

|   |                            |   |  |                |  |                         |  |
|---|----------------------------|---|--|----------------|--|-------------------------|--|
| 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>201700037822 i 02<br>330005518                  |                         |  |
| 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 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><br>THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:<br>SPM 20-00-02/70-00-01 Rev 20, FEB/24/2016<br>IRM 49-24-79 Rev 9, APR/29/2016<br>IPC 49-26-55 Rev 18, DEC/06/2016<br>EM 49-26-57 Rev 20, SEP/27/2016<br>CMM 49-42-05 Rev 2, NOV/11/2014<br><br>NO AIRWORTHINESS DIRECTIVES APPLICABLE TO THIS APU.<br>REFER TO FORM GTCP331-500-G16-R.7 ATTACHED FOR LIFE LIMITED PARTS.<br>REFER TO SERVICE BULLETIN COMPLIANCE ATTACHED FOR ALL SERVICE BULLETINS COMPLIANCE.<br>TEXT CONTINUED ON RIGHT SIDE   |                            |   |  |                |  |                         |  |
| CONTINUED:<br>TSN: 7184:03 CSN: 4819 IS AT POINT OF APU ASSEMBLY AND DERIVED FROM DMM.<br>DMM HRS/CYCLES ON RELEASE IS 7186:02 / 4825 (1:59 HRS AND 6 CYCLES USED IN APU FINAL TESTING).<br>APU PRESERVATION AND STORAGE FOR A PERIOD OF UP TO 24 MONTHS AS PER SB 49-7997 REV 5, REV DATE FEB/ 3/2017.<br>SHIP LESS: STARTER MOTOR PROTECTOR P/N: 2709968-1, GENERATOR BLANK COVER P/N: 3862212-3.<br><br><div style="text-align: right;">See continuation page</div>  |                            |   |  |                |  |                         |  |
| Items 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 621 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  |                | 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><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. |                            |   |  |                |  |                         |  |

**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:<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>20170003782292Y03-T<br>330005518                   |                    |
| 4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd<br>(Gui Circle)<br>161 Gui Circle<br>Singapore 629619  |                                  | Repair Station<br>Ff4Y192M  |  | 5. Work Order/Contract/Invoice Number:<br>10453748<br>330006248<br>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:<br>THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:<br>SPM 20-00-02/70-00-01 Rev 20, FEB/24/2016<br>IRM 49-24-79 Rev 9, APR/29/2016<br>IPC 49-26-55 Rev 18, DEC/06/2016<br>EM 49-26-57 Rev 20, SEP/27/2016<br>CMM 49-42-05 Rev 2, NOV/11/2014<br><br>NO AIRWORTHINESS DIRECTIVES APPLICABLE TO THIS APU.<br>REFER TO FORM GTCF331-500-G16-R.7 ATTACHED FOR LIFE LIMITED PARTS.<br>REFER TO SERVICE BULLETIN COMPLIANCE ATTACHED FOR ALL SERVICE BULLETINS COMPLIANCE.<br><b>TEXT CONTINUED ON RIGHT SIDE</b><br><br>SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED  |                                  |   | <b>CONTINUED :</b><br>TSN: 7184:03 CSN: 4819 IS AT POINT OF APU ASSEMBLY AND DERIVED FROM DMM.<br>DMM HRS/CYCLES ON RELEASE IS 7186:02 / 4825 (1:59 HRS AND 6 CYCLES USED IN APU FINAL TESTING).<br>APO PRESERVATION AND STORAGE FOR A PERIOD OF UP TO 24 MONTHS AS PER SB 49-7997 REVS, REV DATE FEB/ 3/2017.<br>SHIP LESS: STARTER MOTOR PROTECTOR P/N: 2709968-1, GENERATOR BLANK coK R P/N: 3862212-3.<br><br><div style="text-align: right;"><b>See Continuation page</b></div> |  |                    |
| 13a. Certifies that 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-approved design data specified in Block 12.   |                                  | 14a. <b>!&amp;I</b> 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><br>H _____<br>1e   |  | 14c. Approval/Certificate No.:<br><br><b>FT4Y192M</b>                          |                    |
| 13d. Name (Typed or Printed):  | 13e. Date(dd/mm/yyyy):           | 14d. Name (Typed or Printed):<br><br><b>Ta Chat Pang</b>  |  | 14e. Date (dd/mm/yyyy):<br><br><b>17/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. |                                  |   |  |  |                    |

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<br><br><b>SINGAPORE</b>   |                            | 2. <b>CIVIL AVIATION AUTHORITY OF SINGAPORE<br/>AUTHORIZED RELEASE CERTIFICATE<br/>CAAS(AW)95</b> |                  |  |                            | 3. Form Tracking Number: P:1<br>20170003782293Y06<br>330005518                 |  |
| 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 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:<br>THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:<br>SPM 20-00-02/70-00-01 Rev 20, FEB/24/2016<br>IRM 49-24-79 Rev 9, APR/29/2016<br>IPC 49-26-55 Rev 18, DEC/06/2016<br>EM 49-26-57 Rev 20, SEP/27/2016<br>CMM 49-42-05 Rev 2, NOV/11/2014<br><br>NO AIRWORTHINESS DIRECTIVES APPLICABLE TO THIS APU.<br>REFER TO FORM GTCP331-500-G16-R.7 ATTACHED FOR LIFE LIMITED PARTS.<br>REFER TO SERVICE BULLETIN COMPLIANCE ATTACHED FOR ALL SERVICE BULLETINS COMPLIANCE.<br><b>TEXT CONTINUED ON RIGHT SIDE</b><br><br>SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED  |                            |   |                  |  |                            |  |  |
| <div style="display: flex; justify-content: space-between;"> <div> <b>W PARTS</b><br/> Certifies items identified above were manufactured in conformity to:<br/> <input type="checkbox"/> <b>D</b> Appr design data and are in condition for safe operation<br/> <input type="checkbox"/> Non-approved data specified in Block 13 </div> <div> <b>19. USED PARTS</b><br/> SAR-145.50 Release to Service <b>D</b> Other regulation specified in Block 13.<br/> Certifies that 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.:   |  |
|  |                            |   |                  | <br>-S-75 |                            | <b>AWI/38</b>  |  |
| 17. Name (Typed or 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><br>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. |                            |   |                  |  |                            |  |  |

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

**NOTIFICATION NO:** 330005518

**TSO:** 0:00

**CSO:** 0

| DESCRIPTION      | PART NO   | SERIAL NO       | LOT NO | TSN     | CSN  | LIFE LIMITS<br>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/NO**

