

One Dale's Way NCCo. Airport (KILG)  
New Castle, DE 19720  
302-325-2727 8004REDEAGLE

Reg. Number: N369S  
Make/Model: MOONEY M20M  
Year:  
Serial Number: 27-0093

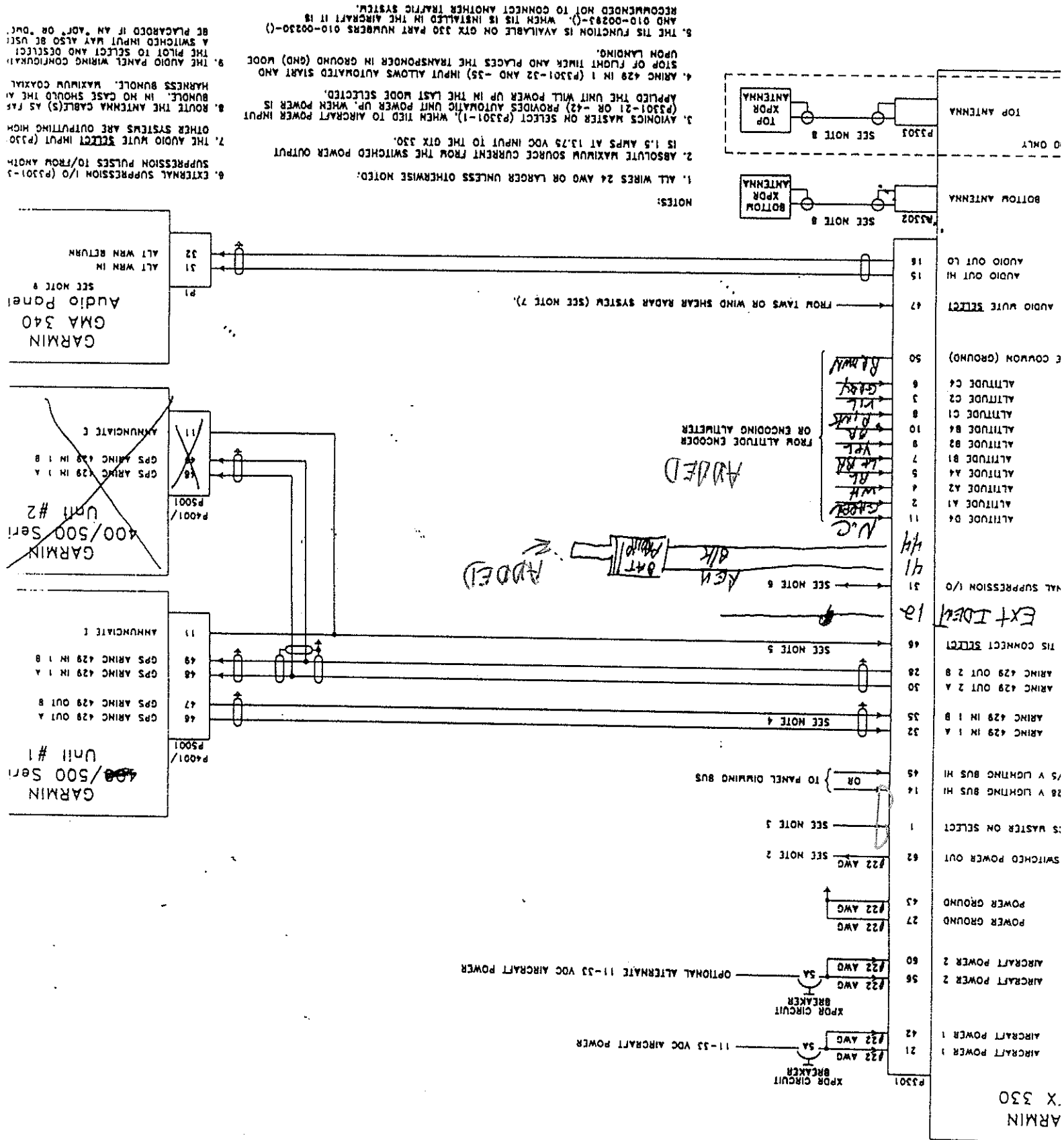
Date: 09-16-2005  
Tach: 2004.5  
Max Weight: 3368  
Work Order: 4485

|                       |        |
|-----------------------|--------|
| New A/C Empty Weight: | 2461.1 |
| New A/C Empty C.G.:   | 45.66  |
| New A/C Useful Load:  | 906.9  |

Landing C.G. Range:  
Gear Extended C.G. Range:  
Empty Weight C.G. Range:

DALE WALEY, A222281630

Figure 4-1 GTX 330 TYPICAL INTERCONNECT WIRING DIAGR





Dallas Avionics Inc.

