

1. Approving Competent Authority/Country  EASA		2.  <b>AUTHORISED RELEASE CERTIFICATE</b>  <b>EASA FORM 1</b>			3. Form Tracking Number 201700037822 i 02 330005518
4. Organisation Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gui Circle) 161 Gui 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.  <div style="text-align: right;">See continuation page</div>					
Items that the items identified above were manufactured in conformity to: approved design data and are in condition for safe operation non-approved data specified in block 12			14a 621 Part-145.A.50 Release to Service D 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			14b. Authorised Signature		14c. Certificate/Approval Ref. No
					EASA.145.0076
113d. Na	13e. Date (dd mmm yyyy)	14d. Name		14e. Date (dd mmm yyyy)	
		Tan Chat Pang		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</b> <b>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b>		3. Form Tracking Number: 20170003782292Y03-T 330005518	
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gui Circle) 161 Gui Circle Singapore 629619				Repair Station Ff4Y192M	
				5. Work Order/Contract/Invoice Number: 10453748 330006248 Page 1 of 2	
6. Item:	7. Description:	8. Part Number:	9. auanr	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 GTCF331-500-G16-R.7 ATTACHED FOR LIFE LIMITED PARTS. REFER TO SERVICE BULLETIN COMPLIANCE ATTACHED FOR ALL SERVICE BULLETINS COMPLIANCE. <b>TEXT CONTINUED ON RIGHT SIDE</b>  SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED			<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). APO PRESERVATION AND STORAGE FOR A PERIOD OF UP TO 24 MONTHS AS PER SB 49-7997 REVS, REV DATE FEB/ 3/2017. SHIP LESS: STARTER MOTOR PROTECTOR P/N: 2709968-1, GENERATOR BLANK coK R P/N: 3862212-3.  <div style="text-align: right;"><b>See Continuation page</b></div>		
13a. Certifies that the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> <b>D</b> ed design data and are in a condition for safe operation. <input type="checkbox"/> <b>D</b> Non-approved design data specified in Block 12.			14a. <input checked="" type="checkbox"/> <b>D</b> 14 CFR 43.9 Return to Service <input type="checkbox"/> <b>D</b> 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:	
				<div style="text-align: center;"> w  .a ac  <u>H</u> <u>le</u> </div>	
13d. Name (Typed or Printed):		13e. Date(dd/mmm/yyyy):		14c. Approval/Certificate No.:	
				<b>FT4Y192M</b>	
14d. Name (Typed or Printed):		14e. Date (dd/mmm/yyyy):			
<b>Ta Chat Pang</b>		<b>17/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.					

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. <b>CIVIL AVIATION AUTHORITY OF SINGAPORE AUTHORIZED RELEASE CERTIFICATE CAAS(AW)95</b>				3. Form Tracking Number: P:1 20170003782293Y06 330005518	
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gui Circle) 161 Gui Circle Singapore 629619 Repair Station AWI/38						5. Work Order/Contract/Invoice Number: 10453748 330006248 Page 1 of 2	
6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial / Batch Number:	12. Status/ Work:	
001	ENGINE OUTLINE GAS TURBINE	3800550-1	N/A	1	P-2273	OVERHAULED	
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. <b>TEXT CONTINUED ON RIGHT SIDE</b>  SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED							
<div style="display: flex; justify-content: space-between;"> <div> <b>NEW PARTS</b>  Certifies items identified above were manufactured in conformity to:  <input type="checkbox"/> Design data and are in condition for safe operation  <input type="checkbox"/> Non-approved data specified in Block 13 </div> <div> <b>19. USED PARTS</b>  SAR-145.50 Release to Service <b>D</b> Other regulation specified in Block 13.  Certified at unless otherwise specified in Block 13, the work identified in Block 12 a d. 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. </div> </div>							
15. Authorized Signature:			Approval No.:		20. Authorized Signature:		21. CAAS Approval No.:
					 -S-75		<b>AWI/38</b>
17. Name (Printed):		118. Date (dd mmm yyyy)		122. Name (Typed or Printed):		23. Date (dd mmm yyyy):	
				Tan Chat Pang		17 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.							

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

## GTCP 331-500[8] PERFORMANCE DATA SHEET

NOTIFICATION NUMBER		330005518		SERVICE ORDER :		5011527375	
APU MODEL		GTCP331-500(BI)		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	
FUEL INLET PRESSURE		PSIG		25.5		20.8	
OIL PUMP DISCHARGE PRESSURE		PSIG		64.6		63.5	
OIL PUMP DISCHARGE TEMPERATURE		°F		160		163	
GEARBOX PRESSURE		PSIA		14.96		14.89	
COMPRESSOR INLET TEMPERATURE		MEASURED °F		96.5		99.2	
APU INLET TEMPERATURE (T2) (ARINC)		°F		101.5		103.7	
TURBINE DISCHARGE TEMPERATURE (UNIT RAKES)		UPPER (EGT 1) °F		717.4		1063.9	
		LOWER (EGT 2) °F		725.3		1076.7	
EXHAUST GAS TOTAL TEMPERATURE (LA)		MEASURED °F		739.3		1075.6	
		CORRECTED °F		1100.6		1103.4	
ORIFICE INLET AIR PRESSURE		"Hg				75.6	
ORIFICE INLET TEMPERATURE		°F				410.5	
ORIFICE DELTA PRESSURE						59.92	
IGV POSITION" (IGVPOS)		DEGREES				12.5	
IGV PERFORMANCE ADJ (IGVPERADJ)		DEGREES				5.0	
BLEED AIRFLOW		ACTUAL LBS/MIN				474.86	
		CORRECTED LBS/MIN				470.8	
RESTRICTED AIRFLOW (DISC. CORR. FLOW)		LBS/MIN				166.88	
BLEED AIR TOTAL PRESSURE		INDICATED PSIA				54.5	
		CORRECTED PSIA				54.2	
BLEED AIR TOTAL TEMPERATURE		INDICATED °F				420.7	
		CORRECTED °F				424.6	
UNIT VIBRATION		ACCESSORY IN/SEC		0.23		0.14	
		TURBINE IN/SEC		0.34		0.36	
TURBINE WHEEL SPEED		RPM		39041		39041	
SHAFT LOAD		APPLIED SHP				179.3	
		CORRECTED SHP				180.7	
FUEL CONSUMPTION		INDICATED LBS/HR		336.8		626	
		CORRECTED LBS/HR				628.00	

TEST TECHNICIAN

Stamp & Sign

DATE

16-Oct-2017

QUALITY CONTROL

DATE

Stamp & Sign

12 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

**TSO:** 0:00

**CSO:** 0

**NOTIFICATION NO:** 330005518

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					
DISKPARTNO	3842152-1		-	7184:03	4819	27000	OVERHAULED
2ND T-WHEEL ASSY	3842155-4	12-168522-01912					
DISKPARTNO	3842156-1		-	7184:03	4819	27000	OVERHAULED
3RD T-WHEEL ASSY	3842160-6	12-156101-09303	-	7184:03	4819	27000	OVERHAULED

**APU ACCESSORIES RECORD/NOC**

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 SIN: 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	-F: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/BOXASSY	3805034-11	P-1401	-	-	MODIFIED/ REPAIRED
DRIVEN COMP	3804011-10	P-1398	-	-	OVERHAULED
COMP MODULE	3826980-13	P-1394	-	-	OVERHAULED
TURBMODULE	3844517-7	P-1393	-	-	OVERHAULED
OIL LEVEL SENSOR	3876211-3	-	-	-	VISUAL INSPECTED/ TESTED (ALTERNATE OUTGOING SIN: 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:

FORM: GTCP331-500B-G16-R.7 (ddmmw 290615)



ENGINE MODEL: 331-500B		<b>SERVICE RECORD</b>		PAGE: 1 of 1	
ENGINE SERIAL NUMBER: P-2273		SERVIC E_BUL_IETJN COM_PLI NCE			
CUSTOMER: SINGAPORE AIRLINES LTD					
REPAIR ORDER: 000330006248					
"MODL1LE: ENGINE					
.PART: 3800550-1					
"\$SERVICE BULLETIN	REV	DESCRIPTION	ACCOMP	WHEN ACCOMP	Recurring
331-49-7870	0	AIRBORNE AUXILIARY POWER - GAS TURBINEE	Complied VVith	16/OCT/2017	
331-49-8137	0	AIRBORNE AUXILIARY POWER - GAS TURBINEE	Complied VVith	16/OCT/2017	
331-49-8138	0	AIRBORNE AUXILIARY POWER - GAS TURBINEE	Complied VVith	16/OCT/2017	
331-49-8141	0	AIRBORNE AUXILIARY POWER - GAS TURBINEE	Complied VVith	16/OCT/2017	
331-49-8170	0	AIRBORNE AUXILIARY POWER - GAS TURBINEE	Complied VVith	16/OCT/2017	
331-49-8179	1	AIRBORNE AUXILIARY POWER - GAS TURBINEE	Complied VVith	16/OCT/2017	
331-49-8180	1	AIRBORNE AUXILIARY POWER - GAS TURBINEE	Complied VVith	16/OCT/2017	
331-49-8187	0	AIRBORNE AUXILIARY POWER - GAS TURBINEE	Complied VVith	16 OCT 2017	
49-7997	5	AIRBORNE AUXILIARY POWER - GAS TURBINEE	Complied With	16 OCT 2017	

Honeywell Aerospace Singapore Pte Ltd INSPECTOR SIGNATUREcfll.---: REPAIR STATION # FAA-EASA-CAAS-CAAC-JCAB

DATE:

17 OCT 2017

DATE	ACCUMU- LATED ENGINE HOURS HH.DD (HH:MM)	ACCUMU- LATED ENGINE CYCLES	ENGINE SERVICE RECORD REMARKS, INSPECTIONS, REPAIRS, AND ADJUSTMENTS		PAGE : 1 of 1																		
1.(S/OCT/2017	TSN TSO 7184.05 0.00 (7184:03) (0:00)	CSN CSO 4819 0	P/N 3800550-1 S/N P-2273 Model 331-5008 Series 62 Customer PO 10453748																				
			DESCRIPTION OF WORK PERFORMED 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><tr><td>MANUALS</td><td>REV</td><td>DATED</td></tr><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></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																					
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																					
			INSPECTIONS COMPLIED WITH: AS ABOVE																				
			SERVICE BULLETINS COMPLIED WITH: SEE SERVICE BULLETIN LIS"																				
			PARTS REPAIRED OR REPLACED THIS VISIT: SEE TRACE INPUT PAGE																				
			NOC / LIFE LIMITED PARTS: SEE NOC/ 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 SIGNATUR --

DATE:

17 OCT 2017

Note: APU on release after testcell runs.  
The TSN/CSN is as follows:  
  
TSN:.\_7/\_J'\_6\_:.\_CJ\_2\_HRS  
  
CSN: \_\_-#\_R\_d\_5\_\_ CYCLES



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



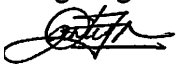
**IA/CREON:**  
**APU SIN:** - :i. 73  
**STATION:**  
**DATE:** 17 OCT 2017

**SIA SI NO: 1B7774900013 REPLACEMENT OF FUEL (ETOPS) NOZZLES**

ITEM	DESCRIPTION OF WORK	APPLICABLE SECTION	Date	Stamp/Sign
	<p>COHPL:IANCB :</p> <p>DOITIAL: AT APU TS::I OP 2000 APU HRS DURING JIFINGAR  CI,JiCIC ONLY.</p> <p><u>EAT</u> f <u>IIQ_9 J li _ D I-</u> <u>qIBCK</u> ON I-</p> <p>ROTE :</p> <p>THE Al:R.F.RAMB-APU HOCR UrIO lS DEPENDBN'l' ON nm  AI:RCRAFr SBR:IES ON MB!CH Tim Al?U IS FITTED TO,  <b>SO*</b> - 1 AIRFR»IB (mt)R a .ISG APiJ B0111tS  SR" • 1. J.\IR:r'R»!B KOOR a 0,80 Al?U BOURS  SV* - 1 AIRF.R.»IB ROUR - 0.52 A U ROURS  J.W* • J .IU'RFRAMJI HOOR .., 0. 3;t, Al"O H0tr:U;  SY* - 1. AIRF H :four • 0.75 Al?U HOv S</p> <p>TlCRH.!!lATING AC'11ON:  TO BE ISWBD IN TWO YEARS.</p> <p>RBPBQEb!CDG :</p> <p>E:YW11:LL 33:1. •5008 Al?U MSA, CUS %SBt&gt; WORJ&lt;SCOP2.</p> <p>P.!7RCTJ:VJ:rY" !  ALL 8777 HONEYW11t.L GTC1?331-500 APO.</p> <p>DJ:SC:OSS!ON:  <b>HONEYWELL 331-500B MSA REQUIREMENT.</b></p>	NA	NA	NA



nns 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 WITHAMM TASK49-13-03 (PG401)- FUEL NOZZLES REMOVAL/INST ALLAITON. SEND FUEL NOZZLES OUTHUSE FOR REFURBISH1\1ENT.	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.				
<div>Page Sign/Stamp Off</div> <div></div> <div>Date Completed</div> <div>17 OCT 2017</div>				



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

Sin	Part No	Serial No	Position
1	g9lltck1-\	1 11	t
2	t S..Af ':lr-I	l.A b1!f- •	..:)
3	t 1 \t t-t	j o C	
4	i 1 \t k- t-(	k k.l t !--ql '	lt
5	l U'c- -t	i t lf tl	
6	R i ,_{	AA1 ot C	!
7	---- lt r--f	! e )-	t
8	t i.t l ,_1	i 1lt 4	R
9	\.i 1t	A.A-&. c ft	G'
10	i ltk -l	l A-tL\<T trg?	b
11	q, t tt.k- -J	t lA'7 t 9	U
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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/CREON:  
 APU SIN: 0-2273  
 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	17 OCT 2017	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	17 OCT 2017	HONEYWELL (S) DISY 20
3	Perform an inspection of the APU Plenum drain. a) Examine the drain tube for corrosion.	Receiving	17 OCT 2017	HONEYWELL (S) DISY 20
	b) Push lockwire through the Plenum drain outlet to ensure it is not clogged.	Receiving	17 OCT 2017	HONEYWELL (S) DISY 20
4	a) Remove, drain, inspect and install the APU Combustor drain valve.	Final Assembly	13 OCT 2017	HONEYWELL (S) ASSY 69
	b) Functional check APU combustor drain valve.	Accessories	17 OCT 2017	HONEYWELL (S) ACC 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	17 OCT 2017	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	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	6 OCT 2017	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	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	2 OCT 2017	
<b>5-APU IGNITION/ STARTING SYSTEM</b>				
1	Remove and replace both igniter plugs on the APU.	Final Assembly	4 OCT 2017	
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	
3	Inspect electric starter clutch PIN: 3503876-5 and Air turbine starter installation of lockbolts using inspection tool (inspection with clutch installed in APU) PIN: PMAT2660 as per Honeywell SB 331-49-7556.	Final Assembly	14 OCT 2017	
<b>6- APU EXHAUST SYSTEM</b>				
1	Inspect EGT Thermocouple and harness for condition and security of installation.	Final Assembly	14 OCT 2011	69J
<b>7-APU INDICATING SYSTEM</b>				
1	Inspect the Data Memory Module for condition and security of installation.	Final Assembly	14 OCT	2011
<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 connect to all electrical components for condition, cleanliness and security.	Final Assembly	14 OCT	2011
2	Inspect all the quick release fastener cable clamp for condition and security.	Final Assembly	4 OCT	2011
3	Inspect all electrical components for condition, cleanliness and security.	Final Assembly	4 OCT	2017
<b>9- APU COMPONENTS</b>				
Inspect the following APU system components for condition and security:-				
<b>APU CONTROL SYSTEM</b>				
a)	Inspect both the speed sensors on the APU for condition and security of installation..	Final Assembly	14 OCT 2017	
b)	Inspect the APU inlet temperature sensor for condition and security of installation.	Final Assembly	4 OCT 2017	
2	APU Air inlet system components including the air inlet Plenum flange seal.	Final Assembly	4 OCT 2017	17
3	APU drains and associated tubes.	Final Assembly	14 OCT 2017	
4	Accessory drive gearbox and gearbox mounted components.	Final Assembly	14 OCT 2017	
5	<b>APU Lubrication system components:</b>			
a)	APU 'LUBE' Cluster	Final Assembly	14 OCT 2017	
b)	Components outside the 'LUBE' Cluster:- Filter Bypass valve and indicating switches, oil and Generator scavenge filters, Low oil pressure switch, oil pressure sensor, oil temperature sensors and Thermostatic Bypass valve.	Final Assembly	14 OCT 2017	

