

SINGAPORE AIRLINES LIMITED

Shop Visit History Report

Page 1 of 1

Rev.No. :

IIN: Z3512

Serial Number: 12-168522-01912

Part Number: 3842155-4

Item No	Part No	Part TSN	Part CSN	Part TSO	Part CSO	Part TSR	Part CSR	Fitment/ Removal	Date	Parent Serial Number	Parent TSN	Parent CSN	Visit Remarks
1	3842155-4	0	0	0	0	0	0	FITMENT	28-Jun-2013	P2273	0	0	
2	3842155-4	7184	4819	7184	4819	7184	4819	REMOVAL	16-Sep-2017	P2273	7184	4819	OVERHAUL
3	3842155-4	7184	4819	0	0	0	0	FITMENT	17-Oct-2017	P2273	7184	4819	OVERHAUL-ARC 330066785

\*\*\* End Of Report \*\*\*





## Shop Visit History Report

IIN: Z0000

Serial Number: P2273

Part Number: 3800550-1

Item No	Part No	Part TSN	Part CSN	Part TSO	Part CSO	Fitment/ Removal	Date	A/C Regn	Position	TSN	CSN	Visit No.	Visit Remarks
1	3800550-1	0	0	0	0	FITMENT	28-Jun-2013	SWU	APU	0	0	20131009001	
2	3800550-1	7184	4819	7184	4819	REMOVAL	16-Sep-2017	SWU	APU	19991	2377	20171101001	OVERHAUL
3	3800550-1	7184	4819	0	0	FITMENT	17-Oct-2017	-		0	0	20171101001	OVERHAULED BY HONEYWELL W/O 5011527375
4	3800550-1	7186	4825	2	6	REMOVAL	17-Oct-2017	-		2	6	20171101002	DMM HRS/CYCS RELEASED AFTER APU FINAL TESTING
5	3800550-1	7186	4825	2	6	FITMENT	15-Nov-2017	SNB	APU	11340	1341	20171101002	-

\*\*\* End Of Report \*\*\*



[illegible][illegible]

AX6167-4

# Configuration Report

**honeywell**

Material Number 3800550-1  
Material Desc ENGINE OUTLINE GAS TURBINE

Serial Number P-2273

Mfg. Revision AC

ESS - Engines - Phoenix  
Honeywell International Inc  
111 South 34th Street  
PHOENIX AZ 85072  
USA

BOM	Material	Material Description	Rev	Serial Number	Lot Number	Batch	Ref.Des	Quantity
3	3842153-3	BLADE, TURBINE ROTOR, FIRST STAGE		12M50591	ES-2087			1,0
3	3842153-3	BLADE, TURBINE ROTOR, FIRST STAGE		12M51469	ES-2086			1,0
3	3842153-3	BLADE, TURBINE ROTOR, FIRST STAGE		12M51470	ES-2086			1,0
3	3842153-3	BLADE, TURBINE ROTOR, FIRST STAGE		12M65188	ES-2101			1,0
3	3842153-3	BLADE, TURBINE ROTOR, FIRST STAGE		12M65189	ES-2101			1,0
3	3842153-3	BLADE, TURBINE ROTOR, FIRST STAGE		12M65754	ES-2101			1,0
3	3842153-3	BLADE, TURBINE ROTOR, FIRST STAGE		12M65756	ES-2101			1,0
3	3842153-3	BLADE, TURBINE ROTOR, FIRST STAGE		12M65757	ES-2101			1,0
3	3842153-3	BLADE, TURBINE ROTOR, FIRST STAGE		12M65758	ES-2101			1,0
3	3842153-3	BLADE, TURBINE ROTOR, FIRST STAGE		12M65759	ES-2101			1,0
3	3842152-1	DISK, ROTOR, TURBINE FIRST STAGE	G	12-168522-01537	122101293			1,0
4	3610894-5	DISK SOLID PLAIN		12-168522-01537	5014379275			1,0
3	3842154-1	PLATE, SEAL		12-182449-05478	12-182449-A14			1,0
2	3842155-4	ROTOR ASSY TURB - 2STG	B	12-168522-01912	P4055173			1,0
3	3842329-4	BLADE, TURBINE ROTOR SECOND STAGE	N	11M68667	HM-3110			1,0
4	3842329-4C	CASTING-BLADE COATED	-			0001517255		1,0
3	3842329-4	BLADE, TURBINE ROTOR SECOND STAGE	N	11M68767	HM-3110			1,0
4	3842329-4C	CASTING-BLADE COATED	-			0001517255		1,0
3	3842329-4	BLADE, TURBINE ROTOR SECOND STAGE	N	11M68777	HM-3110			1,0
4	3842329-4C	CASTING-BLADE COATED	-			0001546682		1,0
3	3842329-4	BLADE, TURBINE ROTOR SECOND STAGE	N	12M35784	HM-3110			1,0
4	3842329-4C	CASTING-BLADE COATED	-			0001546682		1,0
3	3842329-4	BLADE, TURBINE ROTOR SECOND STAGE	N	12M37044	HM-3110			1,0
4	3842329-4C	CASTING-BLADE COATED	-			0001546682		1,0
3	3842329-4	BLADE, TURBINE ROTOR SECOND STAGE	N	12M41760	HM-3110			1,0