| 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

ENGINE SERIAL NUMBER: P-2273

CUSTOMER: SINGAPORE AIRLINES LTD

REPAIR ORDER: 000330006248

"MODL1LE: ENGINE

..PART: 3800550-1

## SERVICE RECORD

PAGE: 1 of 1

SERVIC E \_BUL\_IETJN COM\_PLI NCE

| "\$SERVICE<br>BULLETIN | REV | DESCRIPTION                                | ACCOMP         | WHEN<br>ACCOMP | Recurring |
|------------------------|-----|--|----------------|----------------|-----------|
| .. 331-49-7870         | 0   | AIRBORNE AUXILIARY POWER - GAS<br>TURBINEE | Complied VVith | 16/OCT/2017    |           |
| 331-49-8137            | 0   | AIRBORNE AUXILIARY POWER - GAS<br>TURBINEE | Complied VVith | 16/OCT/2017    |           |
| 331-49-8138            | 0   | AIRBORNE AUXILIARY POWER - GAS<br>TURBINEE | Complied VVith | 16/OCT/2017    |           |
| 331-49-8141            | 0   | AIRBORNE AUXILIARY POWER - GAS<br>TURBINEE | Complied VVith | 16/OCT/2017    |           |
| 331-49-8170            | 0   | AIRBORNE AUXILIARY POWER - GAS<br>TURBINEE | Complied VVith | 16/OCT/2017    |           |
| 331-49-8179            | 1   | AIRBORNE AUXILIARY POWER - GAS<br>TURBINEE | Complied VVith | 16/OCT/2017    |           |
| 331-49-8180            | 1   | AIRBORNE AUXILIARY POWER - GAS<br>TURBINEE | Complied VVith | 16/OCT/2017    |           |
| 331-49-8187            | 0   | AIRBORNE AUXILIARY POWER - GAS<br>TURBINEE | Complied VVith | 16 OCT 2017    |           |
| 49-7997                | 5   | AIRBORNE AUXILIARY POWER - GAS<br>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-<br>LATED<br>ENGINE<br>HOURS<br>HH.DD<br>(HH:MM) | ACCUMU-<br>LATED<br>ENGINE<br>CYCLES | ENGINE SERVICE RECORD<br>REMARKS, INSPECTIONS, REPAIRS, AND ADJUSTMENTS   |  | PAGE : 1 of 1 |         |     |       |                   |    |             |          |   |             |          |    |             |          |    |             |          |   |             |
| 1.(S/OCT/2017     | TSN TSO<br>7184.05 0.00<br>(7184:03) (0:00)             | CSN CSO<br>4819 0                    | P/N 3800550-1 S/N P-2273<br>Model 331-5008 Series 62<br>Customer PO 10453748  |  |               |         |     |       |                   |    |             |          |   |             |          |    |             |          |    |             |          |   |             |
|                   |   |                                      | DESCRIPTION OF WORK PERFORMED<br>DISASSEMBLED ENGINE TO ACCOMPLISH INSPECTIONS AS INDICATED/ TO<br>ACCOMPLISH REPAIR FOR REPORTED REASON: OVERHAUL (MSA)..<br>RE-ASSEMBLED ENGINE AND TESTED AS SPECIFIED. ALL WORK PERFORMED<br>IN ACCORDANCE WITH MANUFACTURER'S MAINTENANCE MANUALS.<br><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:<br>AS ABOVE  |  |               |         |     |       |                   |    |             |          |   |             |          |    |             |          |    |             |          |   |             |
|                   |   |                                      | SERVICE BULLETINS COMPLIED WITH: SEE SERVICE BULLETIN LIS"  |  |               |         |     |       |                   |    |             |          |   |             |          |    |             |          |    |             |          |   |             |
|                   |   |                                      | PARTS REPAIRED OR REPLACED THIS VISIT: SEE TRACE INPUT<br>PAGE  |  |               |         |     |       |                   |    |             |          |   |             |          |    |             |          |    |             |          |   |             |
|                   |   |                                      | NOC / LIFE LIMITED PARTS: SEE NOC/ LIFE LIMITED PARTS RECORD<br>FOR SERIALIZED COMPONENTS INSTALLED   |  |               |         |     |       |                   |    |             |          |   |             |          |    |             |          |    |             |          |   |             |
|                   |   |                                      | THIS ENGINE HAS BEEN REPAIRED/INSPECTED IN ACCORDANCE WITH THE<br>APPLICABLE NATIONAL AVIATION ADMINISTRATION REGULATION AND IS APPROVED<br>FOR RETURN TO SERVICE WITH RESPECT TO THE WORK PERFORMED. PERTINENT<br>DETAILS ARE ON FILE AT THIS AGENCY UNDER REPAIR ORDER NUMBER<br>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.**



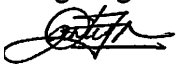
**IA/CREON:**  
**APU SIN:** - :i. 73  
**STATION:**  
**DATE:** 17 OCT 2017

**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<br/> 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<br/> AI:RCRAFr SBR:IES ON MB!CH Tim Al?U IS FITTED TO,<br/> <b>SO*</b> - 1 AIRFR»IB (mt)R a .ISG APiJ B0111tS<br/> SR" • 1. J.\IR:r'R»!B KOOR a 0,80 Al?U BOURS<br/> SV* - 1 AIRF.R.»IB ROUR - 0.52 A U ROURS<br/> J.w* • J .IU'RFRAMJI HOOR .., 0. 3;t, Al"O H0tr:U;<br/> SY* - 1. AIRF H :four • 0.75 Al?U HOv S</p> <p>TlCRH.!!lATING AC'11ON:<br/> 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" !<br/> ALL 8777 HONEYW11t.L GTC1?331-500 APO.</p> <p>DJ:SC:OSS!ON:<br/> <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<br><br>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.<br><br>(TO COMPLETE ATTACHMENT #1)  | Final<br>Assembly | 14 OCT 2017 |  |
| <div>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> <div><div>Page Sign/Stamp Off</div><div></div><div>Date Completed<br/>17 OCT 2017</div></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        |
| 12  | _s. \ 4 \       | ' l-ttL. t.k-c Eb | ^        |
| 13  | t 1 l{ir-l.--\  | tk 1' .o.ilr<a ?  | t-1      |
| 14  | B1.\tk"" ,....f | A k ka!( 9?       |          |




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.<br>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:-<br>a) Load Compressor<br>b) First stage Compressor<br>c) Second stage Compressor<br>d) Combustion Chamber<br>e) First Stage Stator Vane Assembly.<br>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.<br><b>NOTE: DO NOT APPLY FORCE TO THE BELLMOUTH CLAMP BY ANY METHOD OTHER THAN HAND PRESSURE.</b><br>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                   |

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|  |  |                |             |   |
|--|--|----------------|-------------|---|
| <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:-<br>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 |  |

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| 9 - APU COMPONENTS-cont'd... |  |  |   |
|------------------------------|--|--|---|
| 5                            | c) Magnetic Chip Collectors:-<br>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<br>--- (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<br>Or   | Accessories  | 12/10/2017    |
|                              | ii) Final test stamp (rectangular in shape, displaying "FT" and number "363"<br>Or   | Final Assembly   | 14 OCT 2017   |
|                              | iii) Component maintenance manual Test Stamp (circular in shape, displaying R&O FT and a date).<br><br>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<br><br>EASA   |                           | 2.<br><br><b>AUTHORISED RELEASE CERTIFICATE</b><br><b>EASA FORM 1</b> |   |                 | 3. Form Tracking Number<br>20170003746661Y02<br>330054959                  |  |
| 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  | IMPELLER, LOAD COMPRESSOR | 3822612-1   | 1   | 13-182449-08188 | OVERHAULED   |  |
| 12. Remarks<br>THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:<br>IRM 49-24-79 Rev 9, APR/29/2016<br><br>TSN            HH.DD            ,(HH:MM)<br>7184.05        ('7184:03)<br>CSN            4819.00<br>TSO            0.00            (0:00)<br>CSO            0.00   |                           |   |   |                 |  |  |
| 13a. Certifies that the items identified above were manufactured in conformity to:<br><br>design data and are in condition for safe operation<br>non-approved            data specified in block 12  |                           |   | 14a. Part-145.A.50 Release to Service D Other regulation specified in block 12<br><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   |                 | 14c. Certificate/Approval R f. No<br><br>EASA.145. 0076                    |  |
| 13c. Date (dd mmm yyyy) 13 OCT 2017  |                           |   | 14d. Name<br><br>Chou Nyee Hoong  |                 | 14e. Date (dd mmm yyyy)<br><br>13 OCT 2017                                 |  |
| USER/INSTALLER RESPONSIBILITY<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>20170003746660Y03-330054959 |  |
| 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   | IMPELLER, LOAFCOMPRESSOR | 3822612-1  | 1            | 13-182449-08188            | OVERHAULED  |  |
| 12. Remarks:<br>THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:<br>IRM 49-24-79 Rev 9, PR/29/2016<br><br>TSN            HH.DD            (HH:MM)<br>7184.05       (7184:03)<br>CSN           4819.00<br>TSO            0.00            (0:00)<br>CSO            0.00<br><br>SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED<br><br><div><div><div>Unless the items identified above were manufactured in conformity to:<br/>D        ved design: Part and are in a condition for safe operation.<br/>D        Non-approved. Sign data specified in Block 12.</div><div><div>14a.        14 CFR 43.9 Return 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 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>14b. Authorized Signature: </div><div>14c. Approval/Certificate No.:<br/><b>FT4Y192M</b></div><div><div>14d. Name (Typed or Printed):<br/><b>Chou Nyee Hoong</b></div><div>14e. Date (dd/mmm/yyyy):<br/><b>09/OCT/2017</b></div></div></div></div></div></div> |                          |  |              |                            |   |  |
| 13b. Authorized Signature:  |                          | 13c. Approval/Authorization No.:   |              |                            |   |  |
| 13d. Name (Typed or Printed):   |                          | 13e. Date(dd/mmm/yyyy):  |              |                            |   |  |

