppm

AmbientTemp.:

000.00 °F

Humidity:

000.00 %

Date:

11 October 2017

Time:

10:04:55

Hot Valve Control	Cold Valve Control	Bleed Control	Starter Control	Inlet Control	Control
000.0 %	100.0 %	000.0 %	020.2 %		

1. Country <b>SINGAPORE</b>	2. CIVIL AVIATION AUTHORITY OF SINGAPORE <b>AUTHORIZED RELEASE CERTIFICATE</b> <b>CAAS(AW)95</b>				3. Form Tracking Number: 20170003776509Y06 330053409	
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619				Repair Station AWI/38	5. Work Order/Contract/Invoice Number: 10453748 330006248 Page 1 of 1	
6.Item:	7. Description: <b>001 IGNITION SYSTEM ASSY</b>	8. Part Number: <b>3888275-10</b>	9. Eligibility: <b>N/A</b>	10. Quantity: <b>1</b>	11. Serial / Batch Number: <b>N/A</b>	12. Status / Work: <b>REPAIRED</b>
<p>13. Remarks :</p> <p>THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:</p> <p>IRM 49-24-79 Rev 9, APR/29/2016  CMM 49-41-15 Rev 0, SEP/21/1994  CMM 49-41-17 Rev 6, NOV/30/2010  CMM 49-41-23 Rev 0, FEB/08/2000  TR 49-1 Rev -</p> <p>ALTERNATE SN OUTGOING : J17340052  SERIES/ISSUE/AMDTS: NIL  MODS: NIL</p> <p>SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED</p>						
14. NEW PARTS Certificates the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in condition for safe operation <input type="checkbox"/> Non-approved design data specified in Block 13			19. USED PARTS <input checked="" type="checkbox"/> SAR-145.50 Release to Service <input type="checkbox"/> Other regulation specified in Block 13. Certificates that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with SAR 145 and the Air Navigation Order and in respect to that work the items are considered ready for release to service.			
15. Authorized Signature:	16. CAAS Approval No.:	20. Authorized Signature:	21. CAAS Approval No.: <b>AWI/38</b>			
17. Name (Typed or Printed):	18. Date (dd mmm yyyy):	22. Name (Typed or Printed): <b>Tan Chat Pang</b>	23. Date (dd mmm yyyy): <b>16 OCT 2017</b>			
<b>User / Installer Responsibilities</b>						
1. It is important to understand that the existence of the Certificate alone does not automatically constitute authority to install the part/component/assembly. 2. Where the user/installer works in accordance with the national regulations of an Airworthiness Authority different from the Civil Aviation Authority of Singapore(CAAS), it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the CAAS. 3. Statements 14 and 19 do not constitute installation certification. In all cases, the aircraft maintenance record must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.						

1. Approving Competent Authority/Country  EASA	2.  <b>AUTHORISED RELEASE CERTIFICATE</b>  <b>EASA FORM 1</b>	3. Form Tracking Number  20170003776507Y02 330053409			
4. Organisation Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619		5. Work Order/Contract/Invoice  10453748  330006248 Page 1 of 1			
6. Item	7. Description	8. Part No	9. Qty	10. Serial No.	11. Status/Work
001	IGNITION SYSTEM ASSY	3838275-10	1	N/A	REPAIRED


**12. Remarks**

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:

IRM 49-24-79 Rev 9, APR/29/2016  
 CMM 49-41-15 Rev 0, SEP/21/1994  
 CMM 49-41-17 Rev 6, NOV/30/2010  
 CMM 49-41-23 Rev 0, FEB/08/2000  
 TR 49-1 Rev -

ALTERNATE SN OUTGOING : J17340052

SERIES/ISSUE/AMDTs: NIL

MODS: NIL

13a. Certifies that the items identified above were manufactured in conformity to:  <input type="checkbox"/> approved design data and are in condition for safe operation <input type="checkbox"/> non-approved design data specified in block 12	14a <input checked="" type="checkbox"/> Part-145.A.50 Release to Service <input type="checkbox"/> Other regulation 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 Part-145 and in respect to that work the items are considered ready for release to service.		
13b. Authorised Signature	13c. Approval/Authorisation Number	14b. Authorised Signature  	14c. Certificate/Approval Ref. No  EASA.145.0076
13d. Name	13e. Date (dd mmm yyyy)	14d. Name  Tan Chat Pang	14e. Date (dd mmm yyyy)  16 OCT 2017

**USER/INSTALLER RESPONSIBILITIES**

This certificate does not automatically constitute authority to install the item(s).

Where the user/installer performs work in accordance with regulation of an airworthiness authority different than the airworthiness authority specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts items from the airworthiness authority specified in block 1.

Statements 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.

1. Approving Civil Aviation Authority/Country: <b>FAA/United States</b>	<b>AUTHORIZED RELEASE CERTIFICATE</b> <b>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b>			3. Form Tracking Number: 20170003776508Y03 330053409
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619		Repair Station FT4Y192M	5. Work Order/Contract/Invoice Number: 10453748 330006248 Page 1 of 1	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:
001	IGNITION SYSTEM ASSY	3888275-10	1	N/A
11. Status / Work: <b>REPAIRED</b>				

**12. Remarks:**

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:

IRM 49-24-79 Rev 9, APR/29/2016

CMM 49-41-15 Rev 0, SEP/21/1994

CMM 49-41-17 Rev 6, NOV/30/2010

CMM 49-41-23 Rev 0, FEB/08/2000

TR 49-1 Rev -

ALTERNATE SN OUTGOING : J17340052

SERIES/ISSUE/AMDTs: NIL

MODS: NIL

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

13a. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.	14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation 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.:
13d. Name (Typed or Printed):	13e. Date(dd/mmm/yyyy):
14b. Authorized Signature:  	
14c. Approval/Certificate No.: <b>FT4Y192M</b>	
14d. Name (Typed or Printed): <b>Tan Chat Pang</b>	
14e. Date (dd/mmm/yyyy): <b>16/OCT/2017</b>	

**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. Statements 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.

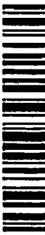


1. Country <b>SINGAPORE</b>	2. <b>CIVIL AVIATION AUTHORITY OF SINGAPORE AUTHORIZED RELEASE CERTIFICATE CAAS(AW)95</b>				3. Form Tracking Number: 20170003776474Y06 330052988	
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619				Repair Station AWI/38	5. Work Order/Contract/Invoice Number: 10453748 330006248 Page 1 of 1	
6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial / Batch Number:	12. Status / Work:
001	MODULE DATA MEMORY	304643-2	N/A	1	GE12119	INSPECTED / TESTED
13. Remarks : THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH: IRM 49-24-79 Rev 9, APR/29/2016						
SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED						
14. NEW PARTS Certificates the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in condition for safe operation <input type="checkbox"/> Non-approved design data specified in Block 13			19. USED PARTS <input checked="" type="checkbox"/> SAR-145.50 Release to Service <input type="checkbox"/> Other regulation specified in Block 13. Certificates that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with SAR 145 and the Air Navigation Order and in respect to that work the items are considered ready for release to service.			
15. Authorized Signature:		16. CAAS Approval No.:	20. Authorized Signature:		21. CAAS Approval No.: AWI/38	
17. Name (Typed or Printed):		18. Date (dd mmm yyyy):	22. Name (Typed or Printed): Tan Chat Pang		23. Date (dd mmm yyyy): 16 OCT 2017	
<b>User / Installer Responsibilities</b>						
1. It is important to understand that the existence of the Certificate alone does not automatically constitute authority to install the part/component/assembly. 2. Where the user/installer works in accordance with the national regulations of an Airworthiness Authority different from the Civil Aviation Authority of Singapore(CAAS), it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the CAAS. 3. Statements 14 and 19 do not constitute installation certification. In all cases, the aircraft maintenance record must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.						

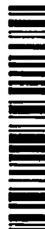
1. Approving Civil Aviation Authority/Country: <b>FAA/United States</b>	<b>AUTHORIZED RELEASE CERTIFICATE</b> <b>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b>			3. Form Tracking Number: 20170003776473Y03 330052988
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619		Repair Station FT4Y192M		5. Work Order/Contract/Invoice Number: 10453748 330006248 Page 1 of 1
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:
001	MODULE DATA MEMORY	304643-2	1	GE12119
11. Status / Work: <b>INSPECTED</b>				
12. Remarks: THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH: IRM 49-24-79 Rev 9, APR/29/2016				
SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED				
13a. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.		14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 12 Certificates 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.: <b>FT4Y192M</b>	
13d. Name (Typed or Printed):	13e. Date(dd/mmm/yyyy):	14d. Name (Typed or Printed): <b>Tan Chat Pang</b>	14e. Date (dd/mmm/yyyy): <b>16/OCT/2017</b>	

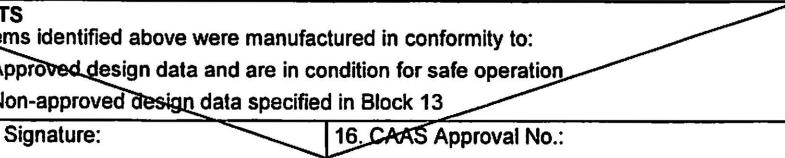
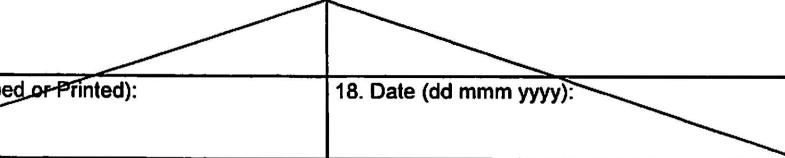
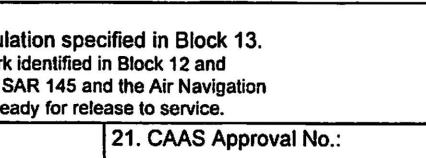
#### User / Installer Responsibilities

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. Statements 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.