N3698

VIEW looking FROM BACK

KEY

~~4~~

3060 90

2050 80

1040 70

Inst Jumpers bet

2,3, 5,6, + 8,9

1) NO GRAY CODED ALT?

2) F.F NOT TALKING TO 530? 6 to 57 ✓

#1A9232/14

3) NO ALT INPUT to 330?

4) 429 Port 3 A only to 330?

805 W. FIFTH STREET, LANSDALE, PA 19446

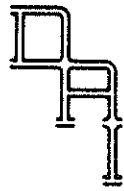
LCL: 215-368-9966

FAX: 215-368-9673

NATL: 1-800-523-5949

5) NO TEMP PROBE INST

B



# Dallas Avionics Inc.

330  
28 now — 11 49  
30 48 ✓  
32 46 ✓  
35 47 ✓  
46 49 11

xpndr swap 46+28, R+ Buss  
add Gray code

805 W. FIFTH STREET, LANSDALE, PA 19446

LCL: 215-368-9966

FAX: 215-368-9673

NATL: 1-800-523-5949





**Dallas Avionics Inc.**

Exc Hange to MINI FLOW L  
750.00

Series X 935

845.00 <sup>15</sup> 950.00 ✓  
in stock HARD WIRED

FAX PO on MONDAY

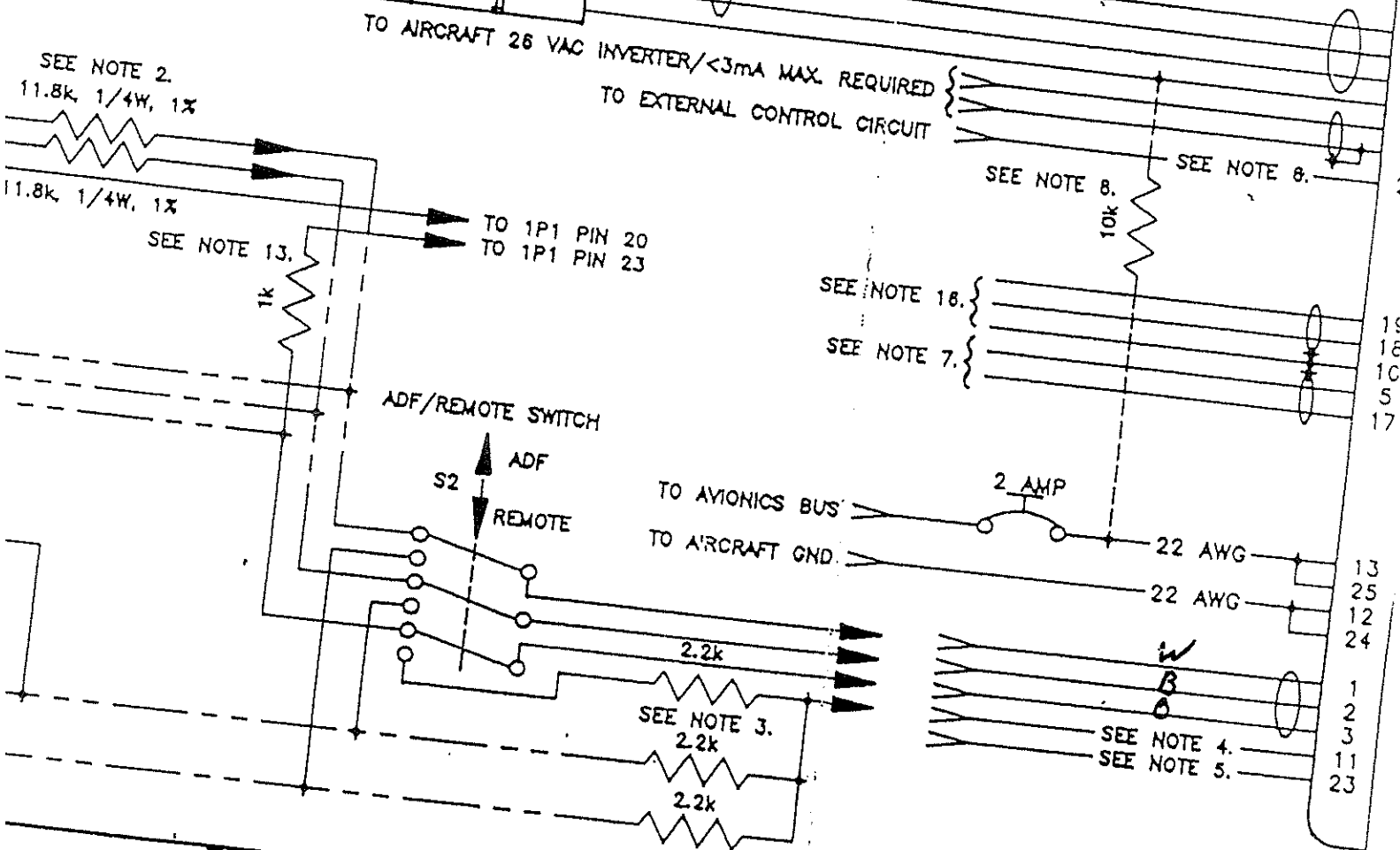
**805 W. FIFTH STREET, LANSDALE, PA 19446**