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

9 - APU COMPONENTS-cont'd...			
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  
	d) AIR/ OIL Cooler.	Final Assembly	14 OCT 2017  
	e) APU Oil Heater system components.		14 OCT 2017  
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  
	b) Fuel manifolds and nozzles	Final Assembly	14 OCT 2017  
7	a) APU ignition cluster containing the igniter plugs, ignition leads and the ignition unit.	Final Assembly	14 OCT 2017  
	b) Electric Starter Motor, Electric Starter Clutch, Air Turbine Starter, Air Turbine Starter Clutch and Air Turbine Starter Control Valve --- (ATS-CV) ---	Final Assembly	14 OCT 2017  
8	<b>APU Exhaust System components.</b>		14 OCT 2017  
9	a) APU Pneumatic Cluster containing inlet pressure sensor, Total pressure sensor, Differential Pressure sensor and surge control valve.	Final Assembly	14 OCT 2017  
	b) Inspect the APU Delta pressure transducer PIN: 3876219-2 for the following:		12/10/2017  
	i) Manufacturing date code or Sept 1997 or later Or	Accessories	12/10/2017  
	ii) Final test stamp (rectangular in shape, displaying "FT" and number "363" Or	Final Assembly	14 OCT 2017  
	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  
	C) Air Supply System Components including Inlet Guide Vanes (IGV), Inlet Guide Vane Actuator, APU Check Valve, Surge duct, pneumatic ducting and plumbing.	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.

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	
4. Organisation Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gui Circle) 161 Gui 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, 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  TSN            HH.DD            ,(HH:MM) 7184.05       ('7184:03) CSN        4819.00 TSO           0.00            (0:00) CSO           0.00						
13a. Items that the items identified above were manufactured in conformity to:  design data and are in condition for safe operation non-approved            data specified in block 12			14a. 1;21 Part-145.A.50 Release to Service D 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			14b. Authorised Signature		14c. Certificate/Approval R f. No  EASA.145. 0076	
13c. Date (dd mmm yyyy) 13 OCT 2017			14d. Name  Chou Nyee Hoong		14e. Date (dd mmm yyyy)  13 OCT 2017	
USER/INSTALLER RESPONSIBILITY 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: 20170003746660Y03-330054959	
4. Organization Name and address: Honeywell Aerospace Singapore Pte Ltd (Gui Circle) 161 Gui 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	IMPELLER, LOAFCOMPRESSOR	3822612-1	1	13-182449-08188	OVERHAULED	
12. Remarks: THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH: IRM 49-24-79 Rev 9, PR/29/2016  TSN            HH.DD            (HH:MM) 7184.05        (7184:03) CSN            4819.00 TSO            0.00            (0:00) CSO            0.00  SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED  <div><div><div>Unless the items identified above were manufactured in conformity to: D        ved design: data and are in a condition for safe operation. D        Non-approved. Sign data specified in Block 12.</div><div>14a.        14 CFR 43.9 Return to Service    D        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.</div></div><div><div>13b. Authorized Signature:</div><div>13c. Approval/Authorization No.:</div><div>13d. Name (Typed or Printed):</div><div>13e. Date(dd/mmm/yyyy):</div></div><div><div>14b. Authorized Signature: </div><div>14c. Approval/Certificate No.: <b>FT4Y192M</b></div><div>14d. Name (Typed or Printed): <b>Chou Nyee Hoong</b></div><div>14e. Date (dd/mmm/yyyy): <b>09/OCT/2017</b></div></div></div>						

**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</b> <b>AUTHORIZED RELEASE CERTIFICATE</b> <b>CAAS(AW)qs</b>			3. Form Tracking Number -2011000314ass1voa <u>330054959</u>	
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gui Circle) 161 Gui 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	IMPELLER, LOAD COMPRESSOR	3822612-1	N/A		13-182449-08188	OVERHAULED

13. 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

<p>1. <b>WPARTS</b></p> <p>Certifies that items identified above were manufactured in conformity to:</p> <p> Appro design data and are in condition for safe operation</p> <p>No. <u>Approved design data specified in Block 13</u></p>	<p>19. <b>USED PARTS</b></p> <p>SAR-145.50 Release to Service <input checked="" type="checkbox"/> Other regulation specified in Block 13.</p> <p>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.</p>
<p>15. Authorized Signature:</p>	<p>16. CAAS Approval No.:</p>
<p>17. Name (Typed or Printed):</p>	<p>18. Date (dd mmm yyyy):</p>

<p>20. Authorized Signature:</p> <p style="text-align: center;"> </p>	<p>21. CAAS Approval No.:</p> <p style="text-align: center;"><b>AWI/38</b></p>
<p>22. Name (Typed or Printed):</p> <p style="text-align: center;">Chou <b>Nyee</b> Hoong</p>	<p>23. Date (dd mmm yyyy):</p> <p style="text-align: center;">09 OCT 2017</p>

**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/component (if 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.

## - Honeywell

Repair Station #

FAA-EASA-CAAS-CAAC-JCAB

<b>Repair Order:</b> 2017-005011544482-001 330054959		<b>Customer:</b> 303815 SINGAPORE AIRLINES LTD	
<b>Customer P/O:</b> 10453748		<b>Orig Cust:</b>	
<b>Part Number:</b> 3822612-1	<b>Part Desc:</b> IMPELLER, LOAD COMPRESSOR	<b>Serial No:</b> 13-182449-08188	
<b>Mods:</b>			
<b>Series/Issue/Amdts:</b>			
<b>Quantity:</b> 1	<b>Received Date:</b>		<b>Date off:</b>
<b>Aircraft tail#:</b>	<b>Aircraft 5/N#:</b>	<b>Date on:</b>	<b>Date off:</b>
<b>Model#:</b> APU 331-500/600	<b>Engine 5/N:</b>	<b>Alternate S/N:</b>	
<b>TIMES/CYCLES</b> ifitTe:SM&ew.:.....,3WJ	<b>HH.DD (HH:MM)</b> 7184.0s (7184:03)	<b>11 '-'iM:t•ili,i:wilm 4819.00</b> ltii.ii::s.ini ii.t.Jauii&i&i!	
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## Overhaul

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## 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
<p>1. Inspected and tested the engine, transmission, and suspension components.</p> <p>2. Replaced the oil and filter.</p> <p>3. Checked the brake pads and rotors.</p> <p>4. Inspected the tires and recommended a rotation.</p> <p>5. Checked the fluid levels (coolant, brake, and power steering).</p> <p>6. Performed a safety inspection.</p>	<p>Customer's car is running well. No major issues found.</p> <p>Next service recommended in 5,000 miles or 6 months.</p>

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UNIT OVERHAULED JAW IRM.

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

### Action Taken Code

## Overhaul

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ill!i!tiJ6iftfjjJJtM5l l i R tmbtttl

**Honeywell**

**Commercial**  
**Repair Station #**

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

FAA-EASA-CAAS-CAAC-JCAB

**Confiauration And Findings Evaluation**

<b>Repair Order:</b> 2017-005011544482-001 330054959	<b>Customer:</b> 303815 SINGAPORE AIRLINES LTD	
<b>Customer P/O:</b> 10453748	<b>Orig Cust:</b>	
<b>Part Number:</b> 3822612-1	<b>Part Desc:</b> IMPELLER, LOAD COMPRESSOR	<b>Serial No:</b> 13-182449-08188
<b>Mods:</b>		
<b>Series/Issue/Amdts:</b>		
<b>Quantity</b> 1	<b>Ship Date:</b>	<b>Received pate:</b>

**FINAL CONFIGURATION**

**Part No:** 3822612-1

| || 11111 m || |

**S/N:** 13-182449-08188



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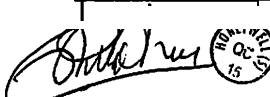
**Series/Issues/A.mdts:**

**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 20110003746072Y02 330055685	
4. Organisation Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gui Circle) 161 Gui 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	11.	13-182449-08502	OVERHAULED	
12. Remarks THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH: IRM 49-24-79 Rev 9, 15 JAN 2016  <div style="display: flex; justify-content: space-between;"> <div> TSN        HH.DD        (HH:MM)  CSN        7184.05     ( 184:03)  TSO        4819.00  CSO        0.00        (0:00)  CSO        0.00 </div> <div></div> </div>						
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 data specified in block 12			14a. Part-145.A.50 Release to Service     D 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 RESPONSIBILITY</b> This certificate does not automatically confer 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: 20170003746076YQ3, 330055685																
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gui Circle) 161 Gui 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	IMPELLER, COMRESSOR FIRST STAGE	3822611-1	1	13-182449-08502	OVERHAULED																
12. Remarks: THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH: IRM 49-24-79 Rev 9, APR/29/2016  <table border="1"> <thead> <tr> <th></th> <th>HH.DD</th> <th>(HH:MM)</th> </tr> </thead> <tbody> <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> </tbody> </table> SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED								HH.DD	(HH:MM)	TSN	7184.05	(7184:03)	CSN	4819.00		TSO	0.00	(0:00)	CSO	0.00	
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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):															
				Chou Nyee Hoong		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 the 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: 20170003746071Y06 330055685	
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gui Circle) 161 Gui Circle Singapore 629619						Repair Station AW1/38	
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	IMPELLER, COMPRESSOR FIRST STAGE	3822611-1	N/A	1	13-182449-08502	OVERHAULED	
13. Remarks: THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH: IRM 49-24-79 Rev 9, APR/29/2016  <div> <div>HH:DD</div> <div>(HH:MM)</div> <div>TSN</div> <div>7184.05</div> <div>(7184:03)</div> <div>CSN</div> <div>4819.00</div> <div>TSO</div> <div>0.00</div> <div>(0:00)</div> <div>CSO</div> <div>0.00</div> </div> SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED							
<div> <div> <div>0</div> <div>No.</div> </div> <div> <div>1</div> <div>Signature</div> </div> </div> <div> <div>2</div> <div>Approved by</div> </div> <div> <div>3</div> <div>Approved by</div> </div> <div> <div>4</div> <div>Approved by</div> </div> <div> <div>5</div> <div>Approved by</div> </div> <div> <div>6</div> <div>Approved by</div> </div> <div> <div>7</div> <div>Approved by</div> </div> <div> <div>8</div> <div>Approved by</div> </div> <div> <div>9</div> <div>Approved by</div> </div> <div> <div>10</div> <div>Approved by</div> </div> <div> <div>11</div> <div>Approved by</div> </div> <div> <div>12</div> <div>Approved by</div> </div> <div> <div>13</div> <div>Approved by</div> </div> <div> <div>14</div> <div>Approved by</div> </div> <div> <div>15</div> <div>Approved by</div> </div> <div> <div>16</div> <div>Approved by</div> </div> <div> <div>17</div> <div>Approved by</div> </div> <div> <div>18</div> <div>Approved by</div> </div> <div> <div>19</div> <div>Approved by</div> </div> <div> 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<div>100</div> <div>Approved by</div> </div>							



Honeywell

Commercial

Repair Station

# FAA-EASA-CAAS-CAAC-JCAB

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

Initial Findings Report

Repair Order: 2017-005011544721-001  
330055685

Customer: 303815 SINGAPORE AIRLINES LTD

Customer P/O: 10453748

Orig Gust:

Part Number: 3822611-1

Part Desc: IMPELLER, COMPRESSOR  
FIRST STAGE

Serial No: 13-182449-08502

Mods:

Series/Issue/Amdts:

Quantity: 1

Aircraft tail#:

Aircraft S/N#:

Date on:

Received Date:

Date off:

Model#: APU 331-500/600

Engine S/N:

Alternate S/N:

TIMES/CYCLES

HH.DD

(HH:MM)

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)

&.66.dwaniRWiw,flIWte:xt=i=k+trr@nr,vw

Nicked BLADE UEDGES NICKED. BALANCE.

it1.ai7sffli.laaai@t.lrii:i,:i, b iii

ovERHauL

BBDne:J22J:s2mum

DH AIL 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

lim:6W1ara•au::\$'liWjiN1m,1lcllr"Rn:11

UNIT OVERHAULED IAW IRM.

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

AiaT4£4fijgag;:::!A@jifh:i:fgh&/ift'!=\':5

Overhaul

s.iiG.iiivhilffi!::ttitim1m •

Evaluation Type

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: 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 Hamel 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 /	
001	IMPELLER, COMPRESSOR, SECOND STAGE	3822341-5	1	1618244923700	Work: NEW	
12. Remarks: 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: 181 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, is accomplished in accordance with Title 14 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>Aggrey Kanyanga</b>	13e. Date (dd/mmm/yyyy): <b>05/OCT/2017</b>	14d. Name (Typed or Printed):		14e. Date (dd/mmm/yyyy):		

#### User/ Installer Responsibilities

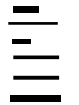
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PX-3107-76C

1. Approving Competent Authority/Country  EASA		2.  <b>AUTHORISED RELEASE - CERTIFICATE</b>  <b>EASA FORM 1</b>			3. Form Tracking Number  201700037518 2Yb2 330067204																
4. Organisation Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gui Circle) 161 Gui 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  <table border="0"> <tr> <td></td> <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)																			
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CSN	4819.00																				
TSO	0.00	(0:00)																			
CSO	0.00																				
<input type="checkbox"/> <b>yes</b> that the items identified above were manufactured in conformity to: <input type="checkbox"/> <b>no</b> <b>signature</b> data and are in condition for safe operation data specified in block 12			14a <input checked="" type="checkbox"/> Part-145.A.50 Release to Service    D 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 Signal		14c. Certificate/Approval Ref. No															
13d. Name		13e. Date (dd mmm yyyy)		14d. Name		14e. Date (dd mmm yyyy)															
<b>USER/INSTALLER RESPONSIBILITIES</b> <b>USER/INSTALLER RESPONSIBILITIES</b> This certificate <b>does</b> 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: 20170003751891Y03. 330067204																
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gui Circle) 161 Gui 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  <table border="0"> <tr> <td></td> <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> SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED  <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>...res the items identified above were manufactured in conformity to:</p> <p><b>D</b> ...ed design data and are in a condition for safe operation.</p> <p><b>D</b> Non-approved design data specified in Block 12.</p> </div> <div style="width: 50%;"> <p>14a. 14 CFR 43.9 Return to Service <b>D</b> Other regulation specified in Block 12</p> <p>'Certified 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> </div> </div>								HH.DD	(HH:MM)	TSN	7184.05	(7184:03)	CSN	4819.00		TSO	0.00	(0:00)	CSO	0.00	
	HH.DD	(HH:MM)																			
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13b. Authorized Signature:		13c. Approval/Authorization No.:		14b. Authorized Signature:		14c. Approval/Certificate No.:															
				" ... oe-		<b>FT4Y192M</b>															
13d. Name (Typed or Printed):		13e. Date(dd/mmm/yyyy):		14d. Name (Typed or Printed):		14e. Date (dd/mmm/yyyy):															
				<b>Chou Nyee Hoong</b>		<b>10/OCT/2017</b>															

#### User / Installer Responsibilities

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1. country  
**SINGAPORE**

2.