1. Approving Competent Authority/Country  EASA		2. <b>AUTHORISED RELEASE CERTIFICATE</b> <b>EASA FORM 1</b>			3. Form Tracking Number  20170003776472Y02 330052988
4. Organisation Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619					5. Work Order/Contract/Invoice  10453748  330006248 Page 1 of 1
6. Item  001	7. Description  MODULE DATA MEMORY	8. Part No  304643-2	9. Qty  1	10. Serial No.  GE12119	11. Status/Work  INSPECTED / TESTED
12. Remarks  THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH: IRM 49-24-79 Rev 9, APR/29/2016					
13a. Certifies that the items identified above were manufactured in conformity to:  <input type="checkbox"/> approved design data and are in condition for safe operation <input type="checkbox"/> non-approved design data specified in block 12			14a <input checked="" type="checkbox"/> Part-145.A.50 Release to Service <input type="checkbox"/> Other regulation specified in block 12  Certificates that unless otherwise specified in block 12, the work identified in block 11 and described in block 12, was accomplished in accordance with Part-145 and in respect to that work the items are considered ready for release to service.		
13b. Authorised Signature	13c. Approval/Authorisation Number	14b. Authorised Signature  	14c. Certificate/Approval Ref. No  EASA.145.0076		
13d. Name	13e. Date (dd mmm yyyy)	14d. Name  Tan Chat Pang	14e. Date (dd mmm yyyy)  16 OCT 2017		
<b>USER/INSTALLER RESPONSIBILITIES</b> This certificate does not automatically constitute authority to install the item(s). Where the user/installer performs work in accordance with regulation of an airworthiness authority different than the airworthiness authority specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts items from the airworthiness authority specified in block 1. Statements 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.					



1. Country <b>SINGAPORE</b>	2. CIVIL AVIATION AUTHORITY OF SINGAPORE <b>AUTHORIZED RELEASE CERTIFICATE</b> <b>CAAS(AW)95</b>				3. Form Tracking Number: 20170003776467Y06 330053325
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619				Repair Station AWI/38	5. Work Order/Contract/Invoice Number: 10453748 330006248 Page 1 of 1
6. Item:	7. Description: <b>001 VALVE OUTLINE, SURGE CONTROL</b>	8. Part Number: <b>3290814-5</b>	9. Eligibility: <b>N/A</b>	10. Quantity: <b>1</b>	11. Serial / Batch Number: <b>3290814/888</b>
12. Status / Work: <b>OVERHAULED</b>					
13. Remarks : THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH: CMM 49-52-11 Rev 5, DEC/20/2003 CMM 49-52-13 Rev 7, JAN/05/2015 TR 49-3 Rev 7 NOTE: ACTUATOR SEALS, RING CLIP AND PISTON RING WERE REPLACED THIS SHOP VISIT. HH.DD (HH:MM) TSO 0.00 (0:00) CSO 0.00 TSR 0.00 (0:00)					
CONTINUED: CSR 0.00					
TEXT CONTINUED ON RIGHT SIDE SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED					
14. NEW PARTS Certificates the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in condition for safe operation <input type="checkbox"/> Non-approved design data specified in Block 13		19. USED PARTS <input checked="" type="checkbox"/> SAR-145.50 Release to Service <input type="checkbox"/> Other regulation specified in Block 13. Certificates that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with SAR 145 and the Air Navigation Order and in respect to that work the items are considered ready for release to service.			
15. Authorized Signature:	16. CAAS Approval No.:	17. Name (Typed or Printed):	18. Date (dd mmm yyyy):	20. Authorized Signature:	21. CAAS Approval No.: <b>AWI/38</b>
				 	
				22. Name (Typed or Printed): <b>Tan Chat Pang</b>	23. Date (dd mmm yyyy): <b>16 OCT 2017</b>
<b>User / Installer Responsibilities</b>					
1. It is important to understand that the existence of the Certificate alone does not automatically constitute authority to install the part/component/assembly. 2. Where the user/installer works in accordance with the national regulations of an Airworthiness Authority different from the Civil Aviation Authority of Singapore(CAAS), it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the CAAS. 3. Statements 14 and 19 do not constitute installation certification. In all cases, the aircraft maintenance record 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: <b>FAA/United States</b>	2. <b>AUTHORIZED RELEASE CERTIFICATE</b> <b>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b>	3. Form Tracking Number: . . . 20170003776466Y03 330053325
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4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619	Repair Station FT4Y192M	5. Work Order/Contract/Invoice Number: 10453748 330006248 Page 1 of 1
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6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status / Work:
001	VALVE OUTLINE, SURGE CONTROL	3290814-5	1	3290814/888	OVERHAULED

## 12. Remarks:

CONTINUED:

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:

CMM 49-52-11 Rev 5, DEC/20/2003

CMM 49-52-13 Rev 7, JAN/05/2015

TR 49-3 Rev 7

NOTE: ACTUATOR SEALS, RING CLIP AND PISTON RING WERE REPLACED THIS  
SHOP VISIT.

HH:DD (HH:MM)

CSR 0.00

HH:DD (HH:MM)

TSO 0.00 (0:00)

CSO 0.00

TSR 0.00 (0:00)

TEXT CONTINUED ON RIGHT SIDE

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

13a. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.	14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation 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.:
13d. Name (Typed or Printed):	13e. Date(dd/mmm/yyyy):	14d. Name (Typed or Printed): Tan Chat Pang	14e. Date (dd/mmm/yyyy): 16/OCT/2017

**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. Statements 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.

1. Approving Competent Authority/Country  EASA	2.  <b>AUTHORISED RELEASE CERTIFICATE</b>  <b>EASA FORM 1</b>	3. Form Tracking Number  20170003776465Y02 330053325			
4. Organisation Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619		5. Work Order/Contract/Invoice  10453748  330006248 Page 1 of 1			
6. Item	7. Description	8. Part No	9. Qty	10. Serial No.	11. Status/Work
001	VALVE OUTLINE, SURGE CONTROL	3290814-5	1	3290814/888	OVERHAULED

12. Remarks

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:  
 CMM 49-52-11 Rev 5, DEC/20/2003  
 CMM 49-52-13 Rev 7, JAN/05/2015  
 TR 49-3 Rev 7

NOTE: ACTUATOR SEALS, RING CLIP AND PISTON RING WERE REPLACED THIS SHOP VISIT.

CONTINUED:

HH.DD	(HH:MM)
CSR	0.00

HH.DD (HH:MM)  
 TSO 0.00 (0:00)  
 CSO 0.00  
 TSR 0.00 (0:00)

TEXT CONTINUED ON RIGHT SIDE

13a. Certifies that the items identified above were manufactured in conformity to: <input type="checkbox"/> approved design data and are in condition for safe operation <input type="checkbox"/> non-approved design data specified in block 12	14a <input checked="" type="checkbox"/> Part-145.A.50 Release to Service <input type="checkbox"/> Other regulation 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 Part-145 and in respect to that work the items are considered ready for release to service.
13b. Authorised Signature	13c. Approval/Authorisation Number
13d. Name	13e. Date (dd mmm yyyy)
	14d. Name Tan Chat Pang
	14e. Date (dd mmm yyyy) 16 OCT 2017

**USER/INSTALLER RESPONSIBILITIES**

This certificate does not automatically constitute authority to install the item(s).

Where the user/installer performs work in accordance with regulation of an airworthiness authority different than the airworthiness authority specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts items from the airworthiness authority specified in block 1.

Statements 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.