LCL: 215-368-9966

FAX: 215-368-9673

NATL: 1-800-523-5949

|                                |                            |                            |                                                            |                              |                   |                                                              |                             |                                                   |                            |
|--------------------------------|----------------------------|----------------------------|------------------------------------------------------------|------------------------------|-------------------|--------------------------------------------------------------|-----------------------------|---------------------------------------------------|----------------------------|
| 18R 614 SERIES<br>CDU<br>(BNC) | APOLLO<br>NMC 2001<br>(P1) | TNL 1000/DC<br>(P1)        | TNL 2100T<br>TNL 3100T<br>TNL 2000/T<br>TNL 3000/T<br>(P1) | TNL 2100<br>TNL 3100<br>(P1) | TI-9100/A<br>(P1) | NORTHSTAR<br>GPS-80<br>GPS-800<br>M1/A<br>M2/A<br>M3<br>(P1) | GARMIN<br>GPS 100<br>(J100) | GARMIN<br>GPS 150<br>GPS 155<br>GPS 185<br>(J100) | MAGELLAN<br>SKYNAV<br>5000 |
| SOCKET<br>SHELL                | 19 OR 37<br>20             | 3<br>15                    | 3<br>15                                                    | 5<br>37                      | 8<br>5<br>7<br>25 | 8<br>11                                                      | 13<br>15                    | 24<br>26                                          | 12<br>7                    |
| AIR<br>332B<br>129)            | KING<br>KSG-105<br>(P1051) | KING<br>KI-525A<br>(PS252) | SPERRY<br>C-14A-43<br>(1P1)                                |                              |                   |                                                              |                             |                                                   |                            |
| IND                            | V                          | P                          | L<br>M<br>K<br>D                                           |                              |                   |                                                              |                             |                                                   |                            |



|          |           |              |                                      |
|----------|-----------|--------------|--------------------------------------|
| FILENAME | L0011RN   | DESCRIPTION  |                                      |
| DATE     | 15-JUN-94 | DRAWING NAME | ARGUS 5000/7000 INTERCONNECT DIAGRAM |
|          |           |              | SHEET 1                              |