Subject to U.S. Export Regulations

11.06.2013

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# Configuration Report

# Honeywell

Material Number 3800550-1  
Material Desc ENGINE OUTLINE GAS TURBINE

Serial Number P-2273  
Mfg. Revision AC

ESS - Engines - Phoenix  
Honeywell International Inc  
111 South 34th Street  
PHOENIX AZ 85072  
USA

BOM	Material	Material Description	Rev	Serial Number	Lot Number	Batch	Ref.Des	Quantity
4	3842329-4C	CASTING-BLADE COATED	-			0001579043		1,0
3	3842329-4	BLADE, TURBINE ROTOR SECOND STAGE	N	13M02147	HM-3110			1,0
4	3842329-4C	CASTING-BLADE COATED	-			0001579029		1,0
3	3842329-4	BLADE, TURBINE ROTOR SECOND STAGE	N	13M05275	HM-3110			1,0
4	3842329-4C	CASTING-BLADE COATED	-			0001579029		1,0
3	3842329-4	BLADE, TURBINE ROTOR SECOND STAGE	N	13M07177	HM-3110			1,0
4	3842329-4C	CASTING-BLADE COATED	-			0001579029		1,0
3	3842329-4	BLADE, TURBINE ROTOR SECOND STAGE	N	13M07277	HM-3110			1,0
4	3842329-4C	CASTING-BLADE COATED	-			0001579029		1,0
3	3842156-1	DISK, TURBINE, STAGE 2	F	12-168522-01912	131034067			1,0
4	3610894-6	DISK SOLID PLAIN	AA	12-168522-01912				1,0
3	3842158-1	SEAL, ROTATING, SECOND STAGE	D	12-162053-49043	131034092			1,0
4	3840180-1	SEAL ROTATING	-	12-162053-49043				1,0
2	3842160-6	TURBINE ROTOR ASSY 3RD STAGE	F	12-156101-09303	131034067			1,0
3	3840247-9	PIN DISK TUBULAR						34,0
3	3842160-910	PRE MACH	F	12-156101-09303				1,0
4	3842160-961H	PRE-MACH				0001480497		1,0
2	3844471-7	NOZZLE ASSY TURB - 2STG			P4131780			1,0
2	3844476-2	NOZZLE ASSEMBLY, TURBINE THIRD STAGE			122101132			1,0
2	3844490-3	RING CONTAINMENT			13-5060-133			1,0
2	3844622-6	NOZZLE ASSY TURB		6004147574				1,0
2	3876214-2	THERMOCOUPLE EXHAUST		1315027700131				1,0
2	3876214-2	THERMOCOUPLE EXHAUST		1315027700133				1,0
2	3876214-2	THERMOCOUPLE EXHAUST		1315027700176				1,0
2	3876214-2	THERMOCOUPLE EXHAUST		1315027700180				1,0

Subject to U.S. Export Regulations

11.06.2013

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Due A/F hours/cycles for APU life limited parts at installation 0 / 0