**User / Installer Responsibilities**

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1. Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

|  |                           |   |   |  |   |  |  |    |    |         |     |      |    |           |     |      |    |  |     |   |    |        |     |   |    |  |
|--|---------------------------|---|---|--|---|--|--|----|----|---------|-----|------|----|-----------|-----|------|----|--|-----|---|----|--------|-----|---|----|--|
| 1. Country<br><b>SINGAPORE</b>   |                           | 2. <b>CIVIL AVIATION AUTHORITY OF SINGAPORE</b><br><b>AUTHORIZED RELEASE CERTIFICATE</b><br><b>CAAS(AW)qs</b> |   |  | 3. Form Tracking Number<br>-2011000314ass1voa<br><u>330054959</u> |  |  |    |    |         |     |      |    |           |     |      |    |  |     |   |    |        |     |   |    |  |
| 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  | IMPELLER, LOAD COMPRESSOR | 3822612-1   | N/A   |  | 13-182449-08188   | OVERHAULED   |  |    |    |         |     |      |    |           |     |      |    |  |     |   |    |        |     |   |    |  |
| 13. Remarks<br>THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:<br>IRM 49-24-79 Rev 9, APR/29/2016<br><br><table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;"></td> <td style="width: 10%;">HH</td> <td style="width: 10%;">DD</td> <td style="width: 10%;">(HH:MM)</td> </tr> <tr> <td>TSN</td> <td>7184</td> <td>05</td> <td>(7184:03)</td> </tr> <tr> <td>CSN</td> <td>4819</td> <td>00</td> <td></td> </tr> <tr> <td>TSO</td> <td>0</td> <td>00</td> <td>(0:00)</td> </tr> <tr> <td>CSO</td> <td>0</td> <td>00</td> <td></td> </tr> </table><br><br>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. <b>WPARTS</b><br>Certifies that the items identified above were manufactured in conformity to:<br><br>Design data and are in condition for safe operation<br>No. <u>Approved design data specified in Block 13</u>   |                           |   | 19. <b>USED PARTS</b><br>SAR-145.50 Release to Service. Other regulation specified in Block 13.<br>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:<br>                          |   | 21. CAAS Approval No.:<br><b>AWI/38</b>  |  |    |    |         |     |      |    |           |     |      |    |  |     |   |    |        |     |   |    |  |
| 17. Name (Typed or Printed):   |                           | 18. Date (dd mmm yyyy):   |   | 22. Name (Typed or Printed):<br><b>Chou Nyee Hoong</b> |   | 23. Date (dd mmm yyyy):<br><b>09 OCT 2017</b>                                  |  |    |    |         |     |      |    |           |     |      |    |  |     |   |    |        |     |   |    |  |
| <b>User / Installer Responsibilities</b><br>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/component (if/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. |                           |   |   |  |   |  |  |    |    |         |     |      |    |           |     |      |    |  |     |   |    |        |     |   |    |  |



**Honeywell**



Repair Station #

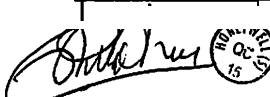
SINGAPORE 629619

Date:09 OCT 2017

|   |  |  |  |
|---|--|--|--|
| <b>Repair Order:</b> 2017-005011544482-001<br>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<br>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>                          |  |

## Page: 2 of 2

|   |                                  |   |        |   |  |  |
|---|----------------------------------|---|--------|---|--|--|
| 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>20110003746072Y02<br>330055685                  |  |
| 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><br>10453748<br>330006248<br>Page 1 of 1 |  |
| 6. Item   | 7. Description                   | 8. Part No  | 9. Qty | 10. Serial No.  | 11. Status/Work  |  |
| 001   | IMPELLER, COMPRESSOR FIRST STAGE | 3822611-1   | 1      | 13-182449-08502   | OVERHAULED   |  |
| 12. Remarks<br>THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:<br>IRM 49-24-79 Rev 9, 15 JAN 2016<br><br><div style="display: flex; justify-content: space-between;"> <div> TSN        HH.DD        (HH:MM)<br/> CSN        7184.05     ( 184:03)<br/> TSO        4819.00<br/> CSO        0.00        (0:00)<br/> CSO        0.00 </div> <div></div> </div>   |                                  |   |        |   |  |  |
| 13a. Certifies that 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 data specified in block 12   |                                  | 14a. 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   |                                  | 13c. Approval/Authorisation Number  |        | 14b. Authorised Signature<br><br> |  | 14c. (Certificate/Approval Ref. No)<br><br>EASA.145.0076 |
| 13d. Name   |                                  | 13e. Date (dd mmm yyyy)   |        | 14d. Name<br>Chou Nyee Hoong  |  | 14e. Date (dd mmm yyyy)<br>09 OCT 2017                   |
| <b>USER/INSTALLER RESPONSIBILITY</b><br>This certificate does not automatically confer 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>20170003746076YQ3,<br>330055685                    |                                |  |    |    |         |     |      |    |           |     |      |    |  |     |    |    |        |     |    |    |  |
|---|---------------------------------|--|--|---|--|--------------------------------|--|----|----|---------|-----|------|----|-----------|-----|------|----|--|-----|----|----|--------|-----|----|----|--|
| 4. Organization Name and Address:<br>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   | IMPELLER, COMRESSOR FIRST STAGE | 3822611-1  | 1  | 13-182449-08502   | OVERHAULED   |                                |  |    |    |         |     |      |    |           |     |      |    |  |     |    |    |        |     |    |    |  |
| 12. Remarks:<br>THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:<br>IRM 49-24-79 Rev 9, APR/29/2016<br><br><table border="1"> <thead> <tr> <th></th> <th>HH</th> <th>DD</th> <th>(HH:MM)</th> </tr> </thead> <tbody> <tr> <td>TSN</td> <td>7184</td> <td>05</td> <td>(7184:03)</td> </tr> <tr> <td>CSN</td> <td>4819</td> <td>00</td> <td></td> </tr> <tr> <td>TSO</td> <td>00</td> <td>00</td> <td>(0:00)</td> </tr> <tr> <td>CSO</td> <td>00</td> <td>00</td> <td></td> </tr> </tbody> </table><br>SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED |                                 |  |  |   |  |                                |  | HH | DD | (HH:MM) | TSN | 7184 | 05 | (7184:03) | CSN | 4819 | 00 |  | TSO | 00 | 00 | (0:00) | CSO | 00 | 00 |  |
|   | HH                              | DD   | (HH:MM)  |   |  |                                |  |    |    |         |     |      |    |           |     |      |    |  |     |    |    |        |     |    |    |  |
| TSN   | 7184                            | 05   | (7184:03)  |   |  |                                |  |    |    |         |     |      |    |           |     |      |    |  |     |    |    |        |     |    |    |  |
| CSN   | 4819                            | 00   |  |   |  |                                |  |    |    |         |     |      |    |           |     |      |    |  |     |    |    |        |     |    |    |  |
| TSO   | 00                              | 00   | (0:00)   |   |  |                                |  |    |    |         |     |      |    |           |     |      |    |  |     |    |    |        |     |    |    |  |
| CSO   | 00                              | 00   |  |   |  |                                |  |    |    |         |     |      |    |           |     |      |    |  |     |    |    |        |     |    |    |  |
| 13a. Certifies the items identified above were manufactured in conformity to:<br><input checked="" type="checkbox"/> Described design data and are in a condition for safe operation.<br><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<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:  |  | 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<br><b>SINGAPORE</b>  |                                  | 2. <b>CIVIL AVIATION AUTHORITY OF SINGAPORE<br/>AUTHORIZED RELEASE CERTIFICATE<br/>CAAS(AW)95</b>  |                  |   |                            | 3. Form Tracking Number:<br>20170003746071Y06<br>330055685 |  |
| 4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd<br>(Gui Circle)<br>161 Gui Circle<br>Singapore 629619   |                                  |  |                  |   |                            | Repair Station<br>AW1/38                                   |  |
| 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   | IMPELLER, COMPRESSOR FIRST STAGE | 3822611-1  | N/A              | 1   | 13-182449-08502            | OVERHAULED   |  |
| 13. Remarks:<br>THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:<br>IRM 49-24-79 Rev 9, APR/29/2016<br><br><div style="display: flex; justify-content: space-between;"> <div> TSN<br/>CSN<br/>TSO<br/>CSO </div> <div> HH:DD<br/>7184.05<br/>4819.00<br/>0.00<br/>0.00 </div> <div> (HH:MM)<br/>(7184:03)<br/><br/>(0:00) </div> </div><br>SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED |                                  |  |                  |   |                            |  |  |
| 15. Authorized Signature:   |                                  | 16. CAAS Approval No.:   |                  | 19. USED PARTS<br>SAR-145.50 Release to Service D Other regulation specified in Block 13.<br>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:                                  |  |
| 17. Name (Typed or Printed):  |                                  | 18. Date (dd mmm yyyy):  |                  | 21. CAAS Approval No.:<br><b>AW1/38</b>   |                            | 22. Name (Typed or Printed):<br><b>Chou Nyee Hoong</b>     |  |
| 23. Date (dd mmm yyyy):<br><b>09 OCT 2017</b>   |                                  | <div style="display: flex; justify-content: space-between;"> <div> 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. Whenever the user/installer works in accordance with the national regulations of an Aviation 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. </div> <div> <b>User / Installer Responsibilities</b> </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,flWte: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::\$'1iWjiN1m,11cllr"Rn:11

UNIT OVERHAULED IAW IRM.