STRAIGHT TUBE

AVIATION  
MAINTENANCE  
ACT

1. Approving Canadian Authority/Country

2. Transport Canada

3. Manufacturer's Name and Address

4. Manufacturer's Part Number

5. Manufacturer's Part Description

6. Item

7. Description

8. Part Number

9. Part Description

10. Part Number

11. Part Description

12. Remarks

13. Remarks

14. Remarks

15. Remarks

16. Remarks

17. Remarks

18. Remarks

19. Remarks

20. Remarks

21. Remarks

22. Remarks

23. Remarks

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P/N 13889

S/N-LOT

CONE

Export HTS: 8482200070

Import HTS: 8482200070

ECCN: EAR99

C OF O: UNITED STATES

No Shelf Life Limit

Received by: c28165 Date: 08/29/2014

Cessna Service Parts & Prgms 5800 E. PAWNEE Wichita

TAPERED ROLLER BEARINGS

FAA-PMA

P/N 13889

S/N-LOT

CONE

Export HTS: 8482200070

Import HTS: 8482200070

ECCN: EAR99

C OF O: UNITED STATES

No Shelf Life Limit

Received by: c28165 Date: 08/29/2014

Cessna Service Parts & Prgms 5800 E. PAWNEE

TAPERED ROLLER BEARINGS

P/N 13836

S/N-LOT

BEARING CUP

Export HTS: 8803200030

Import HTS: 8803200030

ECCN: 9A991

C OF O: UNITED STATES

No Shelf Life Limit

Received by: c74498 Date: 03/20/2014

Cessna Service Parts & Prgms 5800 E. PAWNEE Wichita, KS

TAPERED ROLLER BEARINGS

P/N 13836

S/N-LOT

BEARING CUP

Export HTS: 8803200030

Import HTS: 8803200030

ECCN: 9A991

C OF O: UNITED STATES

No Shelf Life Limit

Received by: c74498 Date: 03/20/2014

Cessna Service Parts & Prgms 5800 E. PAWNEE Wichita

TAPERED ROLLER BEARINGS

1. Approving Civil Aviation Authority/Country  
Transport Canada

2. AUTHORIZED RELEASE CERTIFICATE  
FORM ONE

3. Form Tracking No.  
(YYMMDDJ-KNNY)  
140612-3225

4. Organizations Name and Address  
INSIGHT INSTRUMENT CORPORATION  
599 INDUSTRIAL DRIVE  
PORT ERIE, ONTARIO, CANADA L2A 5M1

5. Work Order/Contract/Invoice  
N/A

| 6. Item | 7. Description   | 8. Part No. | 9. Qty. | 10. Serial/Date No. | 11. Status/Work |
|---------|------------------|-------------|---------|---------------------|-----------------|
| 1       | CHT Gasket Probe | 2853        | 1       | 24826               | NEW             |

12. Remarks  
NONE

13a. Certifies that the items identified above were manufactured in conformity to:

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

☐ Non-approved design data specified in block 12.

13b. Signature  
D. MARGETT

13c. Approved Organization Number  
42-90

13d. Name  
D. MARGETT

13e. Date (dd/mm/yyyy)  
JUN 30 14

14a. Signature

14b. Approved Organization Number

14c. Date (dd/mm/yyyy)

This certificate does not constitute authority to install.  
Installers must act in accordance with the national regulations of a country other than that specified in block 1 must ensure that their regulations recognize certifications from the country specified.

Statements in blocks 13a or 14a do not constitute installation certification. In all cases, the technical request for the aircraft must contain an installation certification issued in accordance with the appropriate national regulations before the aircraft may be flown.

Installer Responsibilities

Important: See notes

# AEROSPACE WELDING MINNEAPOLIS, INC.

1045 Gemini Road, Eagan, MN 55121 651-379-9888

FAA Repair Station #UWDR792L

163759

Form 100

|                                 |                           |                    |           |
|---------------------------------|---------------------------|--------------------|-----------|
| NAME<br>PATTON AVIATION, LLC    | SINAWI                    | Job:               | 81033     |
| ADDRESS<br>2491 OVERLOOK DR     | CITY<br>BILLINGS MT 59105 | Preliminary Date   | 4/17/2015 |
| Make & Model<br>MOONEY M20M TLS | Part Number<br>LW12728    | Hidden Damage Date | 4/24/2015 |
| Unit Description<br>SEE BELOW   |                           | In Progress Date   | 4/27/2015 |
| Registration No.                |                           | Final Date         | 4/28/2015 |