**CIVIL AVIATION AUTHORITY OF SINGAPORE  
AUTHORIZED RELEASE CERTIFICATE**

3. Form Tracking Number: •

gg! 51 SSSVOS

**CAAS(AW)95**

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

Repair Station  
AWI/38 I

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	ROTOR ASSY 1STG	3842151-3	N/A	1	12-168522-01537	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.

**WPARTS**

Certifies that parts identified above were manufactured in conformity to:

**D** Approved design data and are in condition for safe operation  
**0** No approved design data specified in Block 13

15. Authorized Signature:

16. CAAS Approval No.:

17. Name (Typed or Printed):

18. Date (dd mmm yyyy):

**119. USED PARTS**

S R-145.50 Release to Service **D** Other regulation specified in Block 13.

Certify 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.:

ocB

**AWI/38**

22. Name (Typed or Printed):

23. Date (dd mmm yyyy):

Chou jNyee 'Hoong

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.

Honeywell

Commercial  
Repair Station #

FAA-EASA-CAAS-CAAC-JCAB

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

Initial Findings Report

Repair Order: 2017-005011549144-001  
330067204  
Customer P/O: 10453748

Customer: 303815 SINGAPORE AIRLINES LTD

Part Number: 3842151-3  
Orig Gust:  
Part Oesc: ROTOR ASSY 1STG  
Serial No: 12-168522-01537

Mods:

Series/Issue/Amdts:

Quantity: 1

Aircraft tail#:

Model#: APU 331-500/600

Aircraft S/N#:

Engine SIN:

Date on:

Received Date:

Date off:

Alternate S/N:

TIMES/CYCLES

HH.DD

(HH:MM)

fl1!MLSti-tmW:i:::Z:\...£::2\...:?:L:::fuJill7184.05

(7184:03)

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ftim sMcieinut:\$:t:fl :rffeYrii:ti:::

1Qa.IIHK'ilv.mun:: :]=:1il:

ii Bts mie:jfiiuin:i=t@tittmfawxwdt f

naI\1i raebilenn inwm:

CUSTOMER REASON FOR RETURN

Overhaul

GENERAL CONDITION AS RECEIVED (HIDDEN DAMAGE)

Condition Received Text

Corrosion/Corroded

ii&.imifiidtti.ti'ii ;iia'ffirmFiii.:1011 OVERHAUL

IitiPikLTtmis=+st&ztilitSiE.:!d!:1

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

liRi ffe.It'.{eaifff1tiiJiumm1fiitYt@h!iiffli#ihWF

UNIT OVERHAULED IAW IRM & 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 & BALANCED.

ltmiiil)ciieojie.:;fttfiitiwiiliiwl&t1 i Overhaul

iiitiili1iliifif.e.iii tifi&Jini

i!hltt tt&ritrit ttxt@;Utifo+:z£bttitt1dn



## Commercial

Repair Station #

FAA-EASA-CAAS-CAAC-JCAB

Honeywell Aerospace Singapore Pte Ltd  
co Honeywell Aerospace Singapore Pte Ltd  
161 Gui Circle  
SINGAPORE 629619  
CAAC-JCAB Date:09 OCT 2017

## Configuration And Findings Evaluation

**Repair Order:** 2017-005011549144-001  
330067204

**Customer:** 3038 15 SINGAPORE AIRLINES LTD

**-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**

1 m111 II~~m~~II IIm111111 .ru11 IIIUW

**S/N:** 12-168522-01537

I Im1111im 1111H111511 m1 I I H1, m111 111111111111

**Series/Issues/Amdts:**

**Mods:**

**MECHANIC/ANALYST** Chin Cheng See

**DATE: 03 OCT 2017**



1. Approving Competent Authority/Country  EASA		2. <div>AUTHORISED RELEASE CERTIFICATE</div> <div>EASA FORM 1</div>			3. Form Tracking Number 20170003753547yo2 330066785	
4. Organisation Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gui Circle) 161 Gui 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	
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  TSN            HH.DD            (HH:MM) 7184.05            (7184:03) CSN            4819.00 TSO            0.00            (0:00) CSO            0.00						
The items that the items identified above were manufactured in conformity to: approved design data and are in condition for safe operation non-approved            data specified in block 12			14a. Part 145 Release to Service <input checked="" type="radio"/> 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			14b. Authorised Signature 		14c. Certificate/Approval Ref. No  EASA.145. 0076	
13d. Name			13e. Date(ddmmmyyyy)		14d. Name Ramadhbss Ramesh	
					14e. Date(ddmmmyyyy) 10 OCT 2017	
USER/INSTALLER RESPONSIBILITIES This certificate <b>does</b> 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 end 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: 20170003753549YQ3, 330066785															
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gui Circle) 161 Gui Circle Singapore 629619				Repair Station FT4Y192M 1																
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 TURB - 2STG	3842155-4	1	12-168522-01912	OVERHAULED															
12. Remarks: <b>THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:</b> <b>IRM 49-24-79 Rev 9, APR/29/2016</b> <b>EM 49-26-57 Rev 20, SEP/27/2016</b>  <table border="0"> <thead> <tr> <th></th> <th>HH.DD</th> <th>(HH:MM)</th> </tr> </thead> <tbody> <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> </tbody> </table> SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED							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 the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Designated 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:																
				FT4Y192M																
13d. Name (Typed or Printed):		13e. Date(dd/mmm/yyyy):		14d. Name (Typed or Printed):																
				Ramdoss Ramesh																
				14e. Date (dd/mmm/yyyy):																
				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  SINGAPORE		2. CIVIL AVIATION AUTHORITY OF SINGAPORE AUTHORIZED RELEASE CERTIFICATE CAAS(AW)95				3. Form Tracking Numb.er.: 20170003753551Y06 330066785			
4. Organization Name and-Address: Honeywell Aerospace Singapore Pte Ltd (Gui Circle) 161 Gui Circle Singapore 629619						Repair St tion AWI/38		5. Work Order/ContracVInvoice 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	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									
18. Date (dd mmm yyyy) ----- 1					122. Nale (Typed or Printed): Ramados Ramesh			23. Date (dd mmm yyyy): 10 OCT 2017	
15. Authorized Signature:					20. Authorized Signature: 10 M... ..n q)-i. • 6 f.>'V...-- 0 VIE<, OC.\$ s,1t			21. CAAS Approval No.: AWI/38	
1. W PARTS Certifies ms identified above were manufactured in conformity to: D Appro design data and are in condition for safe operation D Non-approved. data specified in Block 13					19. USED PARTS SAR-145.50 Release to Service D Other regulation specified in Block 13. Certifies th_at unless otherwise spe ified i_n Block 13, the "ork identified In Block_12 a d . described m Block13 was accomplished m accordance with SAR 145 and the Air Navigatlon Order a.nd in respect to that work the items are considered ready for release to service.				
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 Abworthiness 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

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

SINGAPORE 629619  
Date: 10 OCT 2017

Initial Findings Report

Repair Order: 2017-005011549141-001		Customer: 303815 SINGAPORE AIRLINES LTD	
330066785			
Customer P/O: 10453748			
Part Number: 3842155-4		Orig Cust:	
Part Desc: ROTOR ASSY TURB - 2STG		Serial No: 12-168522-01912	
Mods:			
Series/Issue/Amdts:			
Quantity: 1		Received Date:	
Aircraft tail#:	Aircraft S/N#:	Date on:	Date off:
Model#: APU 331-500/600	Engine S/N:	Alternate S/N:	
TIMES/CYCLES:	HH.DD (HH:MM)		
Time Since New:	7184.05 (7184:03)	1£&"gciillffl ::ll::E1 rnTll	4819.00
Time Since Overhaul:		-tmit.W'o.fii@limw1 1	
Time Since Repair:		-1i[6.i. i mtriltt:&::rMl	

CUSTOMER REASON FOR RETURN

Overhaul

GENERAL CONDITION AS RECEIVED (HIDDEN DAMAGE)

Condition Received Text

Eroded

Rubbed/Abraded

a.Gfi-t41a-r•1tTEw111::m0t10'::1 OVERHAUL

Fmiii'iiiaN•mniiii

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

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UNIT OVERHAULED IAW IRM.

HAND FINISH, ASSEMBLE, BALANCE & INSPECTION. FPI PERFORMED ON DISK AT INCOMING ND" T:

INSPECTION

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Epluaffiiffil'f\$'imYl:f.i.:::6£:e:sz?lr)OTm:...-4

Overhaul

Commercial

SINGAPORE 629619  
Date:10 OCT 2017

Honeywell

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


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S/N: 12-168522-01912

|||||||m ||| m| m||||H||m |m| ||||||||| |||||  
Series/Issues/Amdts:

Mods:

ECHANIC/ANAL YST Chin Cheng See

DATE: 03 OCT 2017

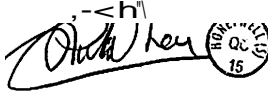
1. Approving Competent Authority/Country  EASA		2. <b>AUTHORISED :RELEASE CERTIFICATE</b>  EASA FORM 1			3. Form Tracking Number 20110003746522y02 330066784	
4. Organisation Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gui Circle) 161 Gui Circle Singapore 629619					5. Work Order/Contract/Invoice 10453748  330006248 Page 1 of 1	
6. Item	7. Description	8. Part No	9. Qty.	10. Serial No.	11. Status/Work	
001	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, 15 FEB 2016  <div style="display: flex; justify-content: space-between;"> <div> TSN CSN TSO CSO </div> <div> HH, DD 7184. OS 4819.00 0.00 0.00 </div> <div> JHH:MM) rt 4=03&gt; (0 :00) </div> </div>						
13a. Certifies that the items identified above were manufactured in conformity to: <input type="checkbox"/> approved design and are in condition for safe operation <input type="checkbox"/> data specified in block 12			14a. Part-145.A.50 Release 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 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 	
13d. Name			13e. Date (dd mmm yyyy)		14c. Certificate/Approval Ref. No EASA.145.0076	
13d. Name			13e. Date (dd mmm yyyy)		14d. Name Chou kyee Hoon	
13d. Name			13e. Date (dd mmm yyyy)		14e. Date (dd mmm yyyy) 09 OCT 2017	

USER/INSTALLER RESPONSIBILITY: This certificate does not automatically authorise the user/installer to install the item(s).

Where the user/installer performs the 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- FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b>			3. Form Tracking Number: 20170003746521Y03 330066784	
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gui Circle) 161 Gui Circle Singapore 629619				ReP,air 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	1 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  <div style="display: flex; justify-content: space-between;"> <div> TSN        HH.DD        (HH:MM)  4819.00    7184.05    (7184:03)  CSN        4819.00  TSO        0.00        (0:00)  CSO        0.00 </div> <div>SEE ATTACHED DOCUMENTS 18 APPLICABLE FOR WORK PERFORMED</div> </div>						
<input checked="" type="checkbox"/> The items identified above were manufactured in conformity to: <input type="checkbox"/> <b>Non-approved design data specified in Block 12.</b>		14a. 14 CFR 43.9 Return to Service <b>D</b> 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):		14e. Date (dd/mmm/yyyy):
				<b>Chou!Nyee Hoong</b>		<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. <b>CIVIL AVIATION AUTHORITY OF SINGAPORE</b> <b>AUTHORIZE-6 RELEASE CERTIFICATE</b> <b>CAAS(AW)95</b>				3. Form Tracking Number: 20170003746520Y06 330066784																
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gui Circle) 161 Gui 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	TURBINE ROTOR A.SSV 3RD STAGE	3842160-6	NIA		12-156101-09303	OVERHAULED																
13. Remarks: THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH: IRM 49-24-79 Rev 9, APR/29/2016  <table border="0"> <tr> <td></td> <td>HH:DD</td> <td>(flH: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> SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED									HH:DD	(flH:MM)	TSN	7184.05	(7184:03)	CSN	4819.00		TSO	0.00	(0:00)	CSO	0.00	
	HH:DD	(flH:MM)																				
TSN	7184.05	(7184:03)																				
CSN	4819.00																					
TSO	0.00	(0:00)																				
CSO	0.00																					
18. USED PARTS Certifies that the parts identified were manufactured in conformity to: D Approses data and are in condition for safe operation C Non			19. USED PARTS (gJ SAR-145.50 Release to Service D Other regulation specified in Block 13. 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:																
17. Name (Typed or Printed):			18. Date (dd mmm yyyy):			21. CAAS Approval No.:																
22. Name (Typed or Printed): Chou Nyee Hoang			23. Date (dd mmm yyyy): 09 OCT 2017			AWI/38																
<b>User/Installer Responsibilities</b> 1. It is important to understand that this notice 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 (CMS), 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.																						