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

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

Overhaul

s.iiG.iiivhilffi!::ttitim1m •

Evaluation Type

|  |  |   |  |  |   |   |
|--|--|---|--|--|---|---|
| 1. Approving Civil Aviation Authority/Country:<br><b>FAA/United States</b>   |  | 2.<br><b>AUTHORIZED RELEASE CERTIFICATE</b><br><br><b>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b> |  |  | 3. Form Tracking Number:<br>20170003733110Y14<br>9001544725-80005 |   |
| 4. Organization Name and Address: 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>Hamel Hempstead, HP2 7UB<br>UNITED KINGDOM |   | 5. Work Order/Contract/Invoice Number:<br><br>4705219014-000010<br>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  | I<br>Work: NEW  |   |
| 12. Remarks:<br>AIRWORTHINESS APPROVAL.<br>THIS IMPELLER, COMPRESSOR, SECOND STAGE IS A SUBCOMPONENT OF A TSO AUTHORIZATION.   |  |   |  |  |   |   |
| 13a. Certifies the items identified above were manufactured in conformity to:<br>181 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 checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input 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, 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.:<br><b>ODA-602216-NM</b> |   | 14b. Authorized Signature:   |  | 14c. Approval/Certificate No.:                                    |   |
| 13d. Name (Typed or Printed):<br><b>Aggrey Kanyanga</b>  | 13e. Date (dd/mmm/yyyy):<br><b>05/OCT/2017</b>           |   | 14d. Name (Typed or Printed):  |  | 14e. Date (dd/mmm/yyyy):  |   |

#### User/ Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1. Statements in Blocks 13a and 14a do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

## J

114 OCT 2017

PX-3107-76C

|  |                 |   |   |                        |  |                                   |  |       |         |     |         |           |     |         |  |     |      |        |     |      |  |
|--|-----------------|---|---|------------------------|--|-----------------------------------|--|-------|---------|-----|---------|-----------|-----|---------|--|-----|------|--------|-----|------|--|
| 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><br>201700037518 2Yb2<br>330067204                  |                                   |  |       |         |     |         |           |     |         |  |     |      |        |     |      |  |
| 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><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  | ROTOR ASSY 1STG | 3842151-3   | 1   | 12-168522-01537        | OVERHAULED   |                                   |  |       |         |     |         |           |     |         |  |     |      |        |     |      |  |
| 12. Remarks<br>THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:<br>IRM 49-24-79 Rev 9, APR/29/2016<br>EM 49-26-57 Rev 20, SEP/27/2016<br><br><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)   |   |                        |  |                                   |  |       |         |     |         |           |     |         |  |     |      |        |     |      |  |
| TSN  | 7184.05         | (7184:03)   |   |                        |  |                                   |  |       |         |     |         |           |     |         |  |     |      |        |     |      |  |
| 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:<br><input type="checkbox"/> <b>no</b> <b>signature</b> data and are in condition for safe operation<br>data specified in block 12  |                 |   | 14a <input checked="" type="checkbox"/> 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  |                 | 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><br><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. 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>20170003751891Y03.<br>330067204 |                                |  |       |         |     |         |           |     |         |  |     |      |        |     |      |  |
| 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  | ROTOR ASSY 1STG | 3842151-3  |  | 1                             | 12-168522-01537   | OVERHAULED                     |  |       |         |     |         |           |     |         |  |     |      |        |     |      |  |
| 12. Remarks:<br>THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:<br>'IRM 49-24-79 Rev 9, APR/29/2016<br>EM 49-26-57 Rev 20, SEP/27/2016<br><br><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><br>SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED<br><br><div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>...res 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-approved design data specified in Block 12.</p> </div> <div style="width: 50%;"> 14a. 14 CFR 43.9 Return to Service <b>D</b> Other regulation specified in Block 12<br/> Certifications 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> |                 |  |  |                               |   |                                |  | 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            |  |  |                               |   |                                |  |       |         |     |         |           |     |         |  |     |      |        |     |      |  |
| 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

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 before the aircraft may be flown.

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:

ocB

21. CAAS Approval No.:

**AWI/38**

22. Name (Typed or Printed):

Chou jNye 'Hoong

23. Date (dd mmm yyyy):

10 OCT 2017

**User/Installer Responsibilities**

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

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)

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(7184:03)

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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.:;ftfiitiwiiliiwl&t1 i Overhaul

iiitiili1iliifif.e.iii tifi&Jini

i!hltt t\$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

## Confiauration And Findinas 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 ,ru11IIIUW

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

I Imiiiiim llllHlllll ml I I HI, miiii llllllllllll

**Series/Issues/Amdts:**

**Mods:**

**MECHANIC/ANALYST** Chin Cheng See

**DATE: 03 OCT 2017**



|   |                        |  |  |                 |  |  |
|---|------------------------|--|--|-----------------|--|--|
| 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>20170003753547yo2<br>330066785                  |  |
| 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   | ROTOR ASSY TURB - 2STG | 3842155-4"   | 1  | 12-168522-01912 | OVERHAULED   |  |
| 12. Remarks<br>THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:<br>IRM 49-24-79 Rev 9, APR/29/2016<br>EM 49-26-57 Rev 20, SEP/27/2016<br><br>TSN            HH.DD            (HH:MM)<br>7184.05            (7184:03)<br>CSN           4819.00<br>TSO           0.00            (0:00)<br>CSO           0.00  |                        |  |  |                 |  |  |
| The items 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. Part-145.A.50 Release to Service <input checked="" 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 Part-145 and in 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                    |  |
| 13d. Name   |                        |  | 13e. Date(ddmmmyyyy)<br><br>Ramadhbss Ramesh   |                 | 14d. Name<br><br>14e. Date(ddmmmyyyy)<br>10 OCT 2017                       |  |
| USER/INSTALLER RESPONSIBILITIES<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 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:<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>20170003753549YQ3,<br>330066785 |  |       |         |     |         |           |     |         |  |     |      |        |     |      |  |
|--|------------------------|--|--|---------------------------------|---|--|-------|---------|-----|---------|-----------|-----|---------|--|-----|------|--------|-----|------|--|
| 4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd<br>(Gui Circle)<br>161 Gui Circle<br>Singapore 629619  |                        |  |  | Repair Station<br>FT4Y192M<br>1 |   |  |       |         |     |         |           |     |         |  |     |      |        |     |      |  |
| 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  | ROTOR ASSY TURB - 2STG | 3842155-4  | 1  | 12-168522-01912                 | OVERHAULED  |  |       |         |     |         |           |     |         |  |     |      |        |     |      |  |
| 12. Remarks:<br><b>THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:</b><br><b>IRM 49-24-79 Rev 9, APR/29/2016</b><br><b>EM 49-26-57 Rev 20, SEP/27/2016</b><br><br><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><br><br>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:<br><input checked="" type="checkbox"/> Designated design data and are in a condition for safe operation.<br><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<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:      |   |  |       |         |     |         |           |     |         |  |     |      |        |     |      |  |
|  |                        |  |  | 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.



Commercial

SINGAPORE 629619  
Date:10 OCT 2017

Honeywell

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

Initial Findinas Reoort

|                                     |                   |   |                 |
|-------------------------------------|-------------------|---|-----------------|
| 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 mttriltt:&::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

liik\$ mteif)iti6ifa.w-n11.w. w»:tuP@Of:i-1b/:fr

UNIT OVERHAULED IAW IRM.

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

INSPECTION

--:L-== :!fT?

c.uilditjtted!fntffililili6.v.ia\*s.gnM@

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

Overhaul

Commercial

Honeywell

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

SINGAPORE 629619  
Date:10 OCT 2017

| Configuration And Findings Evaluation  |  |  |
|--|--|--|
| <div><div><div>Repair Order: 2017-005011549141-001</div><div>330066785</div><div>Customer P/O: 10453748</div></div><div><div>Customer: 303815</div><div>SINGAPORE AIRLINES LTD</div></div></div> |  |  |
| <div><div>Orig Cust:</div><div><div>Part Number: 3842155-4</div><div>Part Desc: ROTOR ASSY TURB - 2STG</div><div>Serial No: 12-168522-01912</div></div></div>                                    |  |  |
| <div><div>Mods:</div><div>Series/Issue/ Amdts:</div><div><div>Quantity 1</div><div>Ship Date:</div><div>Received Date:</div></div></div>   |  |  |

FINAL CONFIGURATION

Part No: 3842155-4

||||||| m||||||| |m| |||||| m|||.