APU Description : AUXILIARY POWER UNIT

Part Number : 3800550-1

Serial number : P2273

IIN : Z0000

Aircraft Reg : SWU

Position : APU

Date Installed : 28-Jun-2013

TSN / CSN(at installation) : 0 / 0

TSLV / CSLV : - / -

Remarks :

Item No	ATA Chapter	Position	IIN	Part Number	Part Description	Serial Number	TSO# LL(HR)	CSO# LL(CYC)	TSN	CSN	Airframe due Hours	Cycles
1	49-00-00	APU	Z0000	3800550-1	AUXILIARY POWER UNIT	P2273	0	0	0	0	NA	NA
2	49-23-00		Z3311	3822611-1	IMPELLER COMPRESSOR 1ST STAGE	13-182449-08502		27000 *	0	0		27000
3	49-23-00		Z3312	3822341-5	IMPELLER, COMPRESSOR 2ND STG	13-182449-08511		27000 *	0	0		27000
4	49-23-00		Z3313	3822612-1	IMPELLER COMPRESSOR LOAD	13-182449-08188		27000 *	0	0		27000
5	49-25-00		Z3511	3842151-3	ROTOR ASSEMBLY, 1ST STAGE	12-168522-01537		27000 *	0	0		27000
6	49-25-00		Z3512	3842155-4	ROTOR ASSEMBLY, 2ND STAGE	12-168522-01912		27000 *	0	0		27000
7	49-25-00		Z3513	3842160-6	ROTOR ASSEMBLY, 3RD STAGE	12-156101-09303		27000 *	0	0		27000

\*\*\* End Of Report \*\*\*



Note : # - TSO/CSO only applicable to Module and Non-Life Limited Parts.

\*\*\* - Life Calculation on Revised Life-Limit \*\* - Life Calculation on Soft Life Limit \* - Life Calculation on Hard Life Limit

SINGAPORE AIRLINES LIMITED



## Available hours/cycles for APU life limited parts at removal

APU Description : AUXILIARY POWER UNIT

Part Number : 3800550-1

Serial number : P2273

IIN : Z0000

Ex Aircraft Reg : SWU

Position : APU

Date Removed : 16-Sep-2017

TSN / CSN(at removal) : 7184 / 4819

TSLV / CSLV : 7184 / 4819

Remarks : OVERHAUL

Item No	ATA Chapter	Position	IIN	Part Number	Part Description	Serial Number	TSO# LL(HR)	CSO# LL(CYC)	TSN	CSN	Available Hours	Cycles
1	49-00-00	APU	Z0000	3800550-1	AUXILIARY POWER UNIT	P2273	7184	4819	7184	4819	NA	NA
2	49-23-00		Z3311	3822611-1	IMPELLER COMPRESSOR 1ST STAGE	13-182449-08502		27000 *	7184	4819		22181
3	49-23-00		Z3312	3822341-5	IMPELLER, COMPRESSOR 2ND STG	13-182449-08511		27000 *	7184	4819		22181
4	49-23-00		Z3313	3822612-1	IMPELLER COMPRESSOR LOAD	13-182449-08188		27000 *	7184	4819		22181
5	49-25-00		Z3511	3842151-3	ROTOR ASSEMBLY, 1ST STAGE	12-168522-01537		27000 *	7184	4819		22181
6	49-25-00		Z3512	3842155-4	ROTOR ASSEMBLY, 2ND STAGE	12-168522-01912		27000 *	7184	4819		22181
7	49-25-00		Z3513	3842160-6	ROTOR ASSEMBLY, 3RD STAGE	12-156101-09303		27000 *	7184	4819		22181

\*\*\* End Of Report \*\*\*



Note : #-TSO/CSO only applicable to Module and Non-Life Limited Parts.