Honeywell

Commercial

Honeywell Aerospace Singapore Pte Ltd  
co Honeywell Aerospace Singapore Pte Ltd  
161 Gui 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

Customer: 303815 SINGAPORE AIRLINES LTD

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

Mods:

Series/Issue/Amdts:

Quantity: 1

Aircraft tail#:

Aircraft S/N#:

Date on:

Received Date:

Date off:

Model#: APU 331-500/600

Engine S/N:

Alternate S/N:

TIMES/CYCLES

HH.DD (HH:MM)

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)

mrawa w.llBie:11 a11w  
Bim1t:1r11si&i: rn@B]m1m1filru1:: .0 VERHAUL  
tiill, Ja]flllt.ta

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

W& i1 ifil fffiltt.\$UiMilvl tidJJt«riq @#i @  
UNIT OVERHAULED IAW IRM.  
BALANCED.  
iGi!tTiiitTiiSr.;1::rtl12ii:m1/2nc: Overhaul  
Piiim11iiim««=- iii,lti @ii:  
m1u\wq ii:i:£:i:Z,'.[?&.Zfr4jk#i:/M)Ml:h\j

Commercial

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

Honeywell

Configuration And Findings Evaluation

Repair Order: 2017-005011549140-001		Customer: 303815 SINGAPORE AIRLINES LTD	
330066784			
Customer P/O: 10453748			
Part Number: 3842160-6		Part Desc: TURBINE ROTOR ASSY 3RD STAGE	Serial No: 12-156101-09303
Orig Cust:			
Mods:			
Series/Issue/Amdts:			
Quantity 1	Ship Date:	Received Date:	

FINAL CONFIGURATION

Part No: 3842160-6

S/N: 1.2-156101-09303

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 Hamel Hempstead, HP2 7UB UNITED KINGDOM		5. Work Order/Contract/Invoice Number: 4705188555-000010 Page 1 of 1
6. Item:	7.	8. Part Number.	9. Quantity:	10. Serial Number:	11. Status / Work:	
Description: 001 I EXCITER		3876195-9	5	J17340009 See Continuation	NEW	
12. Remarks: AIRWORTHINESS APPROVAL. THIS EXCITER IS A SUBCOMPONENT OF A TSO AUTHORIZATION. Block 10 Serial Number(s): (Continued): J1734005,2, J17340006, J17340008, J17340004.						
13a. Certifies the items Identified above were manufactured in conformity to: 181 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 un therwlse specified in Block 12, the work Identified i n Block 11 and described in Block 12 W complshed in accordance with Title 14 e of Federal Regulations, part 43 and In reso that work, the items ar roved for return to service.			
13b. Authorized Signature:  -4-		13c. ApprovaVAuthorization 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/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.  
FAA FORM 8130 - 3 (02-14)  
NsN : 005 - - 012 - 9

# net-inspec<sup>TM</sup> Acceptance Test Data Sheet

Company: **UNISON**  
**INDUSTRIES -**  
**JACKSONVILLE**

**UNISON**

[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		
Paragraph Number	Test Description	Requirement	Result	Test Date	Tester I.D.	Concession Number
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 (55423) ( 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 (iS 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:** )17340052

Q [Print Acceptance Test Data Sheet](#)



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

Commercial

**Honeywell**

Repair Station# ZX4R716M

**Configuration And Findings Evaluation**

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

**Condition Taken Code:** Overhaul  
**Customer Confirmed Removal Reason:** Yes  
**Valuation Type:** : Jt Evaluated - Minor Fault Found

**FINAL CONFIGURATION**

**Part No:** 3505814-3

||||| 1111 D66 m||||| m||||| H|||||

**S/N:** 1541

|ImH|W| |||||

**Series/Issues/Amdts:** 1

11rmH11m

**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 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

	HR.	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

<b>13a. Certifies</b> 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-app design data specified in Block 12.		<b>14a. 181</b> 14CFR 43.9 Return to Service <b>181</b> 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.	
<b>13b. Authorized Signature:</b>	<b>13c. Approval/Authorization No.:</b>	<b>14b. Authorized Signature:</b>	<b>14c. Approval/Certificate No.:</b> <b>ZX4R716M</b>
<b>13d. Name (Typed or Printed):</b>	<b>13e. Date(dd/mmm/yyyy):</b>	<b>14d. Name (Typed or Printed):</b> <b>Renee Blair</b>	<b>14e. Date(dd/mmm/yyyy):</b> <b>11/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. <b>IE*</b> Country  ip00 China	2. 't'IE fllM3:'.ti1.mJ CAAC <input type="checkbox"/> *tt  <b>AUTHORIZED RELEASE CERTIFICATE/AIRWORTHINESS APPROVAL TAG</b>	Conformity MM: Airworthiness		3. iiE-='5% , 20170003762647Y05 329829652	.Certificat_e Ref. No.	
4. lji{IT_ Organization Honeywell International Inc 1 Cliff Garrett Drive Anniston AL 36201				5. I11:lp./%J'iulji/(11.lji <b>Work Order/Contract/Invoice</b> 7848457 329787695 Page 1 of 1		
6. ff-ls-Item	7. <b>P3</b> Description	8. #/% Part No.	9. fltt Eligibility	10. W'(:fil: Qty	11. f-ls-/ 11;% Serial/Batch No.	12. r"A"/, :j:R Status/Work
001	STARTER AIR TURBINE	3505814-3	NOT KNOWN		1541	OVERHAULED
13. f:t Remarks THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH: CL, !M 49-42-01 Rev 3, AUG/06/2011  HJ-I, 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 tt;t, a)...ti! J'.9i((J;J;t ;tl;ill;/.5' , *Bftc!m...国家适航条例进行制造/检查, ii.i<r"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。 Certifies that the part(s) identified e s otherwise specified in block 13 was (were) manufact inspected in accor with the airworthiness regulations of the country and / or in the case of pa s...e exported with the approved design data and with the notified special requirements of the im- porting country.			15. flli:1(1(J;t".fi, Used Parts ttp,lJfj_tj!f"A"/,l>j. 1319\((J;):t ;tl;il l;/5' , Bftc!m...ti!O O M Jllillii!Eii!l:m'tl *illrrTIll=, iY<1".l'l'l, r m:t:R mm rr m. 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)			
16. mli.A. Signature ,-- ) -k			10. mliBWl Date OCT/11/2017			
11. mm.A.!(£ crr ((J) Name (Printed) Renee Blair			19. 't'00 M,ti1.rn! :& Issued by or on behalf of the CAAC F00100122			





## ANALYTICAL CHECK SHEET FORM

Honeywell

Repair Facility :Honeywell R&O, Anniston, AL Repair  
Station No :ZX4R716Mcustomer PO : 7848457  
Notification No: 000329787695  
Outline No : 3505814-3  
Mod To Outline. :3505814-3Customer: PLANT4146 Honeywell International SARL c/oHoneywell  
Service Order No : 5011466914 Sales Order No : 7848457  
Serial No: 1541  
Mod to SIN: 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
O.UT	3505814-3	1541	M			

ff;WORK 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.	DISD	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.	DISD	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.	DisD	Qty	Description	Service Order #
IN	.3503960-1		U	1	DUCT,STATORINLET,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 :ZX4R716MCustomer PO : 7848457  
Notification No: 000329787695  
Outline No : 3505814-3  
Mod To Outline. :3505814-3Customer: 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.	DisD	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.	DISD	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.	DiSD	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.	Diso	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.	DiSD	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/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	.3504074-1		U	1	FILTER DISC	
OUT	3504074-1		U			

REWORK CODE :

CONDITION CODE:

ACCT IND:

ANALYST REMARKS :

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

REWORK CODE :

CONDITION CODE :

ACCT IND:

ANALYST REMARKS :

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

REWORK CODE :

CONDITION CODE :

ACCT IND:

ANALYST REMARKS :

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

REWORK CODE :

CONDITION CODE : 6360 100% upon Removal

ACCT IND:

ANALYST REMARKS :

	Material	Serial No.	Disc	Qty	Description	Service Order#
IN	.3503985-1	093938	R	1	WHEEL ASSY, TURBINE, AXIAL FLOW	5011483314
OUT	3503985-1	093938	R			

REWORK CODE : 350

CONDITION CODE: 6780Wom

ACCT IND:

ANALYST REMARKS :

	Material	Serial No.	Diso	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 doHoneywell  
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	Qtv	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	Qtv	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	Qtv	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.	Diso	Qtv	Descriptio	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.	Dis	Qt	Descri tion	Service Order#
IN	.3503972-1		N		ROTOR, SEAL	
OUT	3503972-1		N			

REWORK CODE :  
CONDITION CODE:

6780Worn
ACCT IND:

ANALYST REMARKS :

	Material	Serial No.	Dis	Qt	Descri lion	Service Order#
IN	.3503982-2		N		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 :

ACCTIND:

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 : 6780Wom

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 : 6780Wom

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 ; 6780Worn

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

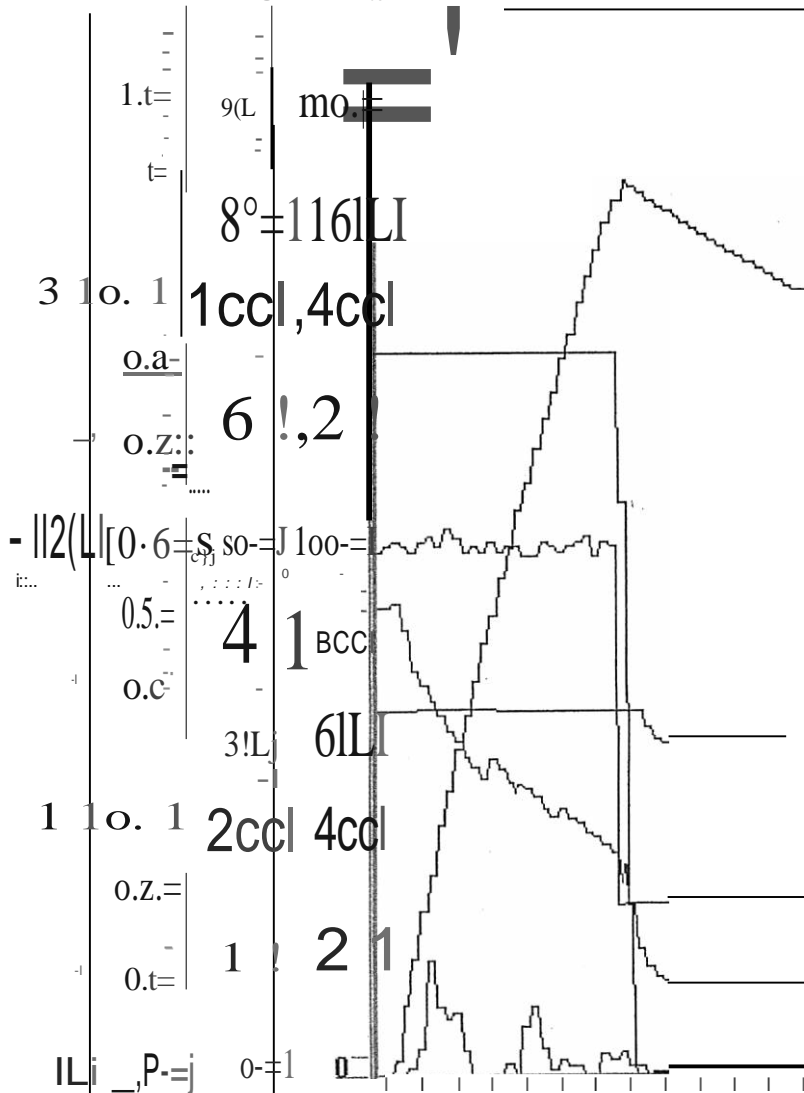
	Material	Serial No.	Disp	Qty	Description	Service Order#
IN	.3503963-1		N	1	WASHER, THRUST	
OUT	3503963-1		N			

REWORK CODE :

CONDITION CODE : 6780Wom

ACCT IND:

ANALYST REMARKS :



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(J)

Unit Under Test  
AirTurbineStarter.

R/O:  
5011466914RUN3

PartNo.:  
3505814

OashNo.:  
3

SerialNo.:  
1541

Operator:  
Geesken

Orifice diameter:  
000.00 inch

DeltaP:  
000.00 inH2O

OrificePressure:  
000.00 PSI

Orifice Temperature:  
000.0 Of

Flow:  
000.00 ppm

AmbientPressure:  
029.40 inHGa

Ambienfemp.:  
000.00 Of

Humidity%

f///

Date:

Time:

Ren air Order:

Partnumber:

Dash-No:

SerialNo:

Oerator:

Acceleration Time:

VibDiSPlacenlentlv1a...

StarterinletTemp.:

5011466914RUN31eedsetn ointl

3505814

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1541

Geesken

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000.0 mil

068.9 °F

Speedsetpoint2

Speedsetpoint3

Speedsetpoint4:

Cut off Sneed:

Max.Testtime:

Flvwheel:

VibVelocityMax:

StarterinletPressure:

01000 rom

04000 rom

07000 rpm

10000rpm

10000 rom

055 sec

01.00 slug feet2

000.4 in/s

027.3 psig

ToraueSeto ointl

ToraueSetn ointl

Torouesetn ointl3

TorqueSetpoint4:

Ambhientpressure:

ATA:

Revision:

Revision Date:

Time:

Date:

00040.21 lbft

00031.16 lbft

00027.03 lbft

00021.48 lbft

29.40 inchHGa

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09:59:42

11 October 2017

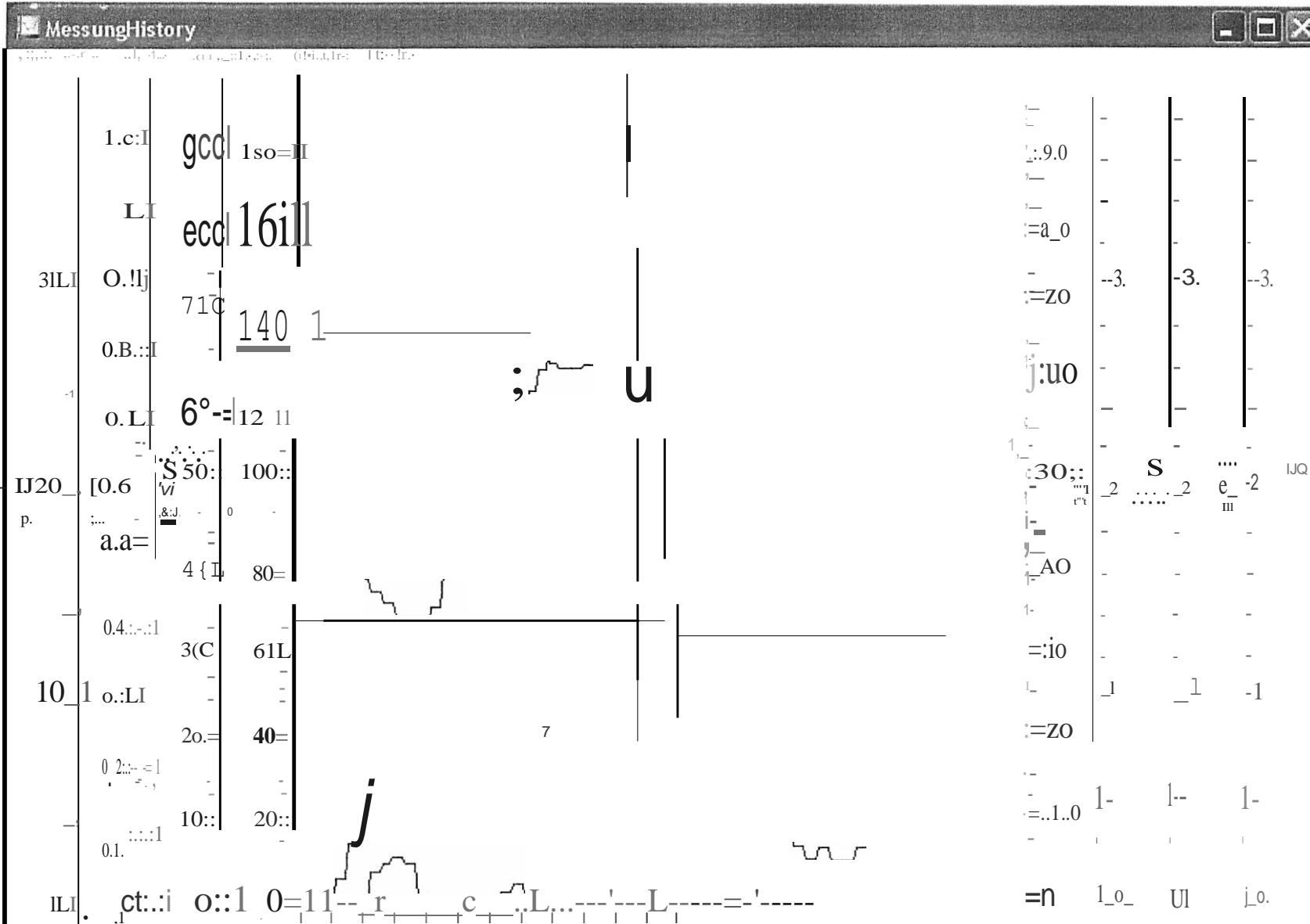
QS1186/2002

Ed

11:11

9:s9 AM





Unit Under Test  
AirTurbineStarter.