1. Country <b>SINGAPORE</b>	2. <b>CIVIL AVIATION AUTHORITY OF SINGAPORE AUTHORIZED RELEASE CERTIFICATE CAAS(AW)95</b>				3. Form Tracking Number: 20170003776433Y06 330041083
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619		Repair Station AWI/38	5. Work Order/Contract/Invoice Number: 10453748 330006248 Page 1 of 1		
6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial / Batch Number:
001	PNEUMATIC CLUSTER ASSY	3884863-7	N/A	1	P-1525
12. Status / Work: REPAIRED					
13. Remarks : THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH: CMM 49-52-11 Rev 5, DEC/20/2003 CMM 49-52-15 Rev 5, FEB/23/2010 ORI P30260 Rev -, APR/05/2004 TR 49-4					
<p style="text-align: center;">HH.DD      (HH:MM)</p> <p>CSR      0.00      TSR      0.00      (0:00)      SERIES/ISSUE/AMDTs: 1      MODS: NIL</p>					
SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED					
14. NEW PARTS Certificates the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in condition for safe operation <input type="checkbox"/> Non-approved design data specified in Block 13			19. USED PARTS <input checked="" type="checkbox"/> SAR-145.50 Release to Service <input type="checkbox"/> Other regulation specified in Block 13. Certificates that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with SAR 145 and the Air Navigation Order and in respect to that work the items are considered ready for release to service.		
15. Authorized Signature:		16. CAAS Approval No.:	20. Authorized Signature:	21. CAAS Approval No.: AWI/38	
17. Name (Typed or Printed):		18. Date (dd mmm yyyy):	22. Name (Typed or Printed): Tan Chat Pang	23. Date (dd mmm yyyy): 16 OCT 2017	
<b>User / Installer Responsibilities</b>					
1. It is important to understand that the existence of the Certificate alone does not automatically constitute authority to install the part/component/assembly. 2. Where the user/installer works in accordance with the national regulations of an Airworthiness Authority different from the Civil Aviation Authority of Singapore(CAAS), it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the CAAS. 3. Statements 14 and 19 do not constitute installation certification. In all cases, the aircraft maintenance record 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: <b>FAA/United States</b>	<b>AUTHORIZED RELEASE CERTIFICATE</b> <b>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b>			3. Form Tracking Number: . . . 20170003776431Y03 330041083
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619		Repair Station FT4Y192M	5. Work Order/Contract/Invoice Number: 10453748 330006248 Page 1 of 1	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:
001	PNEUMATIC CLUSTER ASSY	3884863-7	1	P-1525
11. Status / Work: <b>REPAIRED</b>				
12. Remarks: THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH: CMM 49-52-11 Rev 5, DEC/20/2003 CMM 49-52-15 Rev 5, FEB/23/2010 ORI P30260 Rev -, APR/05/2004 TR 49-4				
HH.DD (HH:MM) CSR 0.00 TSR 0.00 (0:00) SERIES/ISSUE/AMDTs: 1 MODS: NIL				
SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED				
13a. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.		14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 12 Certificates 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.:
				FT4Y192M
13d. Name (Typed or Printed):		13e. Date(dd/mmm/yyyy):	14d. Name (Typed or Printed):	14e. Date (dd/mmm/yyyy):
			Tan Chat Pang	16/OCT/2017

**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. Statements 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.

1. Approving Competent Authority/Country  EASA	2. <b>AUTHORISED RELEASE CERTIFICATE</b>  EASA FORM 1				3. Form Tracking Number  20170003776430Y02 330041083
4. Organisation Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619				5. Work Order/Contract/Invoice  10453748  330006248 Page 1 of 1	
6. Item	7. Description	8. Part No	9. Qty	10. Serial No.	11. Status/Work
001	PNEUMATIC CLUSTER ASSY	3884863-7	1	P-1525	REPAIRED

**12. Remarks**

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:

CMM 49-52-11 Rev 5, DEC/20/2003

CMM 49-52-15 Rev 5, FEB/23/2010

ORI P30260 Rev -, APR/05/2004

TR 49-4

HH.DD (HH:MM)

CSR 0.00

TSR 0.00 (0:00)

SERIES/ISSUE/AMDTS:1

MODS: NIL

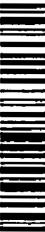
13a. Certifies that the items identified above were manufactured in conformity to:  <input type="checkbox"/> approved design data and are in condition for safe operation <input type="checkbox"/> non-approved design data specified in block 12	14a <input checked="" type="checkbox"/> Part-145.A.50 Release to Service <input type="checkbox"/> Other regulation 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 Part-145 and in respect to that work the items are considered ready for release to service.		
13b. Authorised Signature	13c. Approval/Authorisation Number	14b. Authorised Signature	14c. Certificate/Approval Ref. No
13d. Name	13e. Date (dd mmm yyyy)	14d. Name	14e. Date (dd mmm yyyy)

**USER/INSTALLER RESPONSIBILITIES**

This certificate does not automatically constitute authority to install the item(s).

Where the user/installer performs work in accordance with regulation of an airworthiness authority different than the airworthiness authority specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts items from the airworthiness authority specified in block 1.

Statements 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.



1. Country <b>SINGAPORE</b>	2. CIVIL AVIATION AUTHORITY OF SINGAPORE <b>AUTHORIZED RELEASE CERTIFICATE</b> <b>CAAS(AW)95</b>				3. Form Tracking Number: 20170003776426Y06 330054080
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619				Repair Station AWI/38	5. Work Order/Contract/Invoice Number: 10453748 330006248 Page 1 of 1
6.Item:	7. Description: <b>001 VALVE ASSY,ATS CONT</b>	8. Part Number: <b>3283076-5</b>	9. Eligibility.* <b>N/A</b>	10. Quantity: <b>1</b>	11. Serial / Batch Number: <b>1578</b>
12. Status / Work: <b>REPAIRED</b>					

13. Remarks :  
 THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:  
 CMM 49-52-19 Rev 3, APR/30/2007  
 ORI W01466 Rev -, MAR/12/2012

HH . DD      (HH : MM)  
 CSR      0.00  
 TSR      0.00      (0 : 00)

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

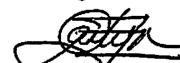
14. NEW PARTS Certificates the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in condition for safe operation <input type="checkbox"/> Non-approved design data specified in Block 13		19. USED PARTS <input checked="" type="checkbox"/> SAR-145.50 Release to Service <input type="checkbox"/> Other regulation specified in Block 13. Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with SAR 145 and the Air Navigation Order and in respect to that work the items are considered ready for release to service.		
15. Authorized Signature:	16. CAAS Approval No.:	20. Authorized Signature: 	21. CAAS Approval No.:	
17. Name (Typed or Printed):	18. Date (dd mmm yyyy):	22. Name (Typed or Printed): <b>Tan Chat Pang</b>	23. Date (dd mmm yyyy): <b>16 OCT 2017</b>	

#### User / Installer Responsibilities

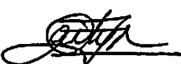
- It is important to understand that the existence of the Certificate alone does not automatically constitute authority to install the part/component/assembly.
- Where the user/installer works in accordance with the national regulations of an Airworthiness Authority different from the Civil Aviation Authority of Singapore(CAAS), it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the CAAS.
- Statements 14 and 19 do not constitute installation certification. In all cases, the aircraft maintenance record 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: <b>FAA/United States</b>	<b>AUTHORIZED RELEASE CERTIFICATE</b> <b>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b>			3. Form Tracking Number: 20170003776425Y03 330054080
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619		Repair Station FT4Y192M	5. Work Order/Contract/Invoice Number: 10453748 330006248 Page 1 of 1	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:
001	VALVE ASSY,ATS CONT	3283076-5	1	1578
11. Status / Work: <b>REPAIRED</b>				
12. Remarks: THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH: CMM 49-52-19 Rev 3, APR/30/2007 ORI W01466 Rev -, MAR/12/2012				
<p style="text-align: center;">HH.DD      (HH:MM)</p> <p>CSR      0.00 TSR      0.00      (0:00)</p>				
SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED				
13a. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.		14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 12 Certificates 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.:    <b>FT4Y192M</b>
13d. Name (Typed or Printed):		13e. Date(dd/mmm/yyyy):	14d. Name (Typed or Printed):  <b>Tan Chat Pang</b>	14e. Date (dd/mmm/yyyy):  <b>16/OCT/2017</b>
<b>User / Installer Responsibilities</b> 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. Statements 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.				



1. Approving Competent Authority/Country  EASA		2. AUTHORISED RELEASE CERTIFICATE  EASA FORM 1				3. Form Tracking Number  20170003776424Y02 330054080
4. Organisation Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619						5. Work Order/Contract/Invoice  10453748  330006248 Page 1 of 1
6. Item	7. Description	8. Part No	9. Qty	10. Serial No.	11. Status/Work	
001	VALVE ASSY,ATS CONT	3283076-5	1	1578	REPAIRED	
<b>12. Remarks</b> THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH: CMM 49-52-19 Rev 3, APR/30/2007 ORI W01466 Rev -, MAR/12/2012						
<p style="text-align: center;">HH.DD      (HH:MM)</p> <p>CSR      0.00 TSR      0.00      (0:00)</p>						
13a. Certifies that the items identified above were manufactured in conformity to: <input type="checkbox"/> approved design data and are in condition for safe operation <input type="checkbox"/> non-approved design data specified in block 12			14a <input checked="" type="checkbox"/> Part-145.A.50 Release to Service <input type="checkbox"/> Other regulation 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 Part-145 and in respect to that work the items are considered ready for release to service.			
13b. Authorised Signature		13c. Approval/Authorisation Number	14b. Authorised Signature		14c. Certificate/Approval Ref. No	
					EASA.145.0076	
13d. Name		13e. Date (dd mmm yyyy)	14d. Name		14e. Date (dd mmm yyyy)	
			Tan Chat Pang		16 OCT 2017	
<b>USER/INSTALLER RESPONSIBILITIES</b> This certificate does not automatically constitute authority to install the item(s). Where the user/installer performs work in accordance with regulation of an airworthiness authority different than the airworthiness authority specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts items from the airworthiness authority specified in block 1. Statements 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.						