## CUSTOMER SERVICES REQUESTED

DESCRIPTION: MOONEY M20M TLS BRAVO - ADAPTER CYL # 2 & 3

### Discrepancies Noted:

|                                        |                                                |                                                |
|----------------------------------------|------------------------------------------------|------------------------------------------------|
| <input type="checkbox"/> OUTERSHELL    | <input type="checkbox"/> BALL JOINT            | <input type="checkbox"/> BELLOWS               |
| <input type="checkbox"/> OVERBOARD     | <input type="checkbox"/> BELL JOINT            | <input type="checkbox"/> HEAT FINS             |
| <input type="checkbox"/> BAFFLE        | <input type="checkbox"/> INLAY                 | <input type="checkbox"/> STRAIGHT TUBE         |
| <input type="checkbox"/> END PLATE     | <input type="checkbox"/> OVERLAY               | <input type="checkbox"/> BRACKET               |
| <input type="checkbox"/> SHROUD RING   | <input type="checkbox"/> INLET EXTENSION       | <input type="checkbox"/> BOLT FLANGE           |
| <input type="checkbox"/> BEADED END    | <input checked="" type="checkbox"/> RISER TUBE | <input type="checkbox"/> TOP TUBE              |
| <input type="checkbox"/> TAB           | <input type="checkbox"/> FLANGE                | <input type="checkbox"/> CRACK WELD            |
| <input type="checkbox"/> SHAFT         | <input type="checkbox"/> TAILPIPE              | <input checked="" type="checkbox"/> SLIP JOINT |
| <input type="checkbox"/> BUTTERFLY     | <input type="checkbox"/> FLOW DIVIDER          | <input type="checkbox"/> ELBOW                 |
| <input type="checkbox"/> CLEAN & INSP. | <input type="checkbox"/> BODY                  | <input type="checkbox"/> SKIN                  |
| <input type="checkbox"/>               | <input type="checkbox"/>                       | <input type="checkbox"/>                       |

INSPECTOR'S INITIALS TK

### Corrective Action: ITEMS REPLACED OR REPAIRED

|                                        |                                          |                                        |
|----------------------------------------|------------------------------------------|----------------------------------------|
| <input type="checkbox"/> OUTERSHELL    | <input type="checkbox"/> BALL JOINT      | <input type="checkbox"/> BELLOWS       |
| <input type="checkbox"/> OVERBOARD     | <input type="checkbox"/> BELL JOINT      | <input type="checkbox"/> HEAT FINS     |
| <input type="checkbox"/> BAFFLE        | <input type="checkbox"/> INLAY           | <input type="checkbox"/> STRAIGHT TUBE |
| <input type="checkbox"/> END PLATE     | <input type="checkbox"/> OVERLAY         | <input type="checkbox"/> BRACKET       |
| <input type="checkbox"/> SHROUD RING   | <input type="checkbox"/> INLET EXTENSION | <input type="checkbox"/> BOLT FLANGE   |
| <input type="checkbox"/> BEADED END    | <input type="checkbox"/> RISER TUBE      | <input type="checkbox"/> TOP TUBE      |
| <input type="checkbox"/> TAB           | <input type="checkbox"/> FLANGE          | <input type="checkbox"/> CRACK WELD    |
| <input type="checkbox"/> SHAFT         | <input type="checkbox"/> TAILPIPE        | <input type="checkbox"/> SLIP JOINT    |
| <input type="checkbox"/> BUTTERFLY     | <input type="checkbox"/> FLOW DIVIDER    | <input type="checkbox"/> ELBOW         |
| <input type="checkbox"/> CLEAN & INSP. | <input type="checkbox"/> BODY            | <input type="checkbox"/> SKIN          |
| <input type="checkbox"/>               | <input type="checkbox"/>                 | <input type="checkbox"/>               |