R/O:

5011466914RUN4

PartNo.:

**3505814**

DashNo.:

3

Serial No.:

1541

Operator:

Geesken

Orifice diameter:

000.00 inch

DeltaP:

00.00 inH2O:

000.00 PSI

Orifice Temperature:

000.0 °F

Flow:

000.00 ppm

AmbientPressure:

029.40 inHGa

AmbientTemp.:

Humidity:

000.00 %

t T'

Date:

Time:

Reoair Order:

5011466914RUN41eedsetpoint1:

01000 rum

Partnumber:

3505814

Speedsetpoint2:

04000 rum

Dash-No:

3

Speedsetpoint3:

07000 rpm

SerialNo:

1541

Speedsetpoint4:

10000rpm

Onerator:

Geesken

Cut off Speed:

10000 rum

Acceleration Time:

018.1 sec.

Max.Testtime:

055 sec.

VibDisplacementMax

000.0 mil

Flywheel:

01.00 slug fee'IZ

StarterinletTemp.:

069.0 v.J:o-

VibVelocity lax:

00.0.2 in/s

StarterinletPressure:027.5 psig

T oraueSetn oint1

00041.09 lbft

T oraueSetn oint2

00033.58 lbft

TorqueSetp oint3

00027.80 lbft

TorqueSetp oint4:

00021.45 lbft

Amllientpressure:

29.40 inchHGa

ATA:

49-42-01

Revision:

3

Revision Date:

08/06/2011

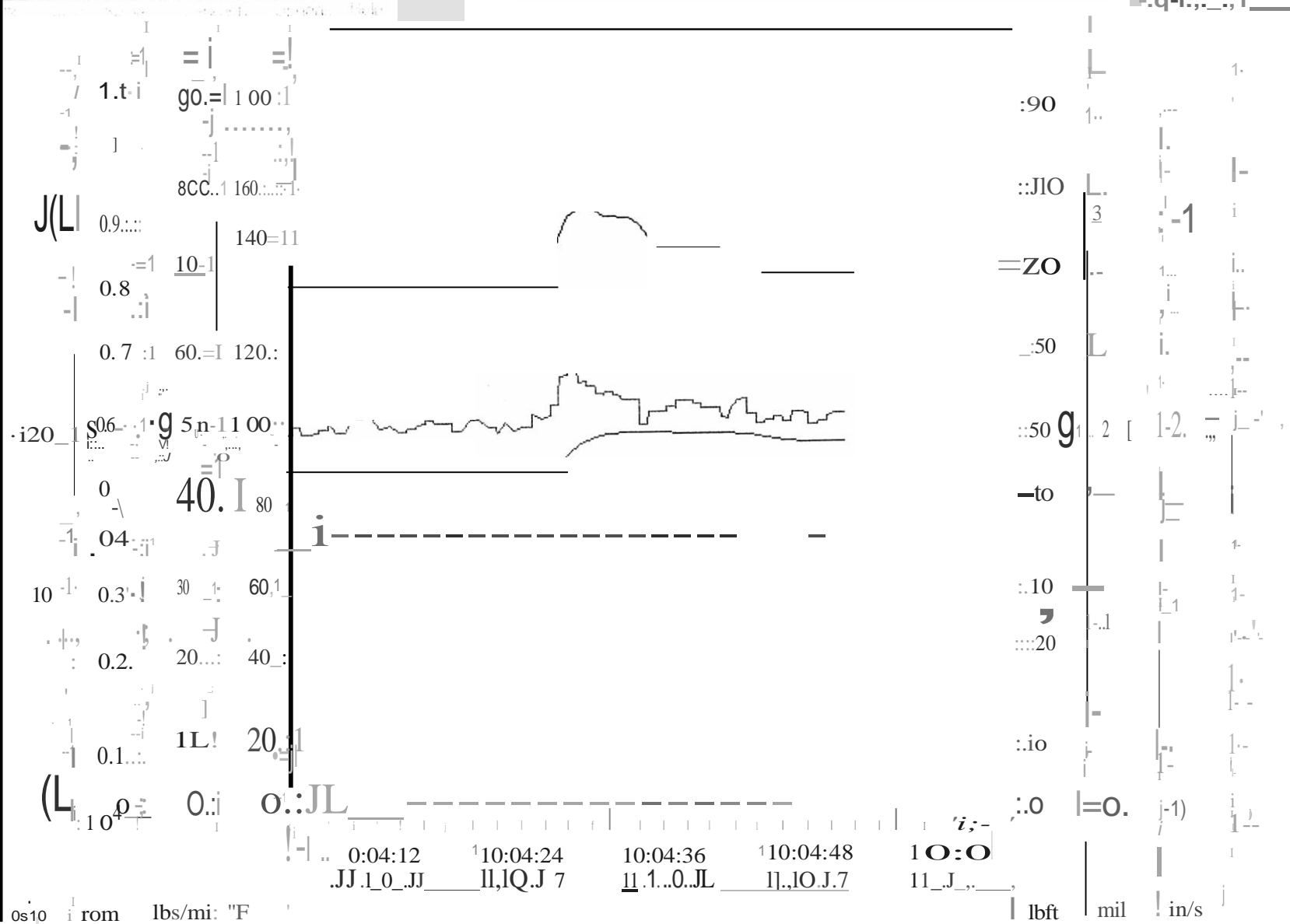
Time:

10:01:39

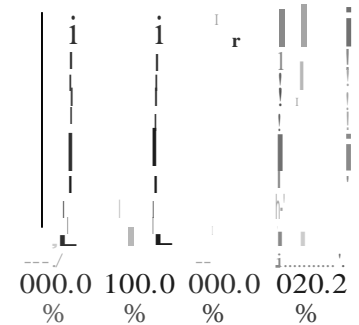
Date:

11 October 2017

QS1186/2002



Stall1 Airf19w Only  
RJO: 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 Air Control  
Starter Inlet Control



os10  
J31LUO!  
I...:Tn'

Stop Brake Off

EMERGENCY STOP EXIT

Orifice Press	Inlet Press	Temp1	Temp2	Speed	Torque	Displ.	Veloc.	Spare
086.1 inHG	027. Spsig	069 °F	931 °F	00000 rpm	0047 lbft	00.0 mil	00.0 in/s	000.0 psig

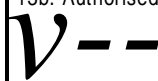
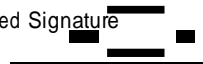
1. Country	2. CIVIL AVIATION AUTHORITY OF SINGAPORE	3. Form Tracking Number: ib gre5o9vos				
SINGAPORE	<b>AUTHORIZED RELEASE CERTIFICATE</b> CAAS(AW)95					
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gui Circle) 161 Gui Circle Singapore 629619		5. Work Order/Contract/Invoice 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	IGNITION SYSTEM ASSY	3888275-10	N/A	1	N/A	REPAIRED
13. 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						
1. WPARTS Certifies that the parts identified above were manufactured in conformity to: D Appro design data and are in condition for safe operation D Non-approved data specified in Block 13			19. USED PARTS 18.1 SAR-145.50 Release to Service D Other regulation specified in Block 13. 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: _____ Approval No.: _____			20. Authorized Signature: _____ QC :S-76,6,		21. CAAS Approval No.: <b>AWI/38</b>	
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>  EASA FORM 1			3. Form Tracking Number 20170003776507Y02 330053409	
4. Organisation Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gui Circle) 161 Gui 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 O, 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						
The items identified above were manufactured in conformity to: approval design data and are in condition for safe operation data specified in block 12			14a i;zJ Part-145.A.50 Release to Service D 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  [Signature]			14b. Authorised Signature  [Signature] VIE1, z QC O,s,16		14c. Certificate/Approval Ref. No  EASA.145.0076	
13e. Date (dd mmm yyyy) ----- 16 OCT 2017			114d. Name Tan Chat Pan g		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 the 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 Competent Authority/Country  EASA		2. <div>AUTHORISED RELEASE CERTIFICATE</div> <div>EASA FORM 1</div>			3. Form Number 20170003776472Y02 330052988	
4. Organisation Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gui Circle) 161 Gui 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	MODULE DATA MEMORY	304643-2	1	GE12119	INSPECTED/ TESTED	
12. Remarks THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH: IRM 49-24-79 Rev 9, APR/29/2016						
13a. Items that the items identified above were manufactured in conformity to: approved design data and are in condition for safe operation non-approved data specified in block 12			14a. Part 145.50 Release to Service D 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 			14b. Authorised Signature 		14c. Certificate/Approval Ref. No EASA.145.0076	
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

NGAPORE

14.

CIVIL AVIATION AUTHORITY OF SINGAPORE  
**AUTHORIZED RELEASE CERTIFICATE**  
**CAAS(AW)95**

3. Form Tracking Number:

gJ ggg 76467Y06

4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd  
(Gui Circle)  
161 Gui 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	VALVE OUTLINE, SURGE CONTROL	3290814-5	N/A	1	3290814/888	OVERHAULED

13. Remarks:

CONTINUED:

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:

RH.DD (HH:MM)

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

CSR 0.00

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)

TEXT CONTINUED ON RIGHT SIDE

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

**16. PARTS**

- Items identified above were manufactured in conformity to:  
Approved design data and are in condition for safe operation  
Non-approved data specified in Block 13

**19. USED PARTS**

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

20. Authorized Signature:

21. CAAS Approval No.:

AWI/38

18. Date (dd mmm yyyy)

22. Name (Typed or Printed):

23. Date (dd mmm yyyy):

1

TanChatPang

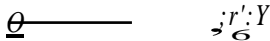
16OCT2017

**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>		2. <b>AUTHORIZED RELEASE CERTIFICATE</b> <b>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b>			3. Form Tracking Number: , , 20170003776466Y03 330053325	
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gui Circle) 161 Gui 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 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. HH.DD (HH:MM) TSO 0.00 (0:00) CSO 0.00 TSR 0.00 (0:00) <b>TEXT CONTINUED ON RIGHT SIDE</b>  SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED						
13a. [g] les the items identified above were manufactured in conformity to: D ed design data and are in a condition for safe operation. D Non-appro sign data specified in Block 12.			14a. [g] 14 CFR 43.9 Return to Service D 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:		3c. Approval/Authorization No.:	14b. Authorized Signature: _____ (;		14c. Approval/Certificate No.: <b>FT4Y192M</b>	
13d. Nam rinted):		13e. Date(dd/mmm/y		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 Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authoriw. of the country specified in Block1. Statements in Blocks 13a and 14a do not constitute installation tectification. In all cas s aircraft maintenance records must contain an Installation certification issued in accordance with the national reaulations by the user/installer before the aircraft may be flown.						



1. Country <b>SINGAPORE</b>		2. <b>CIVIL AVIATION AUTHORITY OF SINGAPORE</b> <b>AUTHORIZED RELEASE CERTIFICATE</b> <b>CAAS(AW)95</b>				3. Form Tracking Number: 20170003776433Y06 330041083	
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gui Circle) 161 Gui 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	PNEUMATIC CLUSTER ASSY	3884863-7	N/A	1	P-1525	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  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							
14. <b>W PARTS</b> Certifies that the parts identified above were manufactured in conformity to: <b>O</b> Appro design data and are in condition for safe operation <b>D</b> Non-approved data specified in Block 13			19. <b>USED PARTS</b> <b>I</b> SAR-145.50 Release to Service <b>D</b> Other regulation specified in Block 13. Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block13 was accomplished in accordance with 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:		Approval No.:		20. Authorized Signature: 		21. CAAS Approval No.: <b>AWI/38</b>	
18. Date (dd mmm yyyy) <b>1</b>		122. Name (Typed or Printed): <b>Tan Chat Pang</b>				23. Date (dd mmm yyyy): <b>16 OCT 2017</b>	
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(CMS), it is essential that the user/Installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the CMS. 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: , 20170003776431Y03 330041083	
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gui Circle) 161 Gui Circle Singapore 629619				Repair Station FT4Y192M		5. Work Order/Contract/Invoice Number: <b>10453748</b> 330006248 Page 1 of 1
6.Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	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  SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED						
Unless the items identified above were manufactured in conformity to: <b>D</b> ed design data and are in a condition for safe operation. <b>D</b> esign data specified in Block 12.			14a. (g) 14 CFR 43.9 Return to Service <b>D</b> 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:		3c. Approval/Authorization No.:		14b. Authorized Signature: ,  _____ 72		4c. Approval/Certificate No.: <b>FT4Y192M</b>
Printed):		113e. Date(dd/mmm		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 Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts a aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block1. 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 (Gui Circle) 161 Gui 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 ORIP30260 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. Items that the items identified above were manufactured in conformity to: approved design data and are in condition for safe operation data specified in block 12			14a b2l Part-145.A.50 Release to Service    D 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  V--			14b. Authorised Signature  1W? QC... 16		14c. Certificate/Approval Ref. No  EASA.145.0076	
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

SINGAPORE

2.