1. Country <b>SINGAPORE</b>	2. CIVIL AVIATION AUTHORITY OF SINGAPORE <b>AUTHORIZED RELEASE CERTIFICATE</b> <b>CAAS(AW)95</b>				3. Form Tracking Number: 20170003776311Y06 330053347																					
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619				Repair Station AWI/38	5. Work Order/Contract/Invoice Number: 10453748 330006248 Page 1 of 1																					
6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial / Batch Number:																					
001	MOTOR OUTLINE, DIRECT CURRENT	2704442-5	N/A	1	1234																					
12. Status / Work: <b>OVERHAULED</b>																										
13. Remarks : THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH: CMM 49-42-02 Rev 5, APR/18/2014 TR 49-6 CMM 49-42-02																										
<table> <thead> <tr> <th></th> <th>HH.DD</th> <th>(HH:MM)</th> </tr> </thead> <tbody> <tr> <td>TSO</td> <td>0.00</td> <td>(0:00)</td> </tr> <tr> <td>CSO</td> <td>0.00</td> <td></td> </tr> <tr> <td>TSR</td> <td>0.00</td> <td>(0:00)</td> </tr> <tr> <td>CSR</td> <td>0.00</td> <td></td> </tr> <tr> <td colspan="3">SERIES/ISSUE/AMDTs: 2</td> </tr> <tr> <td colspan="3">MODS: NIL</td> </tr> </tbody> </table>							HH.DD	(HH:MM)	TSO	0.00	(0:00)	CSO	0.00		TSR	0.00	(0:00)	CSR	0.00		SERIES/ISSUE/AMDTs: 2			MODS: NIL		
	HH.DD	(HH:MM)																								
TSO	0.00	(0:00)																								
CSO	0.00																									
TSR	0.00	(0:00)																								
CSR	0.00																									
SERIES/ISSUE/AMDTs: 2																										
MODS: NIL																										
SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED																										
14. NEW PARTS Certificates the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in condition for safe operation <input type="checkbox"/> Non-approved design data specified in Block 13		19. USED PARTS <input checked="" type="checkbox"/> SAR-145.50 Release to Service <input type="checkbox"/> Other regulation specified in Block 13. Certificates that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with SAR 145 and the Air Navigation Order and in respect to that work the items are considered ready for release to service.																								
15. Authorized Signature:		16. CAAS Approval No.:		20. Authorized Signature:	21. CAAS Approval No.:   																					
17. Name (Typed or Printed):		18. Date (dd mmm yyyy):		22. Name (Typed or Printed): Tan Chat Pang	23. Date (dd mmm yyyy): 16 OCT 2017																					
<b>User / Installer Responsibilities</b>																										
1. It is important to understand that the existence of the Certificate alone does not automatically constitute authority to install the part/component/assembly. 2. Where the user/installer works in accordance with the national regulations of an Airworthiness Authority different from the Civil Aviation Authority of Singapore(CAAS), it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the CAAS. 3. Statements 14 and 19 do not constitute installation certification. In all cases, the aircraft maintenance record 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: <b>FAA/United States</b>	2. <b>AUTHORIZED RELEASE CERTIFICATE</b> <b>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b>			3. Form Tracking Number: . . . 20170003776310Y03 330053347
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619		Repair Station FT4Y192M	5. Work Order/Contract/Invoice Number: 10453748 330006248 Page 1 of 1	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:
001	MOTOR OUTLINE, DIRECT CURRENT	2704442-5	1	1234
11. Status / Work: <b>OVERHAULED</b>				

12. Remarks:

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:

CMM 49-42-02 Rev 5, APR/18/2014

TR 49-6 CMM 49-42-02

HH : DD      (HH : MM)  
TSO      0.00      (0 : 00)

CSO      0.00

TSR      0.00      (0 : 00)

CSR      0.00

SERIES/ISSUE/AMDTs: 2

MODS: NIL

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

13a. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.	14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 12 Certificates 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.: <b>FT4Y192M</b>
13d. Name (Typed or Printed):	13e. Date(dd/mmm/yyyy):	14d. Name (Typed or Printed): <b>Tan Chat Pang</b>	14e. Date (dd/mmm/yyyy): <b>16/OCT/2017</b>

**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. Statements 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.

1. Approving Competent Authority/Country  EASA		2. <b>AUTHORISED RELEASE CERTIFICATE</b>  <b>EASA FORM 1</b>			3. Form Tracking Number  20170003776309Y02 330053347
4. Organisation Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619					5. Work Order/Contract/Invoice  10453748  330006248 Page 1 of 1
6. Item  001	7. Description  MOTOR OUTLINE, DIRECT CURRENT	8. Part No  2704442-5	9. Qty  1	10. Serial No.  1234	11. Status/Work  OVERHAULED
<b>12. Remarks</b>  THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH: CMM 49-42-02 Rev 5, APR/18/2014 TR 49-6 CMM 49-42-02  HH.DD (HH:MM) TSO 0.00 (0:00) CSO 0.00 TSR 0.00 (0:00) CSR 0.00 SERIES/ISSUE/AMDTs: 2 MODS: NIL					
13a. Certifies that the items identified above were manufactured in conformity to:  <input type="checkbox"/> approved design data and are in condition for safe operation <input type="checkbox"/> non-approved design data specified in block 12			14a <input checked="" type="checkbox"/> Part-145.A.50 Release to Service <input type="checkbox"/> Other regulation specified in block 12  Certificates that unless otherwise specified in block 12, the work identified in block 11 and described in block 12, was accomplished in accordance with Part-145 and in respect to that work the items are considered ready for release to service.		
13b. Authorised Signature		13c. Approval/Authorisation Number	14b. Authorised Signature  	14c. Certificate/Approval Ref. No  EASA.145.0076	
13d. Name		13e. Date (dd mmm yyyy)	14d. Name  Tan Chat Pang	14e. Date (dd mmm yyyy)  16 OCT 2017	
<b>USER/INSTALLER RESPONSIBILITIES</b> This certificate does not automatically constitute authority to install the item(s). Where the user/installer performs work in accordance with regulation of an airworthiness authority different than the airworthiness authority specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts items from the airworthiness authority specified in block 1. Statements 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.					



1. Country <b>SINGAPORE</b>	2. CIVIL AVIATION AUTHORITY OF SINGAPORE <b>AUTHORIZED RELEASE CERTIFICATE</b> <b>CAAS(AW)95</b>				3. Form Tracking Number: 20170003776317Y06 330054722
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619				Repair Station AWI/38	5. Work Order/Contract/Invoice Number: 10453748 330006248 Page 1 of 1
6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial / Batch Number:
001	ACTUATOR, INLET GUIDE VANE	3883499-3	N/A	1	1552
12. Status / Work: <b>INSPECTED / TESTED</b>					
13. Remarks : THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH: CMM 49-50-05 Rev 9, SEP/11/2014 UNIT TESTED.					
SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED					
14. NEW PARTS Certificates the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in condition for safe operation <input type="checkbox"/> Non-approved design data specified in Block 13		19. USED PARTS <input checked="" type="checkbox"/> SAR-145.50 Release to Service <input type="checkbox"/> Other regulation specified in Block 13. Certificates that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with SAR 145 and the Air Navigation Order and in respect to that work the items are considered ready for release to service.			
15. Authorized Signature:	16. CAAS Approval No.:	20. Authorized Signature:	21. CAAS Approval No.: <b>AWI/38</b>		
17. Name (Typed or Printed):	18. Date (dd mmm yyyy):	22. Name (Typed or Printed): <b>Tan Chat Pang</b>	23. Date (dd mmm yyyy): <b>16 OCT 2017</b>		
<b>User / Installer Responsibilities</b>					
1. It is important to understand that the existence of the Certificate alone does not automatically constitute authority to install the part/component/assembly. 2. Where the user/installer works in accordance with the national regulations of an Airworthiness Authority different from the Civil Aviation Authority of Singapore(CAAS), it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the CAAS. 3. Statements 14 and 19 do not constitute installation certification. In all cases, the aircraft maintenance record 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: <b>FAA/United States</b>	<b>AUTHORIZED RELEASE CERTIFICATE</b> <b>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b>			3. Form Tracking Number: 20170003776316Y03 330054722
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4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619	Repair Station FT4Y192M	5. Work Order/Contract/Invoice Number: 10453748 330006248 Page 1 of 1
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6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status / Work:
001	ACTUATOR, INLET GUIDE VANE	3883499-3	1	1552	INSPECTED

12. Remarks:

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:  
CMM 49-50-05 Rev 9, SEP/11/2014  
UNIT TESTED.

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

13a. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.	14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation 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.: FT4Y192M
13d. Name (Typed or Printed):	13e. Date(dd/mmm/yyyy):	14d. Name (Typed or Printed): Tan Chat Pang	14e. Date (dd/mmm/yyyy): 16/OCT/2017

**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. Statements 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.

1. Approving Competent Authority/Country  EASA		2.  <b>AUTHORISED RELEASE CERTIFICATE</b>  <b>EASA FORM 1</b>			3. Form Tracking Number  20170003776315Y02 330054722
4. Organisation Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619					5. Work Order/Contract/Invoice  10453748  330006248 Page 1 of 1
6. Item	7. Description	8. Part No	9. Qty	10. Serial No.	11. Status/Work
001	ACTUATOR, INLET GUIDE VANE	3883499-3	1	1552	INSPECTED / TESTED
<b>12. Remarks</b> THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH: CMM 49-50-05 Rev 9, SEP/11/2014 UNIT TESTED.					
13a. Certifies that the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> approved design data and are in condition for safe operation <input type="checkbox"/> non-approved design data specified in block 12			14a <input checked="" type="checkbox"/> Part-145.A.50 Release to Service <input type="checkbox"/> Other regulation specified in block 12 Certificates that unless otherwise specified in block 12, the work identified in block 11 and described in block 12, was accomplished in accordance with Part-145 and in respect to that work the items are considered ready for release to service.		
13b. Authorised Signature		13c. Approval/Authorisation Number	14b. Authorised Signature  	14c. Certificate/Approval Ref. No  EASA.145.0076	
13d. Name		13e. Date (dd mmm yyyy)	14d. Name Tan Chat Pang	14e. Date (dd mmm yyyy) 16 OCT 2017	
<b>USER/INSTALLER RESPONSIBILITIES</b> This certificate does not automatically constitute authority to install the item(s). Where the user/installer performs work in accordance with regulation of an airworthiness authority different than the airworthiness authority specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts items from the airworthiness authority specified in block 1. Statements 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.					