INSPECTOR'S INITIALS TK

### Material Type Approved Data

|                                                       |                                                |
|-------------------------------------------------------|------------------------------------------------|
| <input checked="" type="checkbox"/> 347 SS FILLER ROD | <input checked="" type="checkbox"/> 43.13-1B   |
| <input checked="" type="checkbox"/> 321 SS            | <input type="checkbox"/> MANUFACTURER'S MANUAL |
| <input type="checkbox"/> 4130 CHROMALLY               | <input type="checkbox"/> AIR CARRIER'S MANUAL  |
| <input type="checkbox"/> 4130 ROD                     | <input type="checkbox"/>                       |
| <input type="checkbox"/> INCONEL                      | <input type="checkbox"/>                       |
| <input type="checkbox"/> INCONEL ROD                  | <input type="checkbox"/>                       |
| <input type="checkbox"/>                              | <input type="checkbox"/>                       |
| <input type="checkbox"/>                              | <input type="checkbox"/>                       |

AUTHORIZED AND CONDITIONS AGREED TO AS STATED ABOVE

BY TK DATE 4/28/2015

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                                                                                                                                                                                                                                                                                |              |                                                 |                                    |                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------|------------------------------------|-------------------------------------------------|
| 1. Approving Civil Aviation Authority/Country<br>FAA/United States                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 | 2. <b>AUTHORIZED RELEASE CERTIFICATE</b><br>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG                                                                                                                                                                                        |              |                                                 | 3. Form Tracking Number:<br>163759 |                                                 |
| 4. Organization Name and Address:<br><b>Aerospace Welding Minneapolis, Inc. 1045 Gemini Road Eagan MN 55121 (UWDR792L)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |                                                                                                                                                                                                                                                                                |              |                                                 |                                    |                                                 |
| 6. Item:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7. Description: | 8. Part Number:                                                                                                                                                                                                                                                                | 9. Quantity: | 10. Serial Number:                              | 11. Status/Work:                   | 5. Work Order/Contract/Invoice Number<br>163759 |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ADAPTER #2 & #3 | LW12728                                                                                                                                                                                                                                                                        | 1 each       | 163759                                          | OVERHAULED                         |                                                 |
| 12. Remarks:<br>REF: WORK ORDER #163759.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |                                                                                                                                                                                                                                                                                |              |                                                 |                                    |                                                 |
| <p>Aerospace Welding Minneapolis, Inc. certifies that the work specified in block 12/13 was carried out in accordance with EASA part 145 and in respect to that work, the component is considered ready for release to service under EASA part 145 Approval Number: EASA. 1456155. This form covers certification of the part identified in block 7/8 only and any additional EASA W12728A requirements are the responsibility of the installer.</p>                                                                                                                          |                 |                                                                                                                                                                                                                                                                                |              |                                                 |                                    |                                                 |
| 13a. Certifies the items identified above were manufactured in conformity to:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 | 14a. <input checked="" type="checkbox"/> 14 CFR 439 Return to Service <input checked="" type="checkbox"/> Other regulation specified in Block 12                                                                                                                               |              |                                                 |                                    |                                                 |
| <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                                                                                                                                                                                                                                                                                                                                                                                                           |                 | 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.:<br>UWDR792L      |
| 13d. Name (Typed or Printed):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 | 13e. Date (dd/mm/yyyy):                                                                                                                                                                                                                                                        |              | 14d. Name (Typed or Printed):<br>Tom Knaresboro |                                    | 14e. Date (dd/mm/yyyy):<br>28 Apr 2015          |
| User/Installer Responsibilities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                                                                                                                                                                                                                                                                                |              |                                                 |                                    |                                                 |
| It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.<br>Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than 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 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.                                                                                                                                                                                                                                                                                                 |                 |                                                                                                                                                                                                                                                                                |              |                                                 |                                    |                                                 |

# AEROSPACE WELDING MINNEAPOLIS, INC.

1045 Gemini Road, Eagan, MN 55121 651-379-9888

FAA Repair Station #UWDR792L

163760

Form 100

Job: 81033

NAME: PATTON AVIATION, LLC

SIN AWI

N/A

ADDRESS: 2491 OVERLOOK DR

CITY

BILLINGS MT 59105

INS

Preliminary Date 4/17/2015

14K

Make & Model: MOONEY M20M TLS

Part Number 40B19822

SP

Hidden Damage Date 4/24/2015

14K

Unit Description: SEE BELOW

CT

In Progress Date 4/27/2015

14K

Registration No.