CIVIL AVIATION AUTHORITY OF SINGAPORE

3. Form Tracking Number:

16 9 61a42avo6

4. Organization Name and Address:

Honeywell Aerospace Singapore Pte Ltd  
(Gui Circle)  
161 Gui 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:*	0. Quantity:	11. Serial / Batch Number.	12. Status / Work:
001	VALVE ASSY,ATS CONT	3283076-5	N/A	1	1578	REPAIRED

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

<!--\_S::|A| PARTS

ms identified above were manufactured in conformity to:

Appro esign data and are in condition for safe operation

Non-approved data specified in Block 13

19. USED PARTS

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

Cert es th\_at unless otherwise sp fied i\_n Block 13, the\_ork identified in Block.12 a d. described in Block13 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:

20. Authorized Signature:

21. CAAS Approval No.:

AWI/38

18. Date {dd mmm yyyy}

122. Name (Typed or Printed):

23. Date (dd mmm yyyy):


1 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. V/here the usernstaller 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 usernstaller ensures that hlsnier 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:<br><b>FAA/United States</b>  |                     | 2. <b>AUTHORIZED RELEASE CERTIFICATE</b><br><b>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b> |             |  | 3. Form Tracking Number:<br>20170003776425Y03<br>330054080 |  |
| 4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd<br>(Gui Circle)<br>161 Gui Circle<br>Singapore 629619   |                     |  |             | Repair Station<br>FT4Y192M   |  |  |
|   |                     |  |             | 5. Work Order/Contract/Invoice Number:<br>10453748<br>330006248<br>Page 1 of 1                           |  |  |
| 6. Item:  | 7. Description:     | 8. Part Number:  | 9. Quantity | 10. Serial Number:   | 11. Status / Work:   |  |
| 001   | VALVE ASSY,ATS CONT | 3283076-5  | 1           | 1578   | REPAIRED   |  |
| 12. Remarks:<br>THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:<br>CMM 49-52-19 Rev 3, APR/30/2007<br>ORI W01466 Rev-, MAR/12/2012<br><br>HH.DD (HH:MM)<br>CSR 0.00<br>TSR 0.00 (0:00)<br><br>SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED<br><br><div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Unless the items identified above were manufactured in conformity to:</p> <p><b>D</b> Deviated design data and are in a condition for safe operation.</p> <p><b>D</b> Non-approved design data specified in Block 12.</p> </div> <div style="width: 50%;"> <p>14a. 14 CFR 43.9 Return to Service <b>D</b> Other regulation specified in Block 12</p> <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> </div> </div> |                     |  |             |  |  |  |
| 13b. Authorized Signature:  |                     | 13c. Approval/Authorization No.:   |             | 14b. Authorized Signature:   |  |  |
|   |                     |  |             | <br><b>FT4Y192M</b> |  |  |
| 13d. Name (Typed or Printed):   |                     | 13e. Date(dd/mmm/yyyy):  |             | 14d. Name (Typed or Printed):  |  |  |
|   |                     |  |             | <b>Tan Chat Pang</b><br><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<br><br>EASA  |                     | 2.<br><div>AUTHORISED RELEASE CERTIFICATE</div> <div>EASA FORM 1</div> |   |                | 3. Form Tracking Number<br>20170003776424Y02<br>330054080                  |  |
| 4. Organisation Name and Address: Honeywell Aerospace Singapore Pte Ltd<br>(Gui Circle)<br>161 Gui Circle<br>Singapore 629619   |                     |  |   |                | 5. Work Order/Contract/Invoice<br>10453748<br><br>330006248<br>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   |  |
| 12. Remarks<br>THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:<br>CMM 49-52-19 Rev 3, APR/30/2007<br>ORI W01466 Rev-, MAR/12/2012<br><br><div><div>HH.DD (HH:MM)</div><div>CSR0.00</div><div>TSR0.00 (0: 00)</div></div>  |                     |  |   |                |  |  |
| Certifies that the items identified above were manufactured in conformity to:<br>appro design data and are in condition for safe operation<br>data specified in block 12  |                     |  | 14a i;zJ Part-145.A.50 Release to Service D Other regulation specified in block 12<br>Certifies that unless otherwise specified in block 12, the work identified in block 11<br>and described in block 12, was accomplished in accordance with Part-145 and in<br>respect to that work the items are considered ready for release to service. |                |  |  |
| 13b. Authorised Signature   |                     |  | 14b. Authorised Signature<br><div>—<br/>, WZ,<br/>QC<br/>:S-75</div>  |                | 14c. Certificate/Approval Ref. No<br><br>EASA.145.0076                     |  |
| 1138. Dale (dd mmm yyyy)  |                     |  | 14d. Name<br><br>Tan Chat Pang  |                | 14e. Date (dd mmm yyyy)<br><br>16 OCT 2017                                 |  |
| USERRNSTALLER RESPONSIBILITIES<br>This certificate does not automatically constitute authority to Install the item(s).<br><br>Where the usernnstaller performs work in accordance with regulation of an ahworthiness authority different than the abworthiness authority specified In block 1, It Is essential that the usernnstaller<br>ensures that his/her airworthiness authority accepts items from the airworthiness authority specified in block 1.<br><br>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<br>regulations by tha user/installer before the aircraft may be flown. |                     |  |   |                |  |  |



|   |                               |  |                           |                          |                           |  |  |
|---|-------------------------------|--|---------------------------|--------------------------|---------------------------|--|--|
| 1. Country<br><br><b>SINGAPORE</b>  |                               | 2.<br><b>CIVIL AVIATION AUTHORITY OF SINGAPORE</b><br><b>AUTHORIZED RELEASE CERTIFICATE</b><br><b>CAAS(AW)95</b> |                           |                          |                           | 3. Form Tracking Number:<br>20170003776311Y06<br>330053347                     |  |
| 4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd<br>(Gui Circle)<br>161 Gui Circle<br>Singapore 629619   |                               |  |                           | Repair Station<br>AWI/38 |                           | 5. Work Order/Contract/Invoice Number:<br>10453748<br>330006248<br>Page 1 of 1 |  |
| 6.Item:   | 7. Description:               | 8. Part Number:  | 9. Eligibility:*          | 10. Quantity:            | 11. Serial/ Batch Number: | 12. Status/ Work:  |  |
| 001   | MOTOR OUTLINE, DIRECT CURRENT | 2704442-5  | NIA                       | 1                        | 1234                      | OVERHAULED   |  |
| 13. Remarks:<br>THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:<br>CMM 49-42-02 Rev 5, APR/18/2014<br>TR 49-6 CMM 49-42-02<br><br>HH.DD      (HH:MM)<br>TSO          0.00      (0:00)<br>CSO          0.00<br>TSR          0.00      (0:00)<br>CSR          0.00<br>SERIES/ISSUE/AMDTs:2<br>MODS: NIL<br><br>SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED  |                               |  |                           |                          |                           |  |  |
| 17. Name (Typed or Printed):  |                               |  | 18. Date (dd mmm yyyy):   |                          |                           | 19. Name (Typed or Printed):   |  |
| Tan Chat Pang   |                               |  | 16 OCT 2017               |                          |                           | 20. Name (Typed or Printed):   |  |
| 15. Authorized Signature:   |                               |  | 20. Authorized Signature: |                          |                           | 21. CAAS Approval No.:   |  |
| [Signature]   |                               |  | [Signature]               |                          |                           | AWI/38   |  |
| 1. It is important to understand that the existence of the Certificate alone does not automatically constitute authority to install the part/component/assembly.<br>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.<br>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:<br><b>FAA/United States</b>   |                               | 2. <b>AUTHORIZED RELEASE CERTIFICATE</b><br><b>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b> |  |   | 3. Form Tracking Number: ,<br>20170003776310Y03<br>330053347 |  |
| 4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd<br>(Gui Circle)<br>161 Gui Circle<br>Singapore 629619  |                               |  |  | Repair Station<br>FT4Y192M                            |  |  |
| 5. Work Order/Contract/Invoice Number:<br>10453748<br>330006248<br>Page 1 of 1   |                               |  |  |   |  |  |
| 6. Item:   | 7. Description:               | 8. Part Number:  | 9. Quantity:   | 10. Serial Number:                                    | 11. Status /Work:  |  |
| 001  | MOTOR OUTLINE, DIRECT CURRENT | 2704442-5  | 1  | 1234  | OVERHAULED   |  |
| 12. Remarks:<br>THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:<br>CMM 49-42-02 Rev 5, APR/18/2014<br>TR 49-6 CMM 49-42-02<br><br>HH.DD      (HH:MM)<br>TSO          0.00      (0:00)<br>CSO          0.00<br>TSR          0.00      (0:00)<br>CSR          0.00<br>SERIES/ISSUE/AMDTs:2<br>MODS: NIL<br><br><br>SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED   |                               |  |  |   |  |  |
| The items identified above were manufactured in conformity to:<br><b>D</b> ed design data and are in a condition for safe operation.<br><b>D</b> Non-approval sign data specified in Block 12.   |                               |  | 14a. 14 CFR 43.9 Return to Service <b>D</b> Other regulation specified in Block 12<br>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:   |                               | 3c. Approval/Authorization No.:  | 14b. Authorized Signature:   |   | 14c. Approval/Certificate No.:<br><b>FT4Y192M</b>            |  |
| 13d. Name (Printed):   |                               | 13e. Date (dd/mm/yyyy):  |  | 14d. Name (Typed or Printed):<br><b>Tan Chat Pang</b> |  |  |
|  |                               |  |  | 14e. Date (dd/mm/yyyy):<br><b>16/OCT/2017</b>         |  |  |
| <b>User / Installer Responsibilities</b><br>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<br><br>EASA  |                               | 2.<br><div>AUTHORISED RELEASE CERTIFICATE</div> <div>EASA FORM 1</div> |  |                | 3. Form Tracking Number<br>20170003776309Y02<br>330053347                  |  |
| 4. Organisation Name and Address: Honeywell Aerospace Singapore Pte Ltd<br>(Gui Circle)<br>161 Gui Circle<br>Singapore 629619   |                               |  |  |                | 5. Work Order/Contract/Invoice<br>10453748<br><br>330006248<br>Page 1 of 1 |  |
| 6. Item   | 7. Description                | 8. Part No   | 9. Qty   | 10. Serial No. | 11. Status/Work  |  |
| 001   | MOTOR OUTLINE, DIRECT CURRENT | 2704442-5  | 1  | 1234           | OVERHAULED   |  |
| 12. Remarks<br>THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:<br>CMM 49-42-02 Rev 5, APR/18/2014<br>TR 49-6 CMM 49-42-02<br><br>HH.DD      (HH:MM)<br>TSO          0.00      {0: 00)<br>CSO          0.00<br>TSR          0.00      (0:00)<br>CSR          0.00<br>SERIES/ISSUE/AMDTS:2<br>MODS: NIL   |                               |  |  |                |  |  |
| 13a. Certifies that the items identified above were manufactured in conformity to:<br>appro      design data and are in condition for safe operation<br>non-approved      data specified in block 12  |                               |  | 14a. i;zJ Part-145.A.50 Release to Service D Other regulation specified in block 12<br>Certifies that unless otherwise specified in block 12, the work identified in block 11<br>and described in block 12, was accomplished in accordance with Part-145 and in<br>respect to that work the items are considered ready for release to service. |                |  |  |
| 13b. Authorised Signature   |                               |  | 14b. Authorised Signature<br><div>-&lt;W<br/>ac<br/>-,,,76</div>   |                | 14c. Certificate/Approval Ref. No<br><br>EASA.145.0076                     |  |
| 13e. Date (dd mmm yyyy)   |                               |  | 114d. Name<br><br>Tan Chat Pang  |                | 14e. Date (dd mmm yyyy)<br><br>16 OCT 2017                                 |  |
| USER/INSTALLER RESPONSIBILITIES<br>This certificate <b>does not</b> automatically constitute authority to install the Item(s).<br><br>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.<br><br>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<br><br>EASA   |                            | 2.<br><div>AUTHORISED RELEASE CERTIFICATE</div> <div>EASA FORM 1</div> |   |                | 3. Form Tracking Number<br>20170003776315Y02<br>330054722                  |  |
| 4. Organisation Name and Address: Honeywell Aerospace Singapore Pte Ltd<br>{Gui Circle}<br>161 Gui Circle<br>Singapore 629619  |                            |  |   |                | 5. Work Order/Contract/Invoice<br>10453748<br><br>330006248<br>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  |  |
| 12. Remarks<br>THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:<br>CMM 49-50-05 Rev 9, SEP/11/2014<br>UNIT TESTED.  |                            |  |   |                |  |  |
| The items identified above were manufactured in conformity to:<br>approved design data and are in condition for safe operation<br>data specified in block 12   |                            |  | 14a <input checked="" type="radio"/> Part-145.A.50 Release to Service <input type="radio"/> Other regulation specified in block 12<br>Certifies that unless otherwise specified in block 12, the work identified in block 11<br>and described in block 12, was accomplished in accordance with Part-145 and in<br>respect to that work the items are considered ready for release to service. |                |  |  |
| 13b. Authorised Signature<br><br>[Signature]   |                            |  | 14b. Authorised Signature<br><br>[Signature]  |                | 14c. Certificate/Approval Ref. No<br><br>EASA.145.0076                     |  |
| 13e. Date (dd mmm yyyy)<br><br>16 OCT 2017   |                            |  | 14d. Name<br>Tan Chat Pang  |                | 14e. Date (dd mmm yyyy)<br><br>16 OCT 2017                                 |  |
| USER/INSTALLER RESPONSIBILITIES<br>This certificate does not automatically constitute authority to Install the Item(s).<br><br>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<br>ensures that his/her airworthiness authority accepts Items from the airworthiness authority specified in block 1.<br><br>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<br>regulations by the user/Installer before the aircraft may be flown. |                            |  |   |                |  |  |





|   |                 |  |           |                    |  |  |
|---|-----------------|--|-----------|--------------------|--|--|
| 1. Approving Civil Aviation Authority/Country:<br><b>FAA/United States</b>  |                 | 2. <b>AUTHORIZED RELEASE CERTIFICATE</b><br><b>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b> |           |                    | 3. Form Tracking umber:•<br>20170003776322Y03<br>330053522                     |  |
| 4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd<br>(Gui Circle)<br>161 Gui Circle<br>Singapore 629619 |                 |  |           |                    | Repair Station<br>FT4Y192M   |  |
|   |                 |  |           |                    | 5. Work Order/Contract/Invoice Number:<br>10453748<br>330006248<br>Page 1 of 1 |  |
| 6.Item:   | 7. Description: | 8. Part Number:  | 9. Quanti | 10. Serial Number: | 11. Status / Work:   |  |
| 001   | FUEL CLUSTER    | 3879008-1  |           | CUA11725           | INSPECTED  |  |

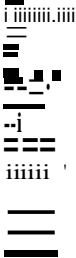
12. Remarks:  
THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:  
CMM 49-31-71 Rev 8, FEB/22/2012  
UNIT TESTED.


SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

|   |                                  |  |  |
|---|----------------------------------|--|--|
| <div>• les the items identified above were manufactured in conformity to:<br/><b>D</b> ed design data and are in a condition for safe operation.<br/><b>D</b> Non-appro esign data specified in Block 12.</div> |                                  | 14a. 14 CFR 43.9 Return to Service <b>D</b> Other regulation specified in Block 12<br>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:<br><div>'&lt; w&lt;&lt;'<br/>..x QC,,</div>   | 114c. Approval/Certificate No.:<br><b>FT4Y192M</b> |
| 13d. Name (Typed or Printed):   | 13e. Date(dd/mmm/yyyy):          | 14d. Name (Typed or Printed):<br><b>Tan Chat Pang</b>  | 14e. Date (dd/mmm/yyyy):<br><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 Block1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authori of the country specified in Block1. 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<br><br>EASA   |                | 2.<br><br><b>AUTHORISED RELEASE CERTIFICATE</b><br><br>EASA FORM 1 |  |                | 3. Form Tracking Number<br>20170003776321Y02<br>330053522                  |  |
| 4. Organisation Name and Address: Honeywell Aerospace Singapore Pte Ltd<br>(Gui Circle)<br>161 Gui Circle<br>Singapore 629619  |                |  |  |                | 5. Work Order/Contract/Invoice<br>10453748<br><br>330006248<br>Page 1 of 1 |  |
| 6. Item  | 7. Description | 8. Part No   | 9. Qty   | 10. Serial No. | 11. Status/Work  |  |
| 001  | FUEL CLUSTER   | 3829008-1  | 1  | CUA11725       | INSPECTED/ TESTED  |  |
| 12. Remarks<br>THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:<br>CMM 49-31-71 Rev 8, FEB/22/2012<br>UNIT TESTED.  |                |  |  |                |  |  |
| 13a. Certifies that the items identified above were manufactured in conformity to:<br>design data and are in condition for safe operation<br>data specified in block 12  |                |  | 14a. <input checked="" type="radio"/> Part-145.A.50 Release to Service <input type="radio"/> Other regulation specified in block 12<br>Certifies that unless otherwise specified in block 12, the work identified in block 11<br>and described in block 12, was accomplished in accordance with Part-145 and in<br>respect to that work the items are considered ready for release to service. |                |  |  |
| 13b. Authorised Signature  |                |  | 14b. Authorised Signature<br>   |                | 14c. Certificate/Approval Ref. No<br>EASA.145.0076                         |  |
| 13e. Date (dd mmm yyyy) _____  |                |  | 14d. Name<br>Tan Ct.at Pang  |                | 14e. Date (dd mmm yyyy)<br>16 OCT 2017                                     |  |
| <b>USER/INSTALLER RESPONSIBILITIES</b><br>This certificate <b>does</b> not automatically constitute authority to install the Item(s).<br><br>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.<br><br>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<br><br><b>SINGAPORE</b>  | 2. <b>CIVIL AVIATION AUTHORITY OF SINGAPORE</b><br><b>AUTHORIZED RELEASE CERTIFICATE</b><br><b><u>CAAS(AW)95</u></b> | 3. Fann Tracking Number:<br>20170003775335<br>330053309W0                      |
| 4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd<br>{Gui Circle}<br>161 Gui Circle<br>Singapore 629619 |  | 5. Work Order/Contract/Invoice Number:<br>10453748<br>330006248<br>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/<br>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