1. Country <b>SINGAPORE</b>	2. CIVIL AVIATION AUTHORITY OF SINGAPORE <b>AUTHORIZED RELEASE CERTIFICATE</b> <b>CAAS(AW)95</b>				3. Form Tracking Number: 20170003776323Y06 330053522
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619				Repair Station AWI/38	5. Work Order/Contract/Invoice Number: 10453748 330006248 Page 1 of 1
6. Item:	7. Description:	8. Part Number:	9. Eligibility: N/A	10. Quantity: 1	11. Serial / Batch Number: CUA11725
001	FUEL CLUSTER	3879008-1			12. Status / Work: INSPECTED / TESTED
13. Remarks : THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH: CMM 49-31-71 Rev 8, FEB/22/2012 UNIT TESTED.					
SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED					
14. NEW PARTS Certificates the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in condition for safe operation <input type="checkbox"/> Non-approved design data specified in Block 13		19. USED PARTS <input checked="" type="checkbox"/> SAR-145.50 Release to Service <input type="checkbox"/> Other regulation specified in Block 13. Certificates that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with SAR 145 and the Air Navigation Order and in respect to that work the items are considered ready for release to service.			
15. Authorized Signature:	16. CAAS Approval No.:	20. Authorized Signature:	21. CAAS Approval No.: AWI/38		
17. Name (Typed or Printed):	18. Date (dd mmm yyyy):	22. Name (Typed or Printed): Tan Chat Pang	23. Date (dd mmm yyyy): 16 OCT 2017		
<b>User / Installer Responsibilities</b>					
1. It is important to understand that the existence of the Certificate alone does not automatically constitute authority to install the part/component/assembly. 2. Where the user/installer works in accordance with the national regulations of an Airworthiness Authority different from the Civil Aviation Authority of Singapore(CAAS), it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the CAAS. 3. Statements 14 and 19 do not constitute installation certification. In all cases, the aircraft maintenance record 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: <b>FAA/United States</b>	2. <b>AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b>				3. Form Tracking Number: 20170003776322Y03 330053522
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619		Repair Station FT4Y192M		5. Work Order/Contract/Invoice Number: 10453748 330006248 Page 1 of 1	
6.Item: 001	7. Description: FUEL CLUSTER	8. Part Number: 3879008-1	9. Quantity: 1	10. Serial Number: CUA11725	11. Status / Work: INSPECTED
12. Remarks: THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH: CMM 49-31-71 Rev 8, FEB/22/2012 UNIT TESTED.					
SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED					
13a. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.		14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 12 Certificates 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.: <b>FT4Y192M</b>	
13d. Name (Typed or Printed):		13e. Date(dd/mmm/yyyy):	14d. Name (Typed or Printed): <b>Tan Chat Pang</b>	14e. Date (dd/mmm/yyyy): <b>16/OCT/2017</b>	
<b>User / Installer Responsibilities</b> 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. Statements 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.					

1. Approving Competent Authority/Country  EASA		2. <b>AUTHORISED RELEASE CERTIFICATE</b>  <b>EASA FORM 1</b>			3. Form Tracking Number  20170003776321Y02 330053522
4. Organisation Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619					5. Work Order/Contract/Invoice  10453748  330006248 Page 1 of 1
6. Item	7. Description	8. Part No	9. Qty	10. Serial No.	11. Status/Work
001	FUEL CLUSTER	3879008-1	1	CUA11725	INSPECTED / TESTED
12. Remarks  THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH: CMM 49-31-71 Rev 8, FEB/22/2012 UNIT TESTED.					
13a. Certifies that the items identified above were manufactured in conformity to:  <input type="checkbox"/> approved design data and are in condition for safe operation <input type="checkbox"/> non-approved design data specified in block 12			14a <input checked="" type="checkbox"/> Part-145.A.50 Release to Service <input type="checkbox"/> Other regulation 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 Part-145 and in respect to that work the items are considered ready for release to service.		
13b. Authorised Signature		13c. Approval/Authorisation Number	14b. Authorised Signature	14c. Certificate/Approval Ref. No  EASA.145.0076	
13d. Name		13e. Date (dd mmm yyyy)	14d. Name  Tan Chat Pang	14e. Date (dd mmm yyyy)  16 OCT 2017	
<b>USER/INSTALLER RESPONSIBILITIES</b> This certificate does not automatically constitute authority to install the item(s). Where the user/installer performs work in accordance with regulation of an airworthiness authority different than the airworthiness authority specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts items from the airworthiness authority specified in block 1. Statements 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.					



1. Country <b>SINGAPORE</b>	2. CIVIL AVIATION AUTHORITY OF SINGAPORE <b>AUTHORIZED RELEASE CERTIFICATE</b> <b>CAAS(AW)95</b>				3. Form Tracking Number: 20170003776331Y06 330053309	
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619				Repair Station AWI/38	5. Work Order/Contract/Invoice Number: 10453748 330006248 Page 1 of 1	
6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial / Batch Number:	12. Status / Work:
001	SENSOR, LOW OIL QUANTITY	3876211-3	N/A	1	N/A	INSPECTED / TESTED

13. Remarks :

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:

CMM 49-93-11 Rev 0, NOV/19/2010

UNIT TESTED.

ALTERNATE SN OUTGOING : 97424-DTP1471

SERIES/ISSUE/AMDTS: NIL

MODS: NIL

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

14. NEW PARTS

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

15. Authorized Signature:

16. CAAS Approval No.:

19. USED PARTS

- SAR-145.50 Release to Service  Other regulation specified in Block 13.

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with SAR 145 and the Air Navigation Order and in respect to that work the items are considered ready for release to service.

20. Authorized Signature:



21. CAAS Approval No.:

AWI/38

17. Name (Typed or Printed):

18. Date (dd mmm yyyy):

22. Name (Typed or Printed):

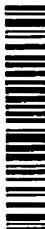
23. Date (dd mmm yyyy):

Tan Chat Pang

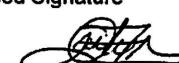
16 OCT 2017

User / Installer Responsibilities

1. It is important to understand that the existence of the Certificate alone does not automatically constitute authority to install the part/component/assembly.
2. Where the user/installer works in accordance with the national regulations of an Airworthiness Authority different from the Civil Aviation Authority of Singapore(CAAS), it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the CAAS.
3. Statements 14 and 19 do not constitute installation certification. In all cases, the aircraft maintenance record must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

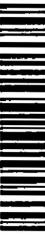


1. Approving Civil Aviation Authority/Country: <b>FAA/United States</b>	2. <b>AUTHORIZED RELEASE CERTIFICATE</b> <b>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b>			3. Form Tracking Number: 20170003776330Y03 330053309
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619		Repair Station FT4Y192M	5. Work Order/Contract/Invoice Number: 10453748 330006248 Page 1 of 1	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:
001	SENSOR, LOW OIL QUANTITY	3876211-3	1	N/A
11. Status / Work: <b>INSPECTED</b>				
<b>12. Remarks:</b> THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH: CMM 49-93-11 Rev 0, NOV/19/2010 UNIT TESTED. ALTERNATE SN OUTGOING : 97424-DTP1471 SERIES/ISSUE/AMDTS: NIL MODS: NIL				
SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED				
13a. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.		14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation 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.:	
13d. Name (Typed or Printed):	13e. Date(dd/mmm/yyyy):	14d. Name (Typed or Printed): Tan Chat Pang	14e. Date (dd/mmm/yyyy): 16/OCT/2017	
<b>User / Installer Responsibilities</b> 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 certification. In all cases, aircraft 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 Competent Authority/Country  EASA		2. <b>AUTHORISED RELEASE CERTIFICATE</b>  <b>EASA FORM 1</b>			3. Form Tracking Number  20170003776329Y02 330053309
4. Organisation Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619					5. Work Order/Contract/Invoice  10453748  330006248 Page 1 of 1
6. Item	7. Description	8. Part No	9. Qty	10. Serial No.	11. Status/Work
001	SENSOR, LOW OIL QUANTITY	3876211-3	1	N/A	INSPECTED / TESTED
<b>12. Remarks</b>  THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH: CMM 49-93-11 Rev 0, NOV/19/2010 UNIT TESTED. ALTERNATE SN OUTGOING : 97424-DTP1471 SERIES/ISSUE/AMDTs:NIL MODS: NIL					
13a. Certifies that the items identified above were manufactured in conformity to: <input type="checkbox"/> approved design data and are in condition for safe operation <input type="checkbox"/> non-approved design data specified in block 12		14a <input checked="" type="checkbox"/> Part-145.A.50 Release to Service <input type="checkbox"/> Other regulation specified in block 12  Certificates that unless otherwise specified in block 12, the work identified in block 11 and described in block 12, was accomplished in accordance with Part-145 and in respect to that work the items are considered ready for release to service.			
13b. Authorised Signature	13c. Approval/Authorisation Number	14b. Authorised Signature 	14c. Certificate/Approval Ref. No  EASA.145.0076		
13d. Name	13e. Date (dd mmm yyyy)	14d. Name Tan Chat Pang	14e. Date (dd mmm yyyy) 16 OCT 2017		
<b>USER/INSTALLER RESPONSIBILITIES</b> This certificate does not automatically constitute authority to install the item(s). Where the user/installer performs work in accordance with regulation of an airworthiness authority different than the airworthiness authority specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts items from the airworthiness authority specified in block 1. Statements 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.					