ON

Final Date 4/28/2015

14K

## CUSTOMER SERVICES REQUESTED

DESCRIPTION: MOONEY M20M TLS BRAVO - CYL # 1 & 3 RISER

### Discrepancies Noted:

- ☐ OUTERSHELL
- ☐ BALL JOINT
- ☐ BELLOWS
- ☐ OVERBOARD
- ☐ BELL JOINT
- ☐ HEAT FINS
- ☐ BAFFLE
- ☐ INLAY
- ☐ STRAIGHT TUBE
- ☐ END PLATE
- ☐ OVERLAY
- ☐ BRACKET
- ☐ SHROUD RING
- ☐ INLET EXTENSION
- ☐ BOLT FLANGE
- ☐ BEADED END
- ☐ RISER TUBE
- ☐ TOP TUBE
- ☐ TAB
- ☐ FLANGE
- ☐ CRACK WELD
- ☐ SHAFT
- ☐ TAILPIPE
- ☐ SLIP JOINT
- ☐ BUTTERFLY
- ☐ FLOW DIVIDER
- ☐ ELBOW
- ☐ CLEAN & INSP.
- ☐ BODY
- ☐ SKIN
- ☐

INSPECTOR'S INITIALS

14K

### Corrective Action: ITEMS REPLACED OR REPAIRED

- ☐ REPAIR
- ☐ REPAIR
- ☐ REPAIR
- ☐ REPAIR
- ☐ OUTERSHELL
- ☐ BALL JOINT
- ☐ BELLOWS
- ☐ OVERBOARD
- ☐ BELL JOINT
- ☐ HEAT FINS
- ☐ BAFFLE
- ☐ INLAY
- ☐ STRAIGHT TUBE
- ☐ END PLATE
- ☐ OVERLAY
- ☐ BRACKET
- ☐ SHROUD RING
- ☐ INLET EXTENSION
- ☐ BOLT FLANGE
- ☐ BEADED END
- ☐ RISER TUBE
- ☐ TOP TUBE
- ☐ TAB
- ☐ FLANGE
- ☐ CRACK WELD
- ☐ SHAFT
- ☐ TAILPIPE
- ☐ SLIP JOINT
- ☐ BUTTERFLY
- ☐ FLOW DIVIDER
- ☐ ELBOW
- ☐ CLEAN & INSP.
- ☐ BODY
- ☐ SKIN
- ☐

INSPECTOR'S INITIALS

14K

### Material Type

### Approved Data

- ☒ 347 SS FILLER ROD
- ☒ 43.13-1B
- ☒ 321 SS
- ☐ MANUFACTURER'S MANUAL
- ☐ 4130 CHROMALLY
- ☐ AIR CARRIER'S MANUAL
- ☐ 4130 ROD
- ☐ INCONEL
- ☐ INCONEL ROD
- ☐
- ☐
- ☐