|   |  |
|---|--|
| <b>18. WPARTS</b><br>Certifies that the parts identified above were manufactured in conformity to:<br><input checked="" type="checkbox"/> Approved design data and are in condition for safe operation<br><input type="checkbox"/> Non-approved design data specified in Block 13 | <b>19. USED PARTS</b><br>SAR-145.50 Release to Service <input checked="" type="checkbox"/> Other regulation specified in Block 13.<br>Certifies that unless otherwise specified in Block 13, the work identified in Block_12 as described in Block13 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: | 20. Authorized Signature:<br><br><i>t ?t</i><br>16. " | 1. CAAS Approval No.:<br><br><b>AWI/38</b> |
| 17. Name (Type printed):  | 18. Date (dd mmm yyyy)<br><br>Tan Chat Pang           | 23. Date (dd mmm yyyy):<br><br>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:<br><b>FAA/United States</b>  |                          | 2. <b>AUTHORIZED RELEASE CERTIFICATE</b><br><b>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b> |              |                    | 3. Form Tracking Number:<br>20170003776330Y03<br>330053309                     |  |
| 4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd<br>(Gui Circle)<br>161 Gui Circle<br>Singapore 629619 |                          |  |              |                    | 5. Work Order/Contract/Invoice Number:<br>10453748<br>330006248<br>Page 1 of 1 |  |
| 6. Item:  | 7. Description:          | 8. Part Number:  | 9. Quantity: | 10. Serial Number: | 11. Status / Work:   |  |
| 001   | SENSOR, LOW OIL QUANTITY | 3876211-3  |              | NIA                | INSPECTED  |  |

12. 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/AMDS:NIL  
MODS: NIL

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

|  |                                  |  |  |
|--|----------------------------------|--|--|
| <input checked="" type="radio"/> Certifies the items identified above were manufactured in conformity to:<br>design data and are in a condition for <b>safe</b> operation.<br><input type="radio"/> Non-approve sign data specified in Block 12. |                                  | 14a. <input checked="" type="radio"/> 14 CFR 43.9 Return to Service <input type="radio"/> Other regulation specified in Block 12<br>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:<br>"Tan Chat Pang"  | 4c. Approval/Certificate No.:<br><b>FT4V192M</b> |
| 13d. Name (Typed or Printed):  | 13e. Date(dd/mmm/yyyy):          | 14d. Name (Typed or Printed):<br><b>Tan Chat Pang</b>  | 14e. Date (dd/mmm/yyyy):<br><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 Block1, 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 Block1. 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<br><br>EASA   |                          | 2.<br><div>AUTHORISED RELEASE CERTIFICATE</div> <div>EASA FORM 1</div> |   |                | 3. Form Tracking Number<br>20170003776329Y02<br>330053309                  |  |
| 4. Organisation Name and Address: Honeywell Aerospace Singapore Pte Ltd<br>(Gui Circle)<br>161 Gui Circle<br>Singapore 629619  |                          |  |   |                | 5. Work Order/Contract/Invoice<br>10453748<br><br>330006248<br>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  |  |
| 12. Remarks<br>THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:<br>CMM 49-93-11 Rev O, NOV/19/2010<br>UNIT TESTED.<br>ALTERNATE SN OtrrGOING : 97424-DTP1471<br>SERIES/ISSUE/AMDTs:NIL<br>MODS: NIL   |                          |  |   |                |  |  |
| 13a. Certifies that the items identified above were manufactured in conformity to:<br>approved design data and are in condition for safe operation<br>non-approved data specified in block 12  |                          |  | 14a. (21 Part-145.A.50 Release to Service D Other regulation specified in block 12<br>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  |                          |  | 14b. Authorised Signature<br>azt:z.<br>J' <:-<br>i 76 mll;  |                | 14c. Certificate/Approval Ref. No<br>EASA.145.0076                         |  |
| 13e. Date (dd mmm yyyy)  |                          |  | 14d. Name<br>Tan Chat Pang  |                | 14e. Date (dd mmm yyyy)<br>16 OCT 2017                                     |  |
| USEMNSTALLER RESPONSIBILITIES<br>This certificate does not automatically constitute authority to Install the Item(s).<br><br>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.<br><br>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:<br><b>FAA/United States</b>  |                 | 2. <b>AUTHORIZED RELEASE CERTIFICATE</b><br><b>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b> |           |                            | 3. Form Tracking Number:<br>20170003776340Y03<br>330052916 |  |
| 4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd<br>(Gui Circle)<br>161 Gui Circle<br>Singapore 629619 |                 |  |           | Repair Station<br>FT4Y192M |  |  |
| 5. Work Order/Contract/Invoice Number:<br>10453748<br>330006248<br>Page 1 of 1  |                 |  |           |                            |  |  |
| 6.Item:   | 7. Description: | 8. Part Number:  | 9. Quanti | 10. Serial Number:         | 11. Status / Work:   |  |
| 001   | COOLER          | 160488-2   | 1         | 1664                       | INSPECTED  |  |

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

|   |                                  |  |   |
|---|----------------------------------|--|---|
| <input checked="" type="checkbox"/> The items identified above were manufactured in conformity to:<br>ed design data and are in a condition for safe operation. |                                  | 14a. [g] 14 CFR 43.9 Return to Service <b>D</b> Other regulation specified in Block 12<br>Certifies that unless otheiwise 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:<br><i>t,,,f,,,jt;Z</i> <i>Wk;,,</i><br><i>{ ,</i>   | 14c. Approval/Certificate No.:<br><b>FT4Y192M</b> |
| 13d. Name (Typed or Printed):   | 13e. Date(dd/mmm/yyyy):          | 14d. Name (Typed or Printed):<br><b>Tan Chat Pang</b>  | 14e. Date (dd/mmm/yyyy):<br><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 aiworthiness authority different than the aiworthiness authority of the country specified in Block1, it is essential that the user/installer ensures that his/her aiworthiness authority accepts aircraft engine(s)/propeller(s)article(s) from the aiworthiness authori of the country specified in Block1. 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<br><br>EASA  |                | 2.<br><br><b>AUTHORISED RELEASE CERTIFICATE</b><br><br><b>EASA FORM 1</b> |  |  | 3. Form Tracking number<br>20170003776339Y02<br>330052916                  |
| 4. Organisation Name and Address: Honeywell Aerospace Singapore Pte Ltd<br>(Gui Circle)<br>161 Gui Circle<br>Singapore 629619   |                |   |  |  | 5. Work Order/Contract/Invoice<br>10453748<br><br>330006248<br>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  |
| 12. Remarks<br>THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:<br>CMM 49-94-22 Rev 1, OCT/30/2004<br>ORI R00389 Rev A, JAN/22/2016<br>UNIT TESTED.  |                |   |  |  |  |
| Certifies that the items identified above were manufactured in conformity to:<br>approved design data and are in condition for safe operation<br>non-approved data specified in block 12  |                |   | 14a 1;21 Part-145.A.50 Release to Service <b>D</b> Other regulation specified in block 12<br>Certifies that unless otherwise specified in block 12, the work identified in block 11<br>and described in block 12, was accomplished in accordance with Part-145 and in<br>respect to that work the items are considered ready for release to service. |  |  |
| 13b. Authorised Signature   |                |   | 14b. Authorised Signature<br>   | 14c. Certificate/Approval Ref. No<br><br>EASA.145.0076 |  |
| 13e. Date(dd mmmmyyyy)  |                |   | 14d. Name<br><br>Tan Chat Pang   | 14e. Date (dd mmm yyyy)<br><br>16 OCT 2017             |  |
| <b>USER/INSTALLER RESPONSIBILITIES</b><br>This certificate does not automatically constitute authority to install the item(s).<br><br>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.<br><br>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

SINGAPORE

2.

CIVIL AVIATION AUTHORITY OF SINGAPORE

3. Form Tracking Number:

g6bg 16338Yoe

AUTHORIZED RELEASE CERTIFICATE

CAAS(AW)95

4. Organization Name and Address:

Honeywell Aerospace Singapore Pte Ltd

Repair Station

(Gui Circle)

AWI/38

161 Gui Circle

Singapore 629619

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     | APU OIL TEMP VALVE | 160536-1        | NIA              | 1             | 1508                       | INSPECTED/<br>TESTED |

13. Remarks:

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:

CMM 4 -94-26 Rev 3, DEC/29/2006

UNIT TESTED.

SERIES/ISSUE/AMDTs:2

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

PARTS

Items identified above were manufactured in conformity to:

Appro design data and are in condition for safe operation

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

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

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:

1. CMS Approval No.:

AWI/38

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<br>Authority/Country:<br><b>FAA/United States</b>   |                    | 2. <b>AUTHORIZED RELEASE CERTIFICATE</b><br><b>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b> |              |                    | 3. Form Tracking Number:<br>20170003776337Y03<br>330052918                     |  |
| 4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd<br>(Gui Circle)<br>161 Gui Circle<br>Singapore 629619<br>Repair Station<br>FT4Y192M |                    |  |              |                    | 5. Work Order/Contract/Invoice Number:<br>10453748<br>330006248<br>Page 1 of 1 |  |
| 6.Item:   | 7. DescriDtion:    | 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

|   |                                  |   |   |
|---|----------------------------------|---|---|
| <div><div>• les the items identified above were manufactured in conformity to:<br/><b>D</b> ed design data and are in a condition for safe operation.<br/><b>D</b> Non-approv esign data specified in Block 12.</div></div> |                                  | 14a. 4 CFR 43.9 Return to Service <b>D</b> Other regulation specified in Block 12<br>Certifies th t 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:<br><div>W.C.<br/>QC,<br/>1 ..</div>  | 14c. Approval/Certificate No.:<br><b>FT4Y192M</b> |
| 13d. Name (Typed or Printed):   | 13e. Date(dd/mmm/yyyy):          | 14d. Name (Typed or Printed):<br><b>Tan ChatjPang</b>   | 14e. Date (dd/mmm/yyyy):<br><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 SP.ecified in Block1, 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 Block1. 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.  
FAA FORM 8130- 3 (02-14) NSN: 0052 - 00- 012- 9005


|   |                    |  |   |                |  |  |
|---|--------------------|--|---|----------------|--|--|
| 1. Approving Competent Authority/Country<br><br>EASA  |                    | 2.<br><br><b>AUTHORISED RELEASE CERTIFICATE</b><br><br>EASA FORM 1 |   |                | 3. Form Tracking Number<br>20170003776336Y02<br>330052918                  |  |
| 4. Organisation Name and Address: Honeywell Aerospace Singapore Pte Ltd<br>(Gui Circle)<br>161 Gui Circle<br>Singapore 629619   |                    |  |   |                | 5. Work Order/Contract/Invoice<br>10453748<br><br>330006248<br>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  |  |
| 12. Remarks<br>THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:<br>CMM 49-94-26 Rev 3, DEC/29/2006<br>UNIT TESTED.<br>SERIES/ISSUE/AMDTS:2   |                    |  |   |                |  |  |
| Certifies that the items identified above were manufactured in conformity to:<br>approved design data and are in condition for safe operation<br>non-approved data specified in block 12  |                    |  | 14a i;zJ Part-145.A.50 Release to Service <input checked="" type="checkbox"/> Other regulation specified in block 12<br>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<br>   |                    |  | 14b. Authorised Signature<br>  |                | 14c. Certificate/Approval Ref. No<br>SA.145.0076                           |  |
| 13e. Date (dd mmm yyyy)   |                    |  | 14d. Name<br>Tan Chat Pang  |                | 14e. Date (dd mmm yyyy)<br>1E OCT 2017                                     |  |
| <b>USER/INSTALLER RESPONSIBILITIES</b><br>This certificate does not automatically constitute authority to install the item(s).<br><br>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.<br><br>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<br><br>EASA   |                | 2.<br><br><b>AUTHORISED RELEASE CERTIFICATE</b><br><br><b>EASA FQRM 1</b> |   |                | 3. Form Tracking number<br>20170003776360Y02<br>330052974                  |                         |
| 4. Organisation Name and Address: Honeywell Aerospace Singapore Pte Ltd<br>{Gui Circle}<br>161 Gui Circle<br>Singapore 629619  |                |   |   |                | 5. Work Order/Contract/Invoice<br>10453748<br><br>330006248<br>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   |                         |
| 12. Remarks<br>THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:<br>CMM 49-91-57 Rev 7, SEP/04/2007<br><br>CSR            HH.DD        (HH:MM)<br>CSR            0.00<br>TSR            0.00        (0:00)<br>SERIES/ISSUE/AMDTS:2<br>MODS: NIL  |                |   |   |                |  |                         |
| 13a. Certifies that the items identified above were manufactured in conformity to:<br>appro        esign data and are in condition for safe operation<br>data specified in block 12  |                |   | 14a. (;;zl Part-145.A.50 Release to Service D Other regulation specified in block 12<br>Certifies that unless otherwise specified in block 12, the work identified in block 11<br>and described in block 12, was accomplished in accordance with Part-145 and in<br>respect to that work the items are considered ready for release to service. |                |  |                         |
| 13b. Authorised Signature  |                |   | 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><br>This certificate does not automatically constitute authority to Install the item(s).<br><br>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.<br><br>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<br>Authority/Country:<br><b>FAA/United States</b>  |                  | 2. <b>AUTHORIZED RELEASE CERTIFICATE</b><br><b>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b> |           |   | 3. Form Tracking Number:<br>20170003776370Y03<br>330053804 |  |
| 4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd<br>(Gui Circle)<br>161 Gui Circle<br>Singapore 629619  |                  |  |           | Repair Station<br>FT4Y192M  |  | 5. Work Order/Contract/Invoice Number:<br>10453748<br>330006248<br>Page 1 of 1 |
| 6. Item:   | 7. Description:  | 8. Part Number:  | 9. Quant' | 10. Serial Number:  | 11. Status / Work:   |  |
| 001  | VALVE CHECK, APU | 3202854-1  | 1         | 1401  | REPAIRED   |  |
| 12. Remarks:<br>THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:<br>CMM 49-53-69 Rev 0, MAY/31/2001<br>ORI W01053 Rev-, MAR/20/2009<br><br>HH,DD (HH:MM)<br>CSR 0.00<br>TSR 0.00 (0:00)<br><br>SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED<br><br><div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <ul style="list-style-type: none"> <li>• Unless the items identified above were manufactured in conformity to:<br/> <input checked="" type="checkbox"/> <b>D</b> ed design data and are in a condition for safe operation.<br/> <input type="checkbox"/> <b>D</b> Non-approval sign data specified in Block 12.</li> </ul> </div> <div style="width: 50%;"> 14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <b>D</b> Other regulation specified in Block 12<br/> 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. </div> </div> |                  |  |           |   |  |  |
| 13b. Authorized Signature:   |                  | 13c. Approval/Authorization No.:   |           | 14b. Authorized Signature:  |  | 14c. Approval/Certificate No.:   |
|  |                  |  |           | <br>C? |  | <b>FT4Y192M</b>  |
| 13d. Name (Typed or Printed):  |                  | 13e. Date(dd/mmm/yyyy):  |           | 14d. Name-(Typed or Printed):   |  | 14e. Date (dd/mmm/yyyy):   |
|  |                  |  |           | <b>Tan Chat Pang</b>  |  | <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<br><br>EASA  |                  | 2.<br><br><b>AUTHORISED RELEASE CERTIFICATE</b><br><br>EASA FORM 1 |  |                | 3. Form Tracking Number<br>20170003776369Y02<br>330053804                  |
| 4. Organisation Name and Address: Honeywell Aerospace Singapore Pte Ltd<br>(Gui Circle)<br>161 Gui Circle<br>Singapore 629619   |                  |  |  |                | 5. Work Order/Contract/Invoice<br>10453748<br><br>330006248<br>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   |
| 12. Remarks<br>THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:<br>CMM 49-53-69 Rev 0, MAY/31/2001<br>ORI W01053 Rev-, MAR/20/2009<br><br><div> <div>HH.DD (HH:MM)</div> <div>CSR 0.00</div> <div>TSR 0.00 (0 :00)</div> </div>  |                  |  |  |                |  |
| 13a. Items that the Items identified above were manufactured in conformity to:<br>design data and are in condition for safe operation<br>non-approved data specified in block 12  |                  |  | 14a f;2] Part-145.A.50 Release to Service <b>D</b> Other regulation specified in block 12<br>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<br><br>_ _ _  |                  |  | 14b. Authorised Signature<br><br>_ _ _   |                | 14c. Certificate/Approval Ref. No<br><br>EASA.145.0076                     |
| 13e. Date (dd mmm yyyy)<br><br>16 OCT 2017  |                  |  | 14d. Name<br>Tan Chat Pang   |                | 14e. Date (dd mmm yyyy)<br>16 OCT 2017                                     |
| <b>USER/INSTALLER RESPONSIBILITIES</b><br>This certificate <b>does</b> not automatically constitute authority to install the Item(s).<br><br>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.<br><br>Statements in blocks 13a and 14a do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification <b>issued</b> in accordance with the national regulations by the user/installer before the aircraft may be flown. |                  |  |  |                |  |