1. Country <b>SINGAPORE</b>	2. CIVIL AVIATION AUTHORITY OF SINGAPORE <b>AUTHORIZED RELEASE CERTIFICATE</b> <b>CAAS(AW)95</b>				3. Form Tracking Number: 20170003776342Y06 330052916
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619		Repair Station AWI/38	5. Work Order/Contract/Invoice Number: 10453748 330006248 Page 1 of 1		
6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial / Batch Number:
001	COOLER	160488-2	N/A	1	1664
12. Status / Work: <b>INSPECTED / TESTED</b>					
13. Remarks : THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH: CMM 49-94-22 Rev 1, OCT/30/2004 ORI R00389 Rev A, JAN/22/2016 UNIT TESTED.					
SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED					
14. NEW PARTS Certificates the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in condition for safe operation <input type="checkbox"/> Non-approved design data specified in Block 13		19. USED PARTS <input checked="" type="checkbox"/> SAR-145.50 Release to Service <input type="checkbox"/> Other regulation specified in Block 13. Certificates that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with SAR 145 and the Air Navigation Order and in respect to that work the items are considered ready for release to service.			
15. Authorized Signature:	16. CAAS Approval No.:	20. Authorized Signature:	21. CAAS Approval No.: <b>AWI/38</b>		
17. Name (Typed or Printed):	18. Date (dd mmm yyyy):	22. Name (Typed or Printed): <b>Tan Chat Pang</b>	23. Date (dd mmm yyyy): <b>16 OCT 2017</b>		
<b>User / Installer Responsibilities</b>					
1. It is important to understand that the existence of the Certificate alone does not automatically constitute authority to install the part/component/assembly. 2. Where the user/installer works in accordance with the national regulations of an Airworthiness Authority different from the Civil Aviation Authority of Singapore(CAAS), it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the CAAS. 3. Statements 14 and 19 do not constitute installation certification. In all cases, the aircraft maintenance record 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: <b>FAA/United States</b>	<b>AUTHORIZED RELEASE CERTIFICATE</b> <b>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b>			3. Form Tracking Number: 20170003776340Y03 330052916
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619		Repair Station FT4Y192M	5. Work Order/Contract/Invoice Number: 10453748 330006248 Page 1 of 1	
6.Item: 001	7. Description: COOLER	8. Part Number: 160488-2	9. Quantity: 1	10. Serial Number: 1664
11. Status / Work: <b>INSPECTED</b>				

12. Remarks:

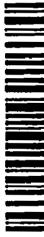
THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:  
 CMM 49-94-22 Rev 1, OCT/30/2004  
 ORI R00389 Rev A, JAN/22/2016  
 UNIT TESTED.

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

13a. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.	14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 12 <p>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.</p>
13b. Authorized Signature:	13c. Approval/Authorization No.:
13d. Name (Typed or Printed):	13e. Date(dd/mmm/yyyy):
14b. Authorized Signature:  	
14c. Approval/Certificate No.: <b>FT4Y192M</b>	
14d. Name (Typed or Printed): <b>Tan Chat Pang</b>	
14e. Date (dd/mmm/yyyy): <b>16/OCT/2017</b>	

**User / Installer Responsibilities**

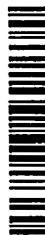
It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness 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. Statements 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.



1. Approving Competent Authority/Country  EASA		2. <b>AUTHORISED RELEASE CERTIFICATE</b>  <b>EASA FORM 1</b>			3. Form Tracking Number  20170003776339Y02 330052916
4. Organisation Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619					5. Work Order/Contract/Invoice  10453748  330006248 Page 1 of 1
6. Item	7. Description	8. Part No	9. Qty	10. Serial No.	11. Status/Work
001	COOLER	160488-2	1	1664	INSPECTED / TESTED
<b>12. Remarks</b> THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH: CMM 49-94-22 Rev 1, OCT/30/2004 ORI R00389 Rev A, JAN/22/2016 UNIT TESTED.					
13a. Certifies that the items identified above were manufactured in conformity to: <input type="checkbox"/> approved design data and are in condition for safe operation <input type="checkbox"/> non-approved design data specified in block 12			14a <input checked="" type="checkbox"/> Part-145.A.50 Release to Service <input type="checkbox"/> Other regulation specified in block 12 Certificates that unless otherwise specified in block 12, the work identified in block 11 and described in block 12, was accomplished in accordance with Part-145 and in respect to that work the items are considered ready for release to service.		
13b. Authorised Signature		13c. Approval/Authorisation Number	14b. Authorised Signature 	14c. Certificate/Approval Ref. No EASA.145.0076	
13d. Name		13e. Date (dd mmm yyyy)	14d. Name Tan Chat Pang	14e. Date (dd mmm yyyy) 16 OCT 2017	
<b>USER/INSTALLER RESPONSIBILITIES</b> This certificate does not automatically constitute authority to install the item(s). Where the user/installer performs work in accordance with regulation of an airworthiness authority different than the airworthiness authority specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts items from the airworthiness authority specified in block 1. Statements 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.					



1. Country <b>SINGAPORE</b>	2. CIVIL AVIATION AUTHORITY OF SINGAPORE <b>AUTHORIZED RELEASE CERTIFICATE</b> <b>CAAS(AW)95</b>				3. Form Tracking Number: 20170003776338Y06 330052918
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619		Repair Station AWI/38	5. Work Order/Contract/Invoice Number: 10453748 330006248 Page 1 of 1		
6. Item: 001	7. Description: APU OIL TEMP VALVE	8. Part Number: 160536-1	9. Eligibility: N/A	10. Quantity: 1	11. Serial / Batch Number: 1508
12. Status / Work: <b>INSPECTED / TESTED</b>					
<p>13. Remarks :  <b>THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:</b>  <b>CMM 49-94-26 Rev 3, DEC/29/2006</b>  <b>UNIT TESTED.</b>  <b>SERIES/ISSUE/AMDTS : 2</b> </p>					
<p>SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED</p>					
14. NEW PARTS Certificates the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in condition for safe operation <input type="checkbox"/> Non-approved design data specified in Block 13			19. USED PARTS <input checked="" type="checkbox"/> SAR-145.50 Release to Service <input type="checkbox"/> Other regulation specified in Block 13. Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with SAR 145 and the Air Navigation Order and in respect to that work the items are considered ready for release to service.		
15. Authorized Signature:	16. CAAS Approval No.:	20. Authorized Signature: 		21. CAAS Approval No.: <b>AWI/38</b>	
17. Name (Typed or Printed):	18. Date (dd mmm yyyy):	22. Name (Typed or Printed): <b>Tan Chat Pang</b>		23. Date (dd mmm yyyy): <b>16 OCT 2017</b>	
<b>User / Installer Responsibilities</b>					
1. It is important to understand that the existence of the Certificate alone does not automatically constitute authority to install the part/component/assembly. 2. Where the user/installer works in accordance with the national regulations of an Airworthiness Authority different from the Civil Aviation Authority of Singapore(CAAS), it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the CAAS. 3. Statements 14 and 19 do not constitute installation certification. In all cases, the aircraft maintenance record 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: <b>FAA/United States</b>	<b>AUTHORIZED RELEASE CERTIFICATE</b> <b>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b>			3. Form Tracking Number: 20170003776337Y03 330052918
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4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619		Repair Station FT4Y192M	5. Work Order/Contract/Invoice Number: 10453748 330006248 Page 1 of 1	
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6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status / Work:
001	APU OIL TEMP VALVE	160536-1	1	1508	INSPECTED

12. Remarks:

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:

CMM 49-94-26 Rev 3, DEC/29/2006

UNIT TESTED.

SERIES/ISSUE/AMDTs : 2

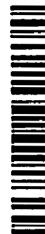
SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

13a. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.	14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation 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.: FT4Y192M
13d. Name (Typed or Printed):	13e. Date(dd/mmm/yyyy):	14d. Name (Typed or Printed): Tan Chat Pang	14e. Date (dd/mmm/yyyy): 16/OCT/2017

**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. Statements 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.