\*\*\* - Life Calculation on Revised Life Limit \*\* - Life Calculation on Soft Life Limit \* - Life Calculation on Hard Life Limit



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

NOTIFICATION NUMBER : 330005518		SERVICE ORDER : 5011527375			
APU MODEL : GTCP331-500[B]		PART NUMBER : 3800550-1		SERIAL NUMBER : P-2273	
OPERATION TEXT : LAB TEST				MANUAL : EM 49-26-57	
OPERATION NO : 0220				REVISION : 20	
QUANTITY		UNITS	NO LOAD	103°F ECS MODE	103°F MES MODE
BAROMETRIC PRESSURE		PSIA	14.59	14.59	14.59
FUEL INLET PRESSURE		PSIG	25.5	20.8	20.3
OIL PUMP DISCHARGE PRESSURE		PSIG	64.6	63.5	63.4
OIL PUMP DISCHARGE TEMPERATURE		°F	160	163	162
GEARBOX PRESSURE		PSIA	14.96	14.89	14.86
COMPRESSOR INLET TEMPERATURE	MEASURED	°F	96.5	99.2	98.5
APU INLET TEMPERATURE (T2) (ARINC)		°F	101.5	103.7	101.8
TURBINE DISCHARGE TEMPERATURE (UNIT RAKES)	UPPER (EGT 1)	°F	717.4	1063.9	1087.6
	LOWER (EGT 2)	°F	725.3	1076.7	1112.1
EXHAUST GAS TOTAL TEMPERATURE (LA)	MEASURED	°F	739.3	1075.6	1103.4
	CORRECTED	°F		1100.6	1097.3
ORIFICE INLET AIR PRESSURE		" Hg		75.6	86.5
ORIFICE INLET TEMPERATURE		°F		410.5	420.1
ORIFICE DELTA PRESSURE		" H <sub>2</sub> O		59.92	24.48
IGV POSITION** (IGVPOS)		DEGREES		12.5	5.0
IGV PERFORMANCE ADJ (IGVPERADJ)		DEGREES		5.0	
BLEED AIRFLOW	ACTUAL	LBS/MIN		474.86	320.04
	CORRECTED	LBS/MIN		470.8	299.2
RESTRICTED AIRFLOW (DISC. CORR. FLOW)		LBS/MIN		166.88	106.02
BLEED AIR TOTAL PRESSURE	INDICATED	PSIA		54.5	58.2
	CORRECTED	PSIA		54.2	54.3
BLEED AIR TOTAL TEMPERATURE	INDICATED	°F		420.7	430.9
	CORRECTED	°F		424.6	427.7
UNIT VIBRATION	ACCESSORY	IN/SEC	0.23	0.14	0.15
	TURBINE	IN/SEC	0.34	0.36	0.39
TURBINE WHEEL SPEED		RPM	39041	39041	39038
SHAFT LOAD	APPLIED	SHP		179.3	179.4
	CORRECTED	SHP		180.7	180.7
FUEL CONSUMPTION	INDICATED	LBS/HR	336.8	626	653
	CORRECTED	LBS/HR		628.00	627.24

TEST TECHNICIAN :

DATE :

HONEYWELL (S)  
TEST 09

Stamp &amp; Sign

16-Oct-2017

QUALITY CONTROL :

DATE :

Stamp &amp; Sign

17 OCT 2017



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

PART NO: 3800550-1

SERIAL NO: P-2273

CUSTOMER: SINGAPORE AIRLINES LTD

MODEL: GTCP331-500B

SERIES: 62

DATE: 17-Oct-17

S/O NO: 5011527375

TSN: 7184:03

CSN: 4819

TSR: NA

CSR: NA

NOTIFICATION NO: 330005518

TSO: 0:00

CSO: 0

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

APU ACCESSORIES RECORD/NDC

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

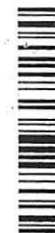
REMARKS: APU HOURS AND CYCLES ARE BASED AT THE POINT OF ASSEMBLY AND OBTAINED FROM THE DMM.