S/N: 12-168522-01912


|||||||m ||| m| m||||H||m |m| ||||||||| |||||

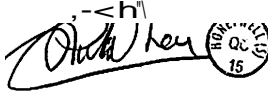
Series/Issues/Amdts:

Mods:

ECHANIC/ANAL YST Chin Cheng See

DATE: 03 OCT 2017

|  |                              |   |  |                 |  |  |
|--|------------------------------|---|--|-----------------|--|--|
| 1. Approving Competent Authority/Country<br><br>EASA   |                              | 2.<br><br><b>AUTHORISED :RELEASE CERTIFICATE</b><br><br>EASA FORM 1 |  |                 | 3. Form Tracking Number<br>20110003746522y02<br>330066784                  |  |
| 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  | TURBINE ROTOR ASSY 3RD STAGE | 3842160-6   | 1  | 12-156101-09303 | OVERHAULED   |  |
| 12. Remarks<br>THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:<br>IRM 49-24-79 Rev 9, 15 FEB 2016<br><br>TSN            HH.DD            JHH:MM)<br>7184. OS      rt 4=03><br>CSN           4819.00<br>TSO            0.00            (0 :00)<br>CSO            0.00   |                              |   |  |                 |  |  |
| 13a. Certifies that the items identified above were manufactured in conformity to:<br><input type="checkbox"/> approved design and are in condition for safe operation<br><input type="checkbox"/> data specified in block 12  |                              |   | 14a. 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>   |                 | 14c. Certificate/Approval Ref. No<br>EASA.145.0076                         |  |
| 13d. Name  |                              |   | 14d. Name<br>Chou kyee Hoon  |                 | 14e. Date (dd mmm yyyy)<br>09 OCT 2017                                     |  |
| 13e. Date (dd mmm yyyy)  |                              |   |  |                 |  |  |
| USER/INSTALLER RESPONSIBILITY<br>This certificate does not automatically authorize authority to install the item(s).<br><br>Where the user/installer performs P.R.I.J 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>  |                                | <b>AUTHORIZED RELEASE CERTIFICATE-<br/>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b>   |             |   | 3. Form Tracking Number:<br>20170003746521Y03<br>330066784 |  |
| 4. Organization Name and Address: Honeywell Aerospace Singapore Pte Ltd<br>(Gui Circle)<br>161 Gui Circle<br>Singapore 629619  |                                |  |             | ReP,air 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  | 1 TURBINE ROTOR ASSY 3RD STAGE | 3842160-6  | 1           | 12-156101-09303   | OVERHAULED   |  |
| 12. Remarks:<br>THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:<br>IRM 49-24-79 Rev 9, APR/29/2016<br><br><div style="display: flex; justify-content: space-between;"> <div> TSN        HH.DD        (HH:MM)<br/> 4819.00    7184.05    (7184:03)<br/> CSN        4819.00<br/> TSO        0.00        (0:00)<br/> 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:<br><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<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:  |  | 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<br><b>SINGAPORE</b>   |                               | 2. <b>CIVIL AVIATION AUTHORITY OF SINGAPORE</b><br><b>AUTHORIZE-6 RELEASE CERTIFICATE</b><br><b>CAAS(AW)95</b> |   |               |                            | 3. Form Tracking Number:<br>20170003746520Y06<br>330066784 |  |  |       |          |     |         |           |     |         |  |     |      |        |     |      |  |
| 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  | TURBINE ROTOR A.SSV 3RD STAGE | 3842160-6  | NIA   |               | 12-156101-09303            | OVERHAULED   |  |  |       |          |     |         |           |     |         |  |     |      |        |     |      |  |
| 13. Remarks:<br>THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:<br>IRM 49-24-79 Rev 9, APR/29/2016<br><br><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><br>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<br>Certifies that the parts identified were manufactured in conformity to:<br>D Approses data and are in condition for safe operation<br>C Non  |                               |  | 19. USED PARTS<br>(gJ SAR-145.50 Release to Service D Other regulation specified in Block 13.<br>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):<br>Chou Nyee Hoang  |                               |  | 23. Date (dd mmm yyyy):<br>09 OCT 2017  |               |                            | AWI/38<br>15   |  |  |       |          |     |         |           |     |         |  |     |      |        |     |      |  |
| <b>User/Installer Responsibilities</b><br>1. It is important to understand that this notice 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 (CMS), 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. |                               |  |   |               |                            |  |  |  |       |          |     |         |           |     |         |  |     |      |        |     |      |  |



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





|  |  |   |   |  |  |  |
|--|--|---|---|--|--|--|
| 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<br>Number:<br>20170003655568Y14<br>9001503174-80002 |  |
| 4. Organization Name and Address: 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>Hamel Hempstead, HP2 7UB<br>UNITED KINGDOM |  | 5. Work Order/Contract/Invoice<br>Number: 4705188555-000010<br>Page 1 of 1 |
| 6. Item:   | 7.   | 8. Part Number.   | 9. Quantity:  | 10. Serial Number:   | 11. Status / Work:   |  |
| Description: 001 I<br>EXCITER  |  | 3876195-9   | 5   | J17340009<br>See Continuation  | NEW  |  |
| 12. Remarks:<br>AIRWORTHINESS APPROVAL.<br>THIS EXCITER IS A SUBCOMPONENT OF A TSO AUTHORIZATION.<br>Block 10 Serial Number(s): (Continued):<br>J1734005,2, J17340006, J17340008, J17340004.                                     |  |   |   |  |  |  |
| 13a. Certifies the items Identified above were manufactured in conformity to:<br>181 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 checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 12<br>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:<br><br>-4-  | 13c. ApprovaVAuthorization No.:<br><br>ODA-602216-NM |   | 14b. Authorized Signature:  |  | 14c. Approval/Certificate No.:                                       |  |
| 13d. Name (Typed or Printed):<br><br>Stephen Foulger   | 13e. Date (dd/mmm/yyyy):<br><br>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)<br>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:<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>20170003762648Y15<br>329829652   |
| 4. Organization Name and Address: Honeywell International Inc<br>1 Cliff Garrett Drive<br>Anniston AL 36201 |   | Repair Station<br>ZX4R716M<br>Work Order/Contract/Invoice Number:<br>7848457<br>329787695<br>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:<br><input type="checkbox"/> approved design data and are in a condition for safe operation.<br><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<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. |  |
| <b>13b. Authorized Signature:</b>   | <b>13c. Approval/Authorization No.:</b> | <b>14b. Authorized Signature:</b>  | <b>14c. Approval/Certificate No.:</b><br><b>ZX4R716M</b> |
| <b>13d. Name (Typed or Printed):</b>  | <b>13e. Date(dd/mmm/yyyy):</b>          | <b>14d. Name (Typed or Printed):</b><br><b>Renee Blair</b>   | <b>14e. Date(dd/mmm/yyyy):</b><br><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<br><br>ip00 China  | 2. 'tIE fllM3:'.ti1.mJ CAAC <input type="checkbox"/> *tt<br><br><b>AUTHORIZED RELEASE CERTIFICATE/AIRWORTHINESS APPROVAL TAG</b> | Conformity MM: Airworthiness |  | 3. iiE-='5% ,<br>20170003762647Y05<br>329829652  | .Certificat_e Ref. No.             |                               |
| 4. lji{IT_ Organization Honeywell International Inc<br>1 Cliff Garrett Drive<br>Anniston AL 36201  |  |                              |  | 5. I11:lp./%J'iulji/(11.lji<br><b>Work Order/Contract/Invoice</b><br>7848457<br>329787695<br>Page 1 of 1 |                                    |                               |
| 6. ff-ls-Item  | 7. <b>P3</b><br>Description  | 8. #%<br>Part No.            | 9. fltt<br>Eligibility   | 10. W'(:fil:Qty  | 11. f-ls-/11;%<br>Serial/Batch No. | 12. r"A"/,:j:R<br>Status/Work |
| 001  | STARTER AIR TURBINE  | 3505814-3                    | NOT KNOWN  |  | 1541                               | OVERHAULED                    |
| 13. f:t Remarks<br>THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:<br>CL, !M 49-42-01 Rev 3, AUG/06/2011<br><br>HJ-I,DD (HH:MM)<br>CSO 0.00<br>CSR 0.00<br>TSO 0.00 (0:00)<br>TSR 0.00 (0:00)<br><br>SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED.  |  |                              |  |  |                                    |                               |
| 14. 新产品 New Parts<br>tt;t,)...ti! J'.9i((J;J;t ;tl;ill;/5' ,<br>*Bftc!m...国家适航条例进行制造/检查,<br>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。<br>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-<br>porting country. |  |                              | 15. fl:i1(1(J;t".fi, Used Parts<br>ttp,lJfj_tj!f"A"/,l>j. 1319\((J;):t ;tl;il l;/5' ,<br>Bftc!m...ti!O M Jllillii!Eii!:m'tl *illrrTIll=,<br>iY<1".l'l1, r m:t:R mm rr m.<br>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.<br>Signature<br>,-- ) -k<br>c   |  |                              | 10. mliBWl<br>Date<br>OCT/11/2017  |  |                                    |                               |
| 11. mm.A.!(£ crr ((J)<br>Name (Printed)  |  |                              | Renee Blair  |  |                                    |                               |