1. Approving Competent Authority/Country  EASA		2. AUTHORISED RELEASE CERTIFICATE  EASA FORM 1				3. Form Tracking Number  20170003776336Y02 330052918
4. Organisation Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619						5. Work Order/Contract/Invoice  10453748  330006248 Page 1 of 1
6. Item	7. Description	8. Part No	9. Qty	10. Serial No.	11. Status/Work	
001	APU OIL TEMP VALVE	160536-1	1	1508	INSPECTED / TESTED	
<b>12. Remarks</b> THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH: CMM 49-94-26 Rev 3, DEC/29/2006 UNIT TESTED. SERIES/ISSUE/AMDTs: 2						
13a. Certifies that the items identified above were manufactured in conformity to: <input type="checkbox"/> approved design data and are in condition for safe operation <input type="checkbox"/> non-approved design data specified in block 12			14a <input checked="" type="checkbox"/> Part-145.A.50 Release to Service <input type="checkbox"/> Other regulation specified in block 12 Certificates that unless otherwise specified in block 12, the work identified in block 11 and described in block 12, was accomplished in accordance with Part-145 and in respect to that work the items are considered ready for release to service.			
13b. Authorised Signature		13c. Approval/Authorisation Number		14b. Authorised Signature 	14c. Certificate/Approval Ref. No EASA.145.0076	
13d. Name		13e. Date (dd mmmm yyyy)		14d. Name Tan Chat Pang	14e. Date (dd mmm yyyy) 16 OCT 2017	
<b>USER/INSTALLER RESPONSIBILITIES</b> This certificate does not automatically constitute authority to install the item(s). Where the user/installer performs work in accordance with regulation of an airworthiness authority different than the airworthiness authority specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts items from the airworthiness authority specified in block 1. Statements 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.						



1. Country <b>SINGAPORE</b>	2. CIVIL AVIATION AUTHORITY OF SINGAPORE <b>AUTHORIZED RELEASE CERTIFICATE</b> <b>CAAS(AW)95</b>				3. Form Tracking Number: 20170003776362Y06 330052974
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619				Repair Station AWI/38	5. Work Order/Contract/Invoice Number: 10453748 330006248 Page 1 of 1
6.Item: 001	7. Description: LUBE CLUSTER	8. Part Number: 4131000-6	9. Eligibility: N/A	10. Quantity: 1	11. Serial / Batch Number: 1668
12. Status / Work: REPAIRED					
13. Remarks : THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH: CMM 49-91-57 Rev 7, SEP/04/2007  HH.DD (HH:MM) CSR 0.00 TSR 0.00 (0:00) SERIES/ISSUE/AMDTS : 2 MODS: NIL					
SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED					
14. NEW PARTS Certificates the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in condition for safe operation <input type="checkbox"/> Non-approved design data specified in Block 13		19. USED PARTS <input checked="" type="checkbox"/> SAR-145.50 Release to Service <input type="checkbox"/> Other regulation specified in Block 13. Certificates that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with SAR 145 and the Air Navigation Order and in respect to that work the items are considered ready for release to service.			
15. Authorized Signature:		16. CAAS Approval No.:	20. Authorized Signature: 	21. CAAS Approval No.: AWI/38	
17. Name (Typed or Printed):		18. Date (dd mmm yyyy):	22. Name (Typed or Printed): Tan Chat Pang	23. Date (dd mmm yyyy): 16 OCT 2017	
<b>User / Installer Responsibilities</b>					
1. It is important to understand that the existence of the Certificate alone does not automatically constitute authority to install the part/component/assembly. 2. Where the user/installer works in accordance with the national regulations of an Airworthiness Authority different from the Civil Aviation Authority of Singapore(CAAS), it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the CAAS. 3. Statements 14 and 19 do not constitute installation certification. In all cases, the aircraft maintenance record must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.					

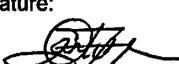
1. Approving Civil Aviation Authority/Country: <b>FAA/United States</b>	<b>AUTHORIZED RELEASE CERTIFICATE</b> <b>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b>			3. Form Tracking Number: 20170003776361Y03 330052974
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619			Repair Station FT4Y192M	5. Work Order/Contract/Invoice Number: 10453748 330006248 Page 1 of 1
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:
001	LUBE CLUSTER	4131000-6	1	1668
11. Status / Work: <b>REPAIRED</b>				

**12. Remarks:**

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:  
CMM 49-91-57 Rev 7, SEP/04/2007

HH.DD (HH:MM)  
CSR 0.00  
TSR 0.00 (0:00)  
SERIES/ISSUE/AMDTS:2  
MODS: NIL

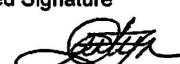
SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

13a. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.	14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation 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.: <b>FT4Y192M</b>
13d. Name (Typed or Printed):	13e. Date(dd/mmm/yyyy):	14d. Name (Typed or Printed): <b>Tan Chat Pang</b>	14e. Date (dd/mmm/yyyy): <b>16/OCT/2017</b>

**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. Statements 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.



1. Approving Competent Authority/Country  EASA		2. AUTHORISED RELEASE CERTIFICATE  EASA FORM 1				3. Form Tracking Number  20170003776360Y02 330052974
4. Organisation Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619						5. Work Order/Contract/Invoice  10453748  330006248 Page 1 of 1
6. Item	7. Description	8. Part No	9. Qty	10. Serial No.	11. Status/Work	
001	LUBE CLUSTER	4131000-6	1	1668	REPAIRED	
<b>12. Remarks</b> THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH: CMM 49-91-57 Rev 7, SEP/04/2007						
<p style="text-align: center;">HH.DD      (HH:MM)</p> <p>CSR      0.00      TSR      0.00      (0:00)      SERIES/ISSUE/AMDTS: 2      MODS: NIL</p>						
13a. Certifies that the items identified above were manufactured in conformity to: <input type="checkbox"/> approved design data and are in condition for safe operation <input type="checkbox"/> non-approved design data specified in block 12			14a <input checked="" type="checkbox"/> Part-145.A.50 Release to Service <input type="checkbox"/> Other regulation 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 Part-145 and in respect to that work the items are considered ready for release to service.			
13b. Authorised Signature		13c. Approval/Authorisation Number		14b. Authorised Signature	14c. Certificate/Approval Ref. No	
					EASA.145.0076	
13d. Name		13e. Date (dd mmm yyyy)		14d. Name	14e. Date (dd mmm yyyy)	
				Tan Chat Pang	16 OCT 2017	
<b>USER/INSTALLER RESPONSIBILITIES</b> This certificate does not automatically constitute authority to install the item(s). Where the user/installer performs work in accordance with regulation of an airworthiness authority different than the airworthiness authority specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts items from the airworthiness authority specified in block 1. Statements 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.						



1. Country <b>SINGAPORE</b>	2. CIVIL AVIATION AUTHORITY OF SINGAPORE <b>AUTHORIZED RELEASE CERTIFICATE</b> <b>CAAS(AW)95</b>				3. Form Tracking Number: 20170003776371Y06 330053804
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619				Repair Station AWI/38	5. Work Order/Contract/Invoice Number: 10453748 330006248 Page 1 of 1
6.Item:	7. Description: <b>001 VALVE CHECK, APU</b>	8. Part Number: <b>3202854-1</b>	9. Eligibility: <b>N/A</b>	10. Quantity: <b>1</b>	11. Serial / Batch Number: <b>1401</b>
12. Status / Work: <b>REPAIRED</b>					
13. Remarks : THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH: CMM 49-53-69 Rev 0, MAY/31/2001 ORI W01053 Rev -, MAR/20/2009  HH.DD (HH:MM) CSR 0.00 TSR 0.00 (0:00)					
SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED					
14. NEW PARTS Certificates the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in condition for safe operation <input type="checkbox"/> Non-approved design data specified in Block 13			19. USED PARTS <input checked="" type="checkbox"/> SAR-145.50 Release to Service <input type="checkbox"/> Other regulation specified in Block 13. Certificates that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with SAR 145 and the Air Navigation Order and in respect to that work the items are considered ready for release to service.		
15. Authorized Signature:	16. CAAS Approval No.:	20. Authorized Signature:	21. CAAS Approval No.: <b>AWI/38</b>		
17. Name (Typed or Printed):	18. Date (dd mmm yyyy):	22. Name (Typed or Printed): <b>Tan Chat Pang</b>	23. Date (dd mmm yyyy): <b>16 OCT 2017</b>		
<b>User / Installer Responsibilities</b>					
1. It is important to understand that the existence of the Certificate alone does not automatically constitute authority to install the part/component/assembly. 2. Where the user/installer works in accordance with the national regulations of an Airworthiness Authority different from the Civil Aviation Authority of Singapore(CAAS), it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the CAAS. 3. Statements 14 and 19 do not constitute installation certification. In all cases, the aircraft maintenance record 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: <b>FAA/United States</b>	<b>AUTHORIZED RELEASE CERTIFICATE</b> <b>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b>				3. Form Tracking Number: 20170003776370Y03 330053804
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619				Repair Station FT4Y192M	5. Work Order/Contract/Invoice Number: 10453748 330006248 Page 1 of 1
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status / Work:
001	VALVE CHECK, APU	3202854-1	1	1401	REPAIRED

**12. Remarks:**

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:

CMM 49-53-69 Rev 0, MAY/31/2001

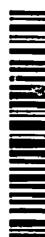
ORI W01053 Rev -, MAR/20/2009

HH.DD (HH:MM)  
CSR 0.00  
TSR 0.00 (0:00)

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

13a. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.	14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation 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.:
13d. Name (Typed or Printed):	13e. Date(dd/mmm/yyyy):
<b>User / Installer Responsibilities</b>	
<p>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. Statements 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.</p>	