INSPECTOR SIGNATURE & STAMP:





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

1. Approving Competent Authority/Country  EASA		<b>AUTHORISED RELEASE CERTIFICATE</b>  <b>EASA FORM 1</b>			3. Form Tracking Number 20170003753547Y02 330066785																
4. Organisation Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619				5. Work Order/Contract/Invoice 10453748 330006248 Page 1 of 1																	
6. Item	7. Description	8. Part No	9. Qty	10. Serial No.	11. Status/Work																
001	ROTOR ASSY TURB - 2STG	3842155-4	1	12-168522-01912	OVERHAULED																
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 style="width: 100%; border: none;"> <tr> <td style="width: 10%;"></td> <td style="width: 10%;">HH.DD</td> <td style="width: 10%;">(HH:MM)</td> </tr> <tr> <td>TSN</td> <td>7184.05</td> <td>(7184:03)</td> </tr> <tr> <td>CSN</td> <td>4819.00</td> <td></td> </tr> <tr> <td>TSO</td> <td>0.00</td> <td>(0:00)</td> </tr> <tr> <td>CSO</td> <td>0.00</td> <td></td> </tr> </table>								HH.DD	(HH:MM)	TSN	7184.05	(7184:03)	CSN	4819.00		TSO	0.00	(0:00)	CSO	0.00	
	HH.DD	(HH:MM)																			
TSN	7184.05	(7184:03)																			
CSN	4819.00																				
TSO	0.00	(0:00)																			
CSO	0.00																				
13a. Certifies that the items identified above were manufactured in conformity to: <input type="checkbox"/> approved design data and are in condition for safe operation <input type="checkbox"/> non-approved design data specified in block 12			14a <input checked="" type="checkbox"/> Part-145.A.50 Release to Service <input type="checkbox"/> Other regulation specified in block 12 Certifies that unless otherwise specified in block 12, the work identified in block 11 and described in block 12, was accomplished in accordance with Part-145 and in respect to that work the items are considered ready for release to service.																		
13b. Authorised Signature		13c. Approval/Authorisation Number		14b. Authorised Signature 		14c. Certificate/Approval Ref. No EASA.145.0C76															
13d. Name		13e. Date (dd mmm yyyy)		14d. Name Ramadoss Ramesh		14e. Date (dd mmm yyyy) 10 OCT 2017															
<b>USER/INSTALLER RESPONSIBILITIES</b> This certificate does not automatically constitute authority to install the item(s).  Where the user/installer performs work in accordance with regulation of an airworthiness authority different than the airworthiness authority specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts items from the airworthiness authority specified in block 1.  Statements in blocks 13a and 14a do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.																					





1. Approving Civil Aviation Authority/Country: <b>FAA/United States</b>		2. <b>AUTHORIZED RELEASE CERTIFICATE</b> <b>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b>			3. Form Tracking Number: 20170003753549Y03 330066785															
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul Circle Singapore 629619				Repair Station FT4Y192M																
5. Work Order/Contract/Invoice Number: 10453748 330006248 Page 1 of 1																				
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	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  <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							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 type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.			14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 12 Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.																	
13b. Authorized Signature:		13c. Approval/Authorization No.:		14b. Authorized Signature:																
				 																
13d. Name (Typed or Printed):		13e. Date(dd/mmm/yyyy):		14c. Approval/Certificate No.:																
				FT4Y192M																
14d. Name (Typed or Printed):		14e. Date (dd/mmm/yyyy):																		
Ramadoss Ramesh		10/OCT/2017																		
<b>User / Installer Responsibilities</b> It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1. Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.																				



1. Country <b>SINGAPORE</b>		2. <b>CIVIL AVIATION AUTHORITY OF SINGAPORE AUTHORIZED RELEASE CERTIFICATE CAAS(AW)95</b>				3. Form Tracking Number: 20170003753551Y06 330066785																
4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd (Gul Circle) 161 Gul 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	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  <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									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																					
14. NEW PARTS Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in condition for safe operation <input type="checkbox"/> Non-approved design data specified in Block 13				19. USED PARTS <input checked="" type="checkbox"/> SAR 145.50 Release to Service <input type="checkbox"/> Other regulation specified in Block 13. Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with SAR 145 and the Air Navigation Order and in respect to that work the items are considered ready for release to service.																		
15. Authorized Signature:		16. CAAS Approval No.:		20. Authorized Signature: <i>Ramados Ramesh</i>		21. CAAS Approval No.: AWI/38																
17. Name (Typed or Printed):		18. Date (dd mmm yyyy):		22. Name (Typed or Printed): Ramados Ramesh		23. Date (dd mmm yyyy): 10 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.																						