## 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 :ZX4R716MCustomer PO : 7848457  
Notification No: 000329787695  
Outline No : 3505814-3  
Mod To Outline. :3505814-3Customer: 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 :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  | .3503963-1 |            | N    | 1   | WASHER, THRUST |                |
| OUT | 3503963-1  |            | N    |     |                |                |

REWORK CODE :

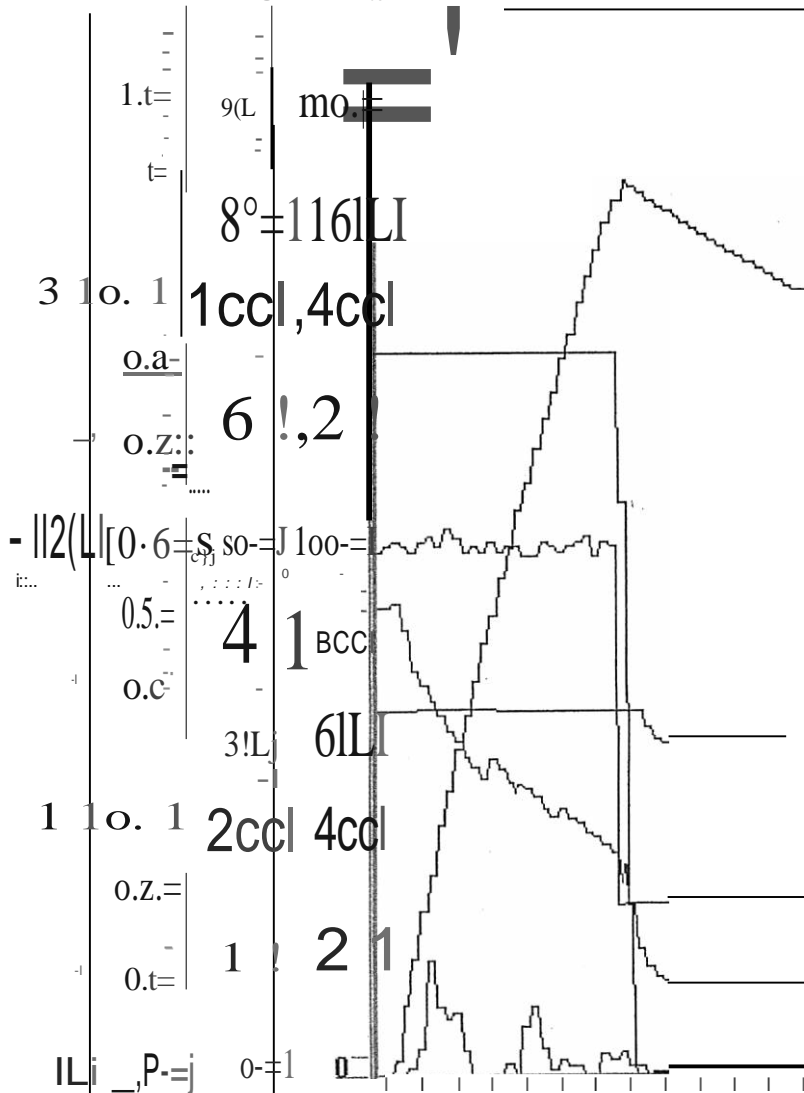
CONDITION CODE : 6780Wom

ACCT IND:

ANALYST REMARKS :

# MessungHistory

Filt\* <:c-t,JC, r-i,j,, \*JpPto ions ,)pti:,n, Hf.IP



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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:  
000.00 Of

Flow:  
000.00 ppm

AmbientPressure:  
029.40 inHGa

Ambienffemp.:  
000.00 Of

Humidity%

f///

Date:

Time:

Ren air Order:

Partnumber:

Dash-No:

SerialNo:

Oerator:

Acceleration Time:

VibDiSPlacenlentlv1a...

StarterinletTemp.:

5011466914RUN31eedsetn ointl

3505814

3

1541

Geesken

018.8 sec.

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

49-42-01

3

08/06/2011

09:59:42

11 October 2017

QS1186/2002

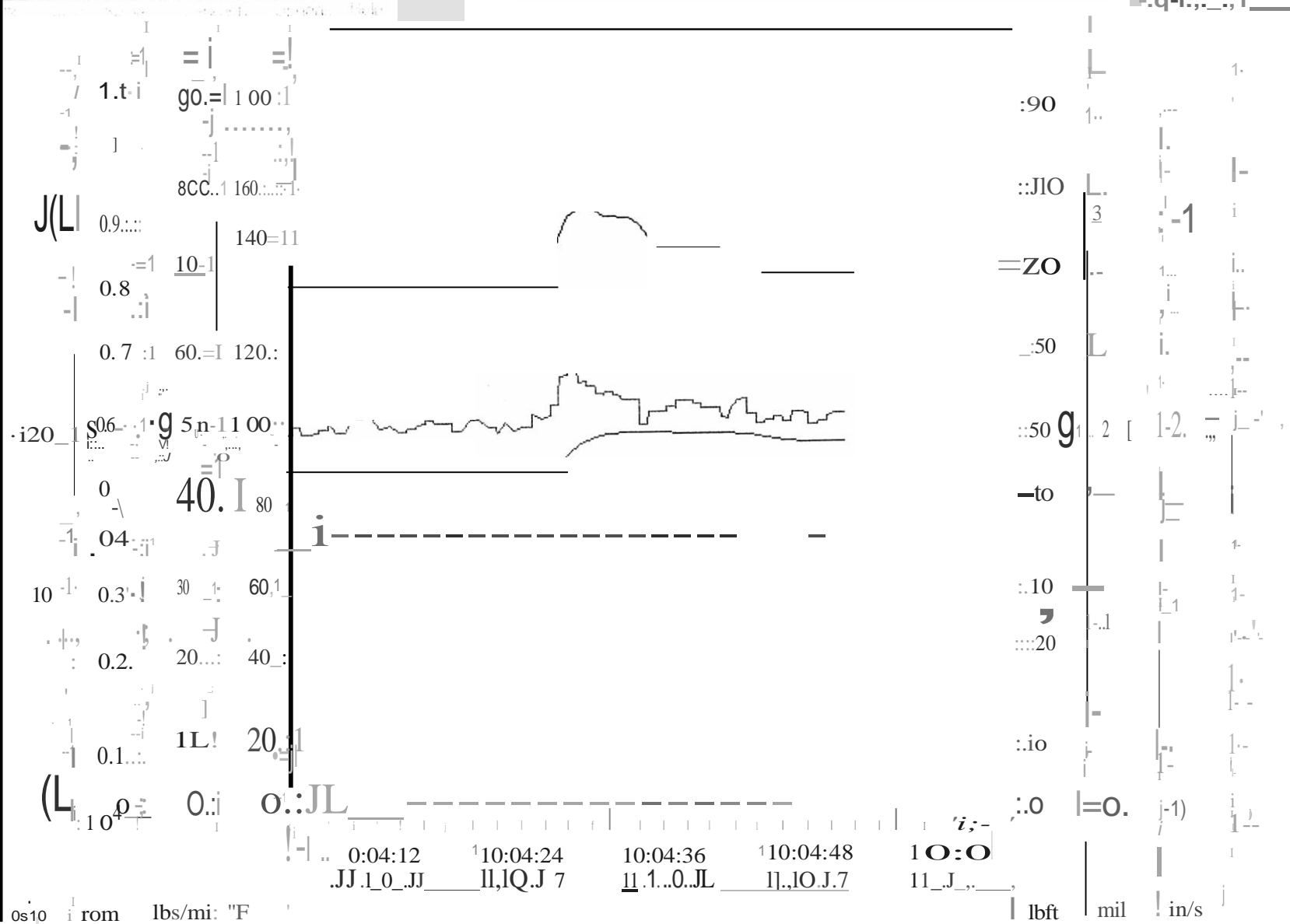
Ed

11:11

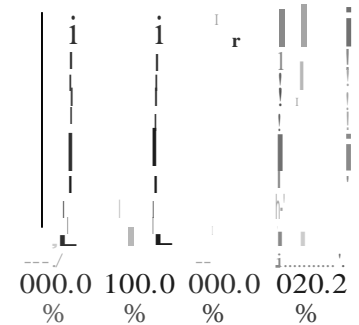
9:s9 AM







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 inHG  
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 rom lbs/mi: °F