1. Approving Competent Authority/Country  EASA	2. <b>AUTHORISED RELEASE CERTIFICATE</b>  <b>EASA FORM 1</b>				3. Form Tracking Number  20170003776369Y02 330053804
4. Organisation Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619				5. Work Order/Contract/Invoice  10453748  330006248 Page 1 of 1	
6. Item	7. Description	8. Part No	9. Qty	10. Serial No.	11. Status/Work
001	VALVE CHECK, APU	3202854-1	1	1401	REPAIRED
<b>12. Remarks</b> THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH: CMM 49-53-69 Rev 0, MAY/31/2001 ORI W01053 Rev -, MAR/20/2009					
<p style="text-align: center;">HH.DD      (HH:MM)</p> <p>CSR      0.00 TSR      0.00      (0:00)</p>					
13a. Certifies that the items identified above were manufactured in conformity to: <input type="checkbox"/> approved design data and are in condition for safe operation <input type="checkbox"/> non-approved design data specified in block 12			14a <input checked="" type="checkbox"/> Part-145.A.50 Release to Service <input type="checkbox"/> Other regulation 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 Part-145 and in respect to that work the items are considered ready for release to service.		
13b. Authorised Signature		13c. Approval/Authorisation Number	14b. Authorised Signature	14c. Certificate/Approval Ref. No  EASA.145.0076	
13d. Name		13e. Date (dd mmmm yyyy)	14d. Name  Tan Chat Pang	14e. Date (dd mmmm yyyy)  16 OCT 2017	
<b>USER/INSTALLER RESPONSIBILITIES</b> This certificate does not automatically constitute authority to install the item(s).  Where the user/installer performs work in accordance with regulation of an airworthiness authority different than the airworthiness authority specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts items from the airworthiness authority specified in block 1.  Statements 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.					



1. Approving Civil Aviation Authority/Country: <b>FAA/United States</b>	2. <b>AUTHORIZED RELEASE CERTIFICATE</b> <b>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b>			3. Form Tracking Number: 20170003709523Y14 9001534777-10
4. Organization Name and Address: HONEYWELL INTERNATIONAL INC Production Approval 1720 East Grant Street PT1222NM PHOENIX AZ 85034			5. Work Order/Contract/Invoice Number: 4207587507-000010 Page 1 of 1	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:
001	SENSOR, TEMPERATURE	70722134-1	6	N/A
11. Status / Work: NEW				


**12. Remarks:**
**AIRWORTHINESS APPROVAL.**

THIS SENSOR, TEMPERATURE IS A SUBCOMPONENT OF A TSO AUTHORIZATION.  
 SERIALIZATION NOT REFERENCED IN BLOCK 10 IS NOT REQUIRED OR TRACEABLE BY  
 HONEYWELL INTERNATIONAL INC. REFERENCE FAA ORDER 8130.21

13a. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.	14a. <input type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 12 <small>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.</small>		
13b. Authorized Signature: 	13c. Approval/Authorization No.: <b>ODA-602216-NM</b>	14b. Authorized Signature:	14c. Approval/Certificate No.:
13d. Name (Typed or Printed): <b>Monica Hughes</b>	13e. Date (dd/mmm/yyyy): <b>29/SEP/2017</b>	14d. Name (Typed or Printed):	14e. Date(dd/mmm/yyyy):

**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. Statements 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.

NSN : 0052 - 00 - 012 - 8005

1. Approving Civil Aviation Authority/Country: <b>FAA/United States</b>	2. <b>AUTHORIZED RELEASE CERTIFICATE</b> <b>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b>			3. Form Tracking Number: 20170003679838Y14 9001519870-10	
4. Organization Name and Address: HONEYWELL INTERNATIONAL INC Production Approval 1720 East Grant Street PT1222NM PHOENIX AZ 85034			5. Work Order/Contract/Invoice Number: 4207577675-000010 Page 1 of 1		
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status / Work:
001	IGNITOR PLUG, LOW VOLTAGE	3888267-7	4	N/A	NEW

**12. Remarks:**

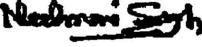
AIRWORTHINESS APPROVAL.  
THIS IGNITOR PLUG, LOW VOLTAGE IS A SUBCOMPONENT OF A TSO AUTHORIZATION.  
SERIALIZATION NOT REFERENCED IN BLOCK 10 IS NOT REQUIRED OR TRACEABLE BY  
HONEYWELL INTERNATIONAL INC. REFERENCE FAA ORDER 8130.21

13a. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.		14a. <input type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation 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: <i>Margo Marion</i>	13c. Approval/Authorization No.: ODA-602216-NM	14b. Authorized Signature:	14c. Approval/Certificate No.:
13d. Name (Typed or Printed): Margo Marion	13e. Date (dd/mmm/yyyy): 25/SEP/2017	14d. Name (Typed or Printed):	14e. Date(dd/mmm/yyyy):

**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. Statements 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.



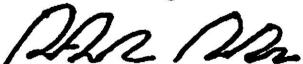
1. Approving Civil Aviation Authority/Country: <b>FAA/United States</b>	2. <b>AUTHORIZED RELEASE CERTIFICATE</b> <b>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b>			3. Form Tracking Number: 20170003747692Y14 9001538389-80001
4. Organization Name and Address: Honeywell International Inc. 111 S. 34th Street Phoenix, Arizona 85072		Production Approval PT1222NM	Honeywell International Inc. Units 2-4, Chevron, Eaton Road Hemel Hempstead, HP2 7UB UNITED KINGDOM	5. Work Order/Contract/Invoice Number: 4705213717-000010 Page 1 of 1
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:
001	VALVE, BY-PASS	4132029-3	1	N/A
11. Status / Work: <b>NEW</b>				
<b>12. Remarks:</b> AIRWORTHINESS APPROVAL. THIS VALVE, BY-PASS IS A SUBCOMPONENT OF A TSO AUTHORIZATION. SERIALIZATION NOT REFERENCED IN BLOCK 10 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC. REFERENCE FAA ORDER 8130.21				
BATCH NUMBER: 0004794647				
13a. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.		14a. <input type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation 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.: <b>ODA-602216-NM</b>	14b. Authorized Signature:	14c. Approval/Certificate No.:
13d. Name (Typed or Printed): <b>Neelmani Singh</b>		13e. Date (dd/mmm/yyyy): <b>09/OCT/2017</b>	14d. Name (Typed or Printed):	14e. Date(dd/mmm/yyyy):

#### 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. Statements 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.

NSN : 0052 - 00 - 012 - 9005



1. Approving Civil Aviation Authority/Country: <b>FAA/United States</b>	2. <b>AUTHORIZED RELEASE CERTIFICATE</b> <b>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b>			3. Form Tracking Number: 20170003723800Y14 9001541024-80008
4. Organization Name and Address: Honeywell International Inc. 111 S. 34th Street Phoenix, Arizona 85072		Production Approval PT1222NM	Honeywell International Inc. Units 2-4, Chevron, Eaton Road Hemel Hempstead, HP2 7UB UNITED KINGDOM	5. Work Order/Contract/Invoice Number: 4705215740-000010 Page 1 of 1
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:
001	DIFFERENTIAL PRESS TRANSDUCER	3876219-2	2	1715047182602 See Continuation
11. Status / Work: NEW				
<b>12. Remarks:</b> AIRWORTHINESS APPROVAL. THIS DIFFERENTIAL PRESS TRANSDUCER IS A SUBCOMPONENT OF A TSO AUTHORIZATION. Block 10 Serial Number(s): (Continued) : 1715047182601.				
13a. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.		14a. <input type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation 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.: ODA-602216-NM	14b. Authorized Signature: 	14c. Approval/Certificate No.: 	
13d. Name (Typed or Printed): Anthony Marzec	13e. Date (dd/mmm/yyyy): 03/OCT/2017	14d. Name (Typed or Printed): 	14e. Date(dd/mmm/yyyy): 	

#### 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. Statements 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.



1. Approving Civil Aviation Authority/Country: <b>FAA/United States</b>	2. <b>AUTHORIZED RELEASE CERTIFICATE</b> <b>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b>			3. Form Tracking Number: 20170003741857Y14 9001547655-80012
4. Organization Name and Address: Honeywell International Inc. 111 S. 34th Street Phoenix, Arizona 85072		Production Approval PT1222NM	Honeywell International Inc. Units 2-4, Chevron, Eaton Road Hemel Hempstead, HP2 7UB UNITED KINGDOM	5. Work Order/Contract/Invoice Number: 4705221083-000010 Page 1 of 1
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:
001	FILTER, GEN.	4132030-3	1	N/A
11. Status / Work: NEW				
<b>12. Remarks:</b> AIRWORTHINESS APPROVAL. THIS FILTER, GEN. IS A SUBCOMPONENT OF A TSO AUTHORIZATION. SERIALIZATION NOT REFERENCED IN BLOCK 10 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC. REFERENCE FAA ORDER 8130.21				
BATCH NUMBER: 0004992143				
13a. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.		14a. <input type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation 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:  <i>S. Foulger</i>	13c. Approval/Authorization No.:  ODA-602216-NM	14b. Authorized Signature:	14c. Approval/Certificate No.:	
13d. Name (Typed or Printed): Stephen Foulger	13e. Date (dd/mmm/yyyy): 06/OCT/2017	14d. Name (Typed or Printed):	14e. Date(dd/mmm/yyyy):	

#### 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. Statements 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.

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