## APU shop visit on log report

**Part Number** : 3800550-1  
**IIN** : Z0000  
**TSN / CSN** : 7184 / 4819  
**Aircraft Regn** : -  
**Date fitted** : 17-Oct-2017  
**Date Removed** :  
**Serial Number** : P2273  
**Position** :  
**TSLV / CSLV** : - / -  
**Owner** : SIA  
**Visit Number** : 20171101001  
**Visit Reason** : OVERHAULED BY HONEYWELL W/O 5011527375  
**Description** : AUXILIARY POWER UNIT  
**TSO / CSO** : 0 / 0  
**Job Number** : HW-5011527375

Item No	IIN	ATA Chapter	Part Description	Position	Part No	Serial No	TSN / CSN	TSO / CSO	(SL) Available (HL) Hrs / Cyc	Hrs / Cyc	Remarks
1	Z3311	49-23-00	IMPELLER COMPRESSOR 1ST STAGE		3822611-1	13-182449-08502	7184 / 4819	0 / 0		/	22181
2	Z3312	49-23-00	IMPELLER, COMPRESSOR 2ND STG		3822341-5	1618244923700	0 / 0	0 / 0		/	27000
3	Z3313	49-23-00	IMPELLER COMPRESSOR LOAD		3822612-1	13-182449-08188	7184 / 4819	0 / 0		/	22181
4	Z3511	49-25-00	ROTOR ASSEMBLY, 1ST STAGE		3842151-3	12-168522-01537	7184 / 4819	0 / 0		/	22181
5	Z3512	49-25-00	ROTOR ASSEMBLY, 2ND STAGE		3842155-4	12-168522-01912	7184 / 4819	0 / 0		/	22181
6	Z3513	49-25-00	ROTOR ASSEMBLY, 3RD STAGE		3842160-6	12-156101-09303	7184 / 4819	0 / 0		/	22181

(\*) - Revised Life Limit

\*\*\* End Of Report \*\*\*





## Available hours/cycles for APU life limited parts

APU Description : AUXILIARY POWER UNIT

Part Number : 3800550-1

Serial number : P2273

IIN : Z0000

Aircraft Reg : SNB

Position : APU

Date Installed : 15-Nov-2017

TSN / CSN : 10878 / 7124

TSLV / CSLV : 3694 / 2305

Remarks : AT REMOVAL DATED 23NOV2019

Item No	ATA Chapter	Position	IIN	Part Number	Part Description	Serial Number	TSO# LL(HR)	CSO# LL(CYC)	TSN	CSN	Available Hours	Cycles
1	49-00-00	APU	Z0000	3800550-1	AUXILIARY POWER UNIT	P2273	3694	2305	10878	7124	NA	NA
2	49-23-00		Z3311	3822611-1	IMPELLER COMPRESSOR 1ST STAGE	13-182449-08502		27000 *	10878	7124		19876
3	49-23-00		Z3312	3822341-5	IMPELLER, COMPRESSOR 2ND STG	1618244923700		27000 *	3694	2305		24695
4	49-23-00		Z3313	3822612-1	IMPELLER COMPRESSOR LOAD	13-182449-08188		27000 *	10878	7124		19876
5	49-25-00		Z3511	3842151-3	ROTOR ASSEMBLY, 1ST STAGE	12-168522-01537		27000 *	10878	7124		19876
6	49-25-00		Z3512	3842155-4	ROTOR ASSEMBLY, 2ND STAGE	12-168522-01912		27000 *	10878	7124		19876
7	49-25-00		Z3513	3842160-6	ROTOR ASSEMBLY, 3RD STAGE	12-156101-09303		27000 *	10878	7124		19876

\*\*\* End Of Report \*\*\*



Note : #-TSO/CSO only applicable to Module and Non-Life Limited Parts.

\*\*\* - Life Calculation on Revised Life Limit \*\* - Life Calculation on Soft Life Limit \* - Life Calculation on Hard Life Limit