|   |  |   |              |   |                    |
|---|--|---|--------------|---|--------------------|
| 1. Approving Civil Aviation Authority/Country:<br><b>FAA/United States</b>  |  | 2.<br><b>AUTHORIZED RELEASE CERTIFICATE<br/>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b>   |              | 3. Fonn Tracking Number.<br>20170003709523Y14<br>9001534777-10                    |                    |
| 4. Organization Name and Address: <b>HONEYWELL INTERNATIONAL INC</b><br>1720 East Grant Street<br>PHOENIX AZ 85034  |  |   |              | 5. Work Order/Contract/Invoice Number:<br><b>20170003709523Y14</b><br>Page 1 of 1 |                    |
| 6. Item:  | 7. Description:  | 8. Part Number:   | 9. Quantity: | 10. Serial Number:  | 11. Status / Work: |
| 001   | SENSOR, TEMPERATURE                                      | 70722134-1  | 6            | NIA   | NEW                |
| 12. Remarks:<br>AIRWORTHINESS <b>APPROVAL</b> .<br>THIS SENSOR, TEMPERATURE IS A SUBCOMPONENT OF A.TSO AUTHORIZATION.<br>SERIALIZATION NOT REFERENCED IN BLOCK 10 IS NOT REQUIRED OR TRACEABLE BY<br>HONEYWELL INTERNATIONAL INC. REFERENCE FAA ORDER 8130.21 |  |   |              |   |                    |
| 13a. Certifies the Items Identified above were manufactured in conformity to:<br><input type="checkbox"/> Approved design data and are in condition for safe operation.<br><input type="checkbox"/> Non-approved design data specified in Block 12.           |  | 14a. <input checked="" type="checkbox"/> 14CFR 43.9 Return to Service <b>D</b> Other regulation specified in Block 12<br><b>Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 is accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect that work, the items are saved for return to service.</b> |              |   |                    |
| 13b. Authorized Signature:<br>....., _----H L_  | 13c. Approval/Authorization No.:<br><b>ODA-602216-NM</b> | 14b. Authorized Signature:  |              | 14c. Approval/Certificate No.:  |                    |
| 13d. Name (Typed or Printed):<br><b>Monica Hughes</b>   | 13a. Date (dd/mm/yyyy):<br><b>29/SEP/2017</b>            | 14d. Name (Typed or Printed):   |              | 14e. Date(dd/mm/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 work is in accordance with the national regulations of the country specified in Block 1. Statements in Blocks 13a and 14a do not constitute installation of the aircraft engine/propeller/article. **THE AIRCRAFT MAY BE FLOWN.**

FM FORM 8130-3 (O - , J)


NSN: 0052-00-012-8005

|  |                           |   |   |                               |  |                                |
|--|---------------------------|---|---|-------------------------------|--|--------------------------------|
| 1. Approving Civil Aviation-<br>Authority/Country:<br><b>FAA/United States</b>   |                           | 2.<br><b>AUTHORIZED RELEASE CERTIFICATE</b><br><b>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b> |   |                               | 3. Form Tracking Number:<br>20170003679838Y14<br>9001519870-10             |                                |
| 4. Organization Name and Address: HONEYWELL INTERNATIONAL INC 1720 East Grant Street' PHOENIX AZ 85034<br>Production Approval PT1222NM   |                           |   |   |                               | 5. Work Order/Contract/Invoice Number:<br>4207577675-000010<br>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:<br>AIRWORTHINESS APPROVAL.<br>THIS IGNITOR. PLUG, LOW VOLTAGE IS A SUBCOMPONENT OF A TSO AUTHORIZATION.<br>SERIALIZATION NOT REFERENCED IN BLOCK 10 IS NOT REQUIRED OR TRACEABLE BY<br>HONEYWELL INTERNATIONAL INC. REFERENCE FAA ORDER 8130.21 |                           |   |   |                               |  |                                |
| 13a. Certifies the items identified above were manufactured in conformity to:<br><input type="checkbox"/> Approved design data and are in a condition for safe operation.<br><input type="checkbox"/> Non-approved design data specified in Block 12.        |                           |   | 14a. <input type="checkbox"/> 14 CFR 43.9 Return to Service<br>Other regulation specified in Block 12<br>Certifies that all items specified in Block 12, the items specified in Block 11 and described in Block 12 are accomplished in accordance with Title 14 of Federal Regulations, part 43 and in response to that work, the items are approved for return to service. |                               |  |                                |
| 13b. Authorized Signature:<br><br>-111 -f>'Mwr--   |                           | 13c. Approval/Authorization No.:<br><br>ODA-602216-NM   |   | 14b. Authorized Signature:    |  | 14c. Approval/Certificate No.: |
| 13d. Name (Typed or Printed):<br><b>Margo Marion</b>   |                           | 13e. Date (dd/mm/yyyy):<br><b>25/SEP/2017</b>   |   | 14d. Name (Typed or Printed): |  | 14e. Date(dd/mm/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 approval.



|  |   |  |              |  |                    |
|--|---|--|--------------|--|--------------------|
| 1. Approving Civil Aviation Authority/Country:<br><b>FAA/United States</b>   |   | 2.<br><b>AUTHORIZED RELEASE CERTIFICATE</b><br><b>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b>  |              | 3. Form Tracking Number:<br>20170003747692Y14<br>9001538389-80001  |                    |
| 4. Organization Name and Address:<br>Honeywell International Inc.<br>111 S. 34th Street<br>Phoenix, Arizona 85072  |   | Production Approval<br>PT1222NM  |              | Honeywell International Inc.<br>Units 2-4, Chevron, Eaton Road<br>Hemel Hempstead, HP2 7UB<br>UNITED KINGDOM |                    |
| 5. Work Order/Contract/Invoice Number:<br>4705213717-000010<br>Page 1 of 1   |   |  |              |  |                    |
| 6.Item:  | 7. Description:                                   | 8. Part Number:  | 9. Quantity: | 10. Serial Number:   | 11. Status / Work: |
| 001  | VALVE, BY-PASS                                    | 4132029-3  | 1            | N/A  | NEW                |
| 12. Remarks:<br>AIRWORTHINESS APPROVAL.<br>THIS VALVE, BY-PASS IS A SUBCOMPONENT OF A TSO AUTHORITY.<br>SERIALIZATION NOT REFERENCED IN BLOCK 10 IS NOT REQUIRED OR TRACEABLE BY HONEYWELL INTERNATIONAL INC. REFERENCE FAA ORDER 8130,21<br><br>BATCH NUMBER:0004794647   |   |  |              |  |                    |
| 13a. Certifies the items identified above were manufactured in conformity to:<br><br><input type="checkbox"/> Approved design data and are in a condition for safe operation.<br><br><input type="checkbox"/> Non-approved design data specified in Block 12.  |   | 14a. <input type="checkbox"/> 14 CFR 43.9 Return to Service<br>Other regulation specified in Block 12<br>Certifies that the work identified in Block 12, the work identified in Block 11 and described in Block 12, is accomplished in 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:<br>  | 13c. Approval/Authorization No.:<br>ODA-602216-NM | 14b. Authorized Signature:   |              | 14c. Approval/Certificate No.:   |                    |
| 13d. Name (Typed or Printed):<br>Neelman Singh   | 13e. Date (dd/mm/yyyy):<br>09/OCT/2017            | 14d. Name (Typed or Printed):  |              | 14e. Date(dd/mm/yyyy):   |                    |
| <b>User/ Installer Responsibilities</b><br>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 Certificate. In accordance with the regulations of the country specified in Block 1, the user/installer shall be responsible for the work performed and the items returned to service.<br>FAA FORM 8130- 3 (02-14) |   |  |              |  |                    |



|   |                               |  |  |  |                    |
|---|-------------------------------|--|--|--|--------------------|
| 1. Approving Civil Aviation Authority/Country:<br><b>FAA/United States</b>  |                               | 2.<br><b>AUTHORIZED RELEASE CERTIFICATE</b><br><b>FAA Forni 8130-3, AIR ORTHINESS APPROVAL TAG</b> |  | 3. Form Tracking Number:<br>20170003723800Y14<br>9001541024-80008  |                    |
| 4. Organization Name and Address: Honeywell International Inc..<br>111 S. 34th Street<br>Phoenix, Arizona 85072   |                               | Production Approval<br><b>PT1222NM</b>   |  | Honeywell International Inc.<br>Units 2-4, Chevron, Eaton Road<br>Hemel Hempstead, HP2 7UB<br>UNITED KINGDOM |                    |
| 5. Work Order/Contract/Invoice Number:<br>4705215740-000010<br>Page 1 of 1  |                               |  |  |  |                    |
| 6. Item:  | 7. Description:               | 8. Part Number:  | 9. Quantity:   | 10. Serial Number:   | 11. Status / Work: |
| 001   | DIFFERENTIAL PRESS TRANSDUCER | 3876219-2  | 2  | 1715047182602<br>See Continuation  | NEW                |
| 12. <b>Remarks:</b><br><b>AIRWORTHINESS APPROVAL.</b><br>THIS DIFFERENTIAL PRESS TRANSDUCER IS A SUBCOMPONENT OF A TSO<br><b>AUTHORIZATION.</b><br>Block 10 Serial Number(s) : (Continued) :<br>1715047182601-.   |                               |  |  |  |                    |
| 13a. Certifies the items Identified above were manufactured in conformity to:<br><br>181 Approved design data and are in a condition for safe operation.<br>O Non-approved design data specified in Block 12.   |                               |  | 14a. <input type="checkbox"/> 14 CFR 43.9 Return to Service<br>Certifies that un otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14 of Federal Regulations, part 43 and in respect that work, the items are approved for return to service. |  |                    |
| 13c. Approval/Authorization No.:<br><b>ODA-602216- M</b>  |                               | 14b. Authorized Signature:   |  | 14c. Approval/Certificate No.:   |                    |
| 13d. Name (Typed or Printed):<br><b>Anthony Marzec</b>  |                               | 13e. Date (dd/mm/yyyy):<br><b>03/OCT/2017</b>  |  | 14d. Name (Typed or Printed):  |                    |
|   |                               |  |  | 14e. Date(dd/mm/yyyy):   |                    |
| <b>User/ Installer Responsibilities</b><br>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 authorization. Bases aircraft 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 .<br>Authority/Country:<br><b>FAA/United States</b>  |                 | 2.<br><b>AUTHORIZED RELEASE CERTIFICATE</b><br><b>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b> |   |  | 3. Form Tracking Number:<br>20170003741857Y14<br>9001547655-80012 |  |
| 4. Organization Name and Address:<br>Honeywell International Inc.<br>111 S. 34th Street<br>Phoenix, Arizona 85072  |                 | Production Approval<br>PT1222NM   |   | Honeywell International Inc.<br>Units 2-4, Chevron, Eaton Road<br>Hemel Hempstead, HP2 7UB<br>UNITED KINGDOM |   | 5. Work Order/Contract/Invoice Number:<br>4705221083-000010<br>Page 1 of 1 |
| 6. Item:   | 7. Description: | 8. Part Number:   | 9. Quantity:  | 10. Serial Number:   | 11. Status / Work:  |  |
| 001  | FILTER, GEN.    | 4132030-3   |   | N/A  | NEW   |  |
| 12. Remarks:<br>AIRWORTHINESS APPROVAL.<br>THIS FILTER, GEN. IS A SUBCOMPONENT OF A TSO AUTHORIZATION.<br>SERIALIZATION NOT REFERENCED IN BLOCK 10 IS NOT REQUIRED OR TRACEABLE BY<br>HONEYWELL INTERNATIONAL INC. REFERENCE FAA ORDER 8130.21<br><br>BATCH NUMBER: 0004992143   |                 |   |   |  |   |  |
| 13a. Certifies the items identified above were manufactured in conformity to:<br><br>D Approved design data and are in a condition for safe operation.<br>N Non-approved design data specified in Block 12.  |                 |   | 14a. <input type="checkbox"/> 14 CFR 43.9 Return to Service <input checked="" type="checkbox"/> D Other regulation specified in Block 12<br>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 of Federal Regulations, part 43 and in respect that work, the items are approved for return to service. |  |   |  |
| 13b. Authorized Signature:<br><br>- .4 -   |                 | 13c. Approval/Authorization No.:<br><br>ODA-602216-NM   |   | 14b. Authorized Signature:   |   | 14c. Approval/Certificate No.:   |
| 13d. Name (Typed or Printed):<br>Stephen Foulger   |                 | 13e. Date (dd/mm/yyyy):<br>06/OCT/2017  |   | 14d. Name (Typed or Printed):  |   | 14e. Date (dd/mm/yyyy):  |
| <b>User/ Installer Responsibilities</b><br>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.<br>FAA Form 8130-3 (02-14) |                 |   |   |  |   |  |