Stop Brake Off

EMERGENCY STOP

| 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 |

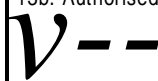
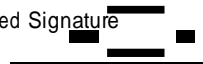
|   |                      |  |  |  |   |                        |
|---|----------------------|--|--|--|---|------------------------|
| 1. Country<br><b>SINGAPORE</b>  |                      | 2. <b>CIVIL AVIATION AUTHORITY OF SINGAPORE</b><br><b>AUTHORIZED RELEASE CERTIFICATE</b><br>CAAS(AW)95 |  |  | 3. Form Tracking Number: <b>ib gre<sup>509</sup>vos</b> |                        |
| 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   | IGNITION SYSTEM ASSY | 3888275-10   | N/A  | 1  | N/A   | REPAIRED               |
| 13. Remarks :<br>THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:<br>IRM 49-24-79 Rev 9, APR/29/2016<br>CMM 49-41-15 Rev 0, SEP/21/1994<br>CMM 49-41-17 Rev 6, NOV/30/2010<br>CMM 49-41-23 Rev 0, FEB/08/2000<br>TR 49-1 Rev -<br><br>ALTERNATE SN OUTGOING: J17340052<br>SERIES/ISSUE/AMDTS:NIL<br>MODS: NIL<br><br>SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED   |                      |  |  |  |   |                        |
| 1. <b>WPARTS</b><br>Certifies that the parts identified above were manufactured in conformity to:<br><b>D</b> Appro design data and are in condition for safe operation<br><b>D</b> Non-approved data specified in Block 13   |                      |  | 19. <b>USED PARTS</b><br>18.1 SAR-145.50 Release to Service <b>D</b> Other regulation specified in Block 13.<br>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:  |   | 21. CAAS Approval No.: |
|   |                      |  |  | <br>_____<br>:3-76, |   | <b>AWI/38</b>          |
| 18. Date (dd mmm yyyy)  |                      |  | 22. Name (Typed or Printed):   |  | 23. Date (dd mmm yyyy):                                 |                        |
| 118.  |                      |  | Tan Chat Pang  |  | 16 OCT 2017   |                        |
| <b>User / Installer Responsibilities</b><br>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 Competent Authority/Country<br><br>EASA  |                      | 2.<br><br><b>AUTHORISED RELEASE CERTIFICATE</b><br><br>EASA FORM 1 |  |                | 3. Form Tracking Number<br><br>20170003776507Y02<br><br>330053409                  |
| 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><br>10453748<br><br>330006248<br><br>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<br><p>THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:<br/> IRM 49-24-79 Rev 9, APR/29/2016<br/> CMM 49-41-15 Rev O, SEP/21/1994<br/> CMM 49-41-17 Rev 6, NOV/30/2010<br/> CMM 49-41-23 Rev 0, FEB/08/2000<br/> TR 49-1 Rev -</p> <p>ALTERNATE SN OUTGOING : J17340052<br/> SERIES/ISSUE/AMDTS:NIL<br/> MODS: NIL</p>  |                      |  |  |                |  |
| <p>• ,es 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</p>  |                      |  | <p>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.</p> |                |  |
| 13b. Authorised Signature<br><br>■■■■   |                      |  | 14b. Authorised Signature<br><br>VIE1,<br>z QC<br>O,s,16   |                | 14c. Certificate/Approval Ref. No<br><br>EASA.145.0076                             |
| 13e. Date 1:dd mmm yyyy) -----<br><br>V   |                      |  | 114d. Name<br>Tan Chat Pan g   |                | 14e. Date (dd mmm yyyy)<br><br>16 OCT 2017   |
| <p>USER/INSTALLER RESPONSIBILITIES<br/> This certificate does not automatically constitute authority to Install the item(s).</p> <p>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.</p> <p>Statements in blocks 13a and 14a do not constitute Installation certification. In all cases aircraft maintenance records must contain an Installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.</p> |                      |  |  |                |  |







|  |                    |  |  |                |  |  |
|--|--------------------|--|--|----------------|--|--|
| 1. Approving Competent Authority/Country<br><br>EASA   |                    | 2.<br><div>AUTHORISED RELEASE CERTIFICATE</div> <div>EASA FORM 1</div> |  |                | 3. Form Number<br>20170003776472Y02<br>330052988                           |  |
| 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  | MODULE DATA MEMORY | 304643-2   | 1  | GE12119        | INSPECTED/ TESTED  |  |
| 12. Remarks<br>THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:<br>IRM 49-24-79 Rev 9, APR/29/2016  |                    |  |  |                |  |  |
| 13a. Items 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. f;2) 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<br>  |                    |  | 14b. Authorised Signature<br><br>QC<br>1-5  |                | 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                                     |  |
| 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 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

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

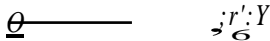
16OCT2017

**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<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>20170003776466Y03<br>330053325 |  |
| 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 OUTLINE, SURGE CONTROL | 3290814-5  | 1   | 3290814/888   | OVERHAULED   |  |
| 12. Remarks:<br>THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:<br>CMM 49-52-11 Rev 5, DEC/20/2003<br>CMM 49-52-13 Rev 7, JAN/05/2015<br>TR 49-3 Rev 7<br>NOTE: ACTUATOR SEALS, RING CLIP AND PISTON RING WERE REPLACED THIS SHOP VISIT.<br>HH.DD (HH:MM)<br>TSO 0.00 (0:00)<br>CSO 0.00<br>TSR 0.00 (0:00)<br><b>TEXT CONTINUED ON RIGHT SIDE</b><br><br>SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED   |                              |  |   |   |  |  |
| D les the items identified above were manufactured in conformity to:<br>D ed design data and are in a condition for safe operation.<br>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<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:<br>_____<br>(;   |   | 14c. Approval/Certificate No.:<br><b>FT4Y192M</b>              |  |
| 13d. Nam rinted):   |                              | 13e. Date(dd/mmm/y   |   | 14d. Name (Typed or Printed):<br><b>----- Tan Chat Pang</b> |  | 14e. Date (dd/mmm/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 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. Approving Competent Authority/Country<br><br>EASA   |                              | 2.<br><br><b>AUTHORISED RELEASE CERTIFICATE</b><br><br><b>EASA FORM 1</b> |  |                | 3. Form Tr,cking fiu111ber<br>20170003776465Y02<br>330053325               |  |
| 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 OUTLINE, SURGE CONTROL | 3290814-5   | 1  | 3290814/888    | OVERHAULED   |  |
| 12. Remarks  |                              |   | CONTINUED:   |                |  |  |
| THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:<br>CMM 49-52-11 Rev 5, DEC/20/2003<br>CMM 49-52-13 Rev 7, JAN/05/2015<br>TR 49-3 Rev 7<br>NOTE: ACTUATOR SEALS, RING CLIP AND PISTON RING WERE REPLACED THIS SHOP VISIT.   |                              |   | HH.DD (HH:MM)<br>CSR 0.00  |                |  |  |
| TEXT CONTINUED ON RIGHT SIDE   |                              |   |  |                |  |  |
| Items that the items identified above were manufactured in conformity to:<br>appr design data and are in condition for safe operation<br>non-approved data specified in block 12   |                              |   | 14a 621 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><br>gac<br>.s./76                            |  |                | 14c. Certificate/Approval Ref. No<br><br>EASA.145.0076                     |  |
| 13d. Na  | 13e. Date (dd mmm yyyy)      | 14d. Name<br><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 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><b>SINGAPORE</b>   |                        | 2. <b>CIVIL AVIATION AUTHORITY OF SINGAPORE</b><br><b>AUTHORIZED RELEASE CERTIFICATE</b><br><b>CAAS(AW)95</b> |  |  |                           | 3. Form Tracking Number:<br>20170003776433Y06<br>330041083                     |  |
| 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  | PNEUMATIC CLUSTER ASSY | 3884863-7   | N/A  | 1  | P-1525                    | REPAIRED   |  |
| 13. Remarks :<br>THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:<br>CMM 49-52-11 Rev 5, DEC/20/2003<br>CMM 49-52-15 Rev 5, FEB/23/2010<br>ORI P30260 Rev-, APR/05/2004<br>TR 49-4<br><br>HH,DD (HH:MM)<br>CSR 0.00<br>TSR 0.00 (0:00)<br>SERIES/ISSUE/AMDTs:1<br>MODS: NIL<br><br>SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED  |                        |   |  |  |                           |  |  |
| 18. W PARTS<br>Certifies that the parts identified above were manufactured in conformity to:<br><b>0</b> Appro design data and are in condition for safe operation<br><b>D</b> Non-approved data specified in Block 13   |                        |   | 19. USED PARTS<br><b>I</b> SAR-145.50 Release to Service <b>D</b> Other regulation specified in Block 13.<br>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:<br> |                           | 21. CAAS Approval No.:<br><b>AWI/38</b>  |  |
| 18. Date (dd mmm yyyy)<br><b>1</b>   |                        |   |  | 122. Name (Typed or Printed):<br><b>Tan Chat Pang</b>  |                           | 23. Date (dd mmm yyyy):<br><b>16 OCT 2017</b>                                  |  |
| User/ Installer Responsibilities<br>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(CMS), it is essential that the user/Installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the CMS.<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>20170003776431Y03<br>330041083 |   |
| 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><b>10453748</b><br>330006248<br>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:<br>THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:<br>CMM 49-52-11 Rev 5, DEC/20/2003<br>CMM 49-52-15 Rev 5, FEB/23/2010<br>ORI P30260 Rev-, APR/05/2004<br>TR 49-4<br><br>HH.DD (HH:MM)<br>CSR 0.00<br>TSR 0.00 (0:00)<br>SERIES/ISSUE/AMDTs:1<br>MODS: NIL<br><br>SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED   |                        |  |  |                            |  |   |
| Unless 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> esign data specified in Block 12.  |                        |  | 14a. (g) 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:<br><br>_____  |                            | 4c. Approval/Certificate No.:<br><br><b>FT4Y192M</b>         |   |
| <b>rinted):</b>  |                        | 113e. <b>Date</b> (dd/mmm  | 14d. Name (Typed or Printed):<br><br><b>Tan Chat Pang</b>  |                            | 14e. Date (dd/mmm/yyyy):<br><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 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<br><br>EASA  |                        | 2.<br><br><b>AUTHORISED RELEASE CERTIFICATE</b><br><br>EASA FORM 1 |   |                | 3. Form Tracking Number<br>20170003776430Y02<br>330041083                  |
| 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   | PNEUMATIC CLUSTER ASSY | 3884863-7  | 1   | P-1525         | REPAIRED   |
| 12. Remarks<br>THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:<br>CMM 49-52-11 Rev 5, DEC/20/2003<br>CMM 49-52-15 Rev 5, FEB/23/2010<br>ORI P30260 Rev-, APR/05/2004<br>TR 49-4<br><br><div style="display: flex; justify-content: space-between;"> <div> HH.DD (HH:MM)<br/> CSR 0.00<br/> TSR 0.00 (0:00)<br/> SERIES/ISSUE/AMDTs:1<br/> MODS: NIL </div> <div></div> </div>   |                        |  |   |                |  |
| 13a. Items that 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. b21 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<br><br>V--  |                        |  | 14b. Authorised Signature<br><br>1W?<br>QC...<br>16   |                | 14c. Certificate/Approval Ref. No<br><br>EASA.145.0076                     |
| 13e. Date (dd mmm yyyy)   |                        |  | 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:

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. descbed 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:  |  | 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>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><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>  |                     |  |   |                |  |  |
| 13a. 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. 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><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 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 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. Date (dd mmm yyyy):  |  |
| 21. Authorized Signature:   |                               |  | 22. Authorized Signature: |                          |                           | 23. CAAS Approval No.:   |  |
| [Signature]   |                               |  | [Signature]               |                          |                           | AWI/38   |  |
| User / Installer Responsibilities<br>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 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><div>-&lt;W<br/>ac<br/>-,,,76</div>   |                | 14c. Certificate/Approval Ref. No<br>EASA.145.0076                         |  |
| 13e. Date (dd mmm yyyy)   |                               |  | 114d. Name<br>Tan Chat Pang  |                | 14e. Date (dd mmm yyyy)<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.  |                            |  |  |                |  |  |
| 13a. Items 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. <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 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>J-17/fr.<br>at QC<br>76   |                | 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                                     |  |
| 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 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 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  |  |

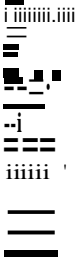
12. Remarks:  
THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:  
CMM 49-31-71 Rev 8, FEB/22/2012  
UNIT TESTED.


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><br>'c- W<<'<<br>..: QC,,  | 14c. Approval/Certificate No.:<br><br><b>FT4Y192M</b> |
| 13d. Name (Typed or Printed):   | 13e. Date(dd/mmm/yyyy):          | 14d. Name (Typed or Printed):<br><br><b>Tan Chat Pang</b>  | 14e. Date (dd/mmm/yyyy):<br><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

SINGAPORE

2.

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

3. Fann Tracking Number:

20170003775335  
330053309W0

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     | 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

18. WPARTS

Certifies that the parts identified above were manufactured in conformity to:  

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

19. USED PARTS

SAR-145.50 Release to Service ☒ Other regulation specified in Block 13.  
Certifies that unless otherwise specified in Block 13, the work identified in Block 12 as 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:

1. CAAS Approval No.:

AWI/38

17. Name (Type printed):

18. Date (dd mmm yyyy)

122. Name (Typed or Printed):

23. Date (dd mmm yyyy):

Tan Chat Pang

16 OCT 2017

User/ Installer Responsibilities

1. It is Important to understand that the existence of the Certificate alone does not automatically constitute authority to install the part/component/assembly.

2. Where the user/installer works in accordance with the national regulations of an Airworthiness Authority different from the Civil Aviation Authority of Singapore(CAAS), it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the CAAS.

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

|   |                          |  |              |                            |  |  |
|---|--------------------------|--|--------------|----------------------------|--|--|
| 1. Approving Civil Aviation Authority/Country:<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 |                          |  |              | 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   | 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>ed 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>"-.W L<br>,  | 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 authoriw 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>i 76 mllj  |                | 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.<br><input type="checkbox"/> ed design data specified in Block 12. |                                  | 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>EASA.145.0076 |  |
| 13e. Date(dd mmmmyyyy)  |                |   | 14d. Name<br>Tan Chat Pang   | 14e. Date (dd mmm yyyy)<br>16 OCT 2017             |  |
| <b>USER/INSTALLER RESPONSIBILITIES</b><br>This certificate does not automatically constitute authority to install the item(s).<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>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

|   |                    |  |              |                    |  |  |
|---|--------------------|--|--------------|--------------------|--|--|
| 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><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></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><div>W.C.<br/>QC,<br/>1 ..</div></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        design data and are in condition for safe operation<br>data specified in block 12   |                |   | 14a. 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. |                |   |   |                |  |                         |

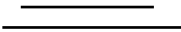




|  |                  |  |           |  |  |  |
|--|------------------|--|-----------|--|--|--|
| 1. Approving Civil Aviation<br>Authority/Country:<br><b>FAA/United States</b>  |                  | 2. <b>AUTHORIZED RELEASE CERTIFICATE</b><br><b>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b> |           |  | 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.:                             |  |
|  |                  |  |           | <u>C?</u>  | <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 style="display: flex; justify-content: space-between;"> <div> CSR      0.00<br/> TSR      0.00 </div> <div> HH.DD      (HH:MM)<br/> <br/> (0 :00) </div> </div>   |                  |  |  |                |  |
| - les that the Items identified above were manufactured in conformity to:<br>esign 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    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<br><br>  |                  |  | 14b. Authorised Signature<br><br>    |                | 14c. Certificate/Approval Ref. No<br><br>EASA.145.0076                     |
|  13e. Date (dd mmm yyyy)  |                  |  | 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: HONEYWELL INTERNATIONAL INC<br>1720 East Grant Street<br>PHOENIX AZ 85034   |  |  |              | 5. Work Order/Contract/Invoice Number:<br>20170003709523Y14<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 D 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.**

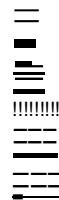
FM FORM 8130-3 (O - , J)


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: 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 is responsible for ensuring that the work is performed in accordance with the applicable regulations of the country specified in Block 1. |   |  |              |  |                    |

|   |                               |  |              |  |                    |
|---|-------------------------------|--|--------------|--|--------------------|
| 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><br>ODA-602216- M   |                               | 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><b>BATCH NUMBER:0004992143</b>  |                 |   |   |  |   |  |
| 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:   |   |  |
| 13d. Name (Typed or Printed):<br><br>Stephen Foulger  |                 | 13e. Date (dd/mm/yyyy):<br><br>06/OCT/2017  |   | 14c. Approval/Certificate No.:   |   |  |
|   |                 |   |   | 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. |                 |   |   |  |   |  |