AUTHORIZED AND CONDITIONS AGREED TO AS STATED ABOVE

BY

*[Signature]*

DATE 4/28/2015

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                                                                                                                                                   |              |                                                                                                                                                                                                                                                                                       |                  |                                    |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------------------------|--|
| 1. Approving Civil Aviation Authority/Country<br>FAA/United States                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 | 2. <b>AUTHORIZED RELEASE CERTIFICATE</b><br>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG                                                           |              |                                                                                                                                                                                                                                                                                       |                  | 3. Form Tracking Number:<br>163760 |  |
| 4. Organization Name and Address:<br><b>Aerospace Welding Minneapolis, Inc. 1045 Gemini Road Eagan MN 55121 (UWDR792L)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |                                                                                                                                                   |              |                                                                                                                                                                                                                                                                                       |                  |                                    |  |
| 6. Item:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7. Description: | 8. Part Number:                                                                                                                                   | 9. Quantity: | 10. Serial Number:                                                                                                                                                                                                                                                                    | 11. Status/Work: |                                    |  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | RISER           | 40B19822                                                                                                                                          | 1 each       | 163760                                                                                                                                                                                                                                                                                | OVERHAULED       |                                    |  |
| 12. Remarks:<br>REF: WORK ORDER #163760.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |                                                                                                                                                   |              |                                                                                                                                                                                                                                                                                       |                  |                                    |  |
| <p>Aerospace Welding Minneapolis, Inc. certifies that the work specified in block 12/13 was carried out in accordance with EASA part 145 and in respect to that work, the component is considered ready for release to service under EASA part 145 Approval Number:EASA. 1456155. This form covers certification of the part identified in block 7/8 only and any additional EAS40B19822A requirements are the responsibility of the installer.</p>                                                                                                                                                                                                                                                                                                                                                                                                                           |                 |                                                                                                                                                   |              |                                                                                                                                                                                                                                                                                       |                  |                                    |  |
| 13a. Certifies the items identified above were manufactured in conformity to:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 | 14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input checked="" type="checkbox"/> Other regulation specified in Block 12 |              | <p>Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.</p> |                  |                                    |  |
| 13b. Authorized Signature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 | 13c. Approval/Authorization No.:                                                                                                                  |              | 14b. Authorized Signature:                                                                                                                                                                                                                                                            |                  | 14c. Approval/Certificate No.:     |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                                                                                                                                                   |              |                                                                                                                                                                                                     |                  | UWDR792L                           |  |
| 13d. Name (Typed or Printed):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 | 13e. Date (dd/mm/yyyy):                                                                                                                           |              | 14d. Name (Typed or Printed):                                                                                                                                                                                                                                                         |                  | 14e. Date (dd/mm/yyyy):            |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                                                                                                                                                   |              | Tom Knaresboro                                                                                                                                                                                                                                                                        |                  | 28 Apr 2015                        |  |
| User/Installer Responsibilities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                                                                                                                                                   |              |                                                                                                                                                                                                                                                                                       |                  |                                    |  |
| <p>It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.</p> <p>Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than 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.</p> <p>Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.</p> |                 |                                                                                                                                                   |              |                                                                                                                                                                                                                                                                                       |                  |                                    |  |



Discrepancies Noted:

- |                                        |                                          |                                                |
|----------------------------------------|------------------------------------------|------------------------------------------------|
| <input type="checkbox"/> OUTERSHELL    | <input type="checkbox"/> BALL JOINT      | <input type="checkbox"/> BELLOWS               |
| <input type="checkbox"/> OVERBOARD     | <input type="checkbox"/> BELL JOINT      | <input type="checkbox"/> HEAT FINS             |
| <input type="checkbox"/> BAFFLE        | <input type="checkbox"/> INLAY           | <input type="checkbox"/> STRAIGHT TUBE         |
| <input type="checkbox"/> END PLATE     | <input type="checkbox"/> OVERLAY         | <input type="checkbox"/> BRACKET               |
| <input type="checkbox"/> SHROUD RING   | <input type="checkbox"/> INLET EXTENSION | <input type="checkbox"/> BOLT FLANGE           |
| <input type="checkbox"/> BEADED END    | <input type="checkbox"/> RISER TUBE      | <input type="checkbox"/> TOP TUBE              |
| <input type="checkbox"/> TAB           | <input type="checkbox"/> FLANGE          | <input type="checkbox"/> CRACK WELD            |
| <input type="checkbox"/> SHAFT         | <input type="checkbox"/> TAILPIPE        | <input checked="" type="checkbox"/> SLIP JOINT |
| <input type="checkbox"/> BUTTERFLY     | <input type="checkbox"/> FLOW DIVIDER    | <input checked="" type="checkbox"/> ELBOW      |
| <input type="checkbox"/> CLEAN & INSP. | <input type="checkbox"/> BODY            | <input type="checkbox"/> SKIN                  |
| <input type="checkbox"/>               | <input type="checkbox"/>                 | <input type="checkbox"/>                       |

INSPECTOR'S INITIALS TK

Corrective Action: ITEMS REPLACED OR REPAIRED

- |                                        |                                          |                                        |
|----------------------------------------|------------------------------------------|----------------------------------------|
| <input type="checkbox"/> OUTERSHELL    | <input type="checkbox"/> BALL JOINT      | <input type="checkbox"/> BELLOWS       |
| <input type="checkbox"/> OVERBOARD     | <input type="checkbox"/> BELL JOINT      | <input type="checkbox"/> HEAT FINS     |
| <input type="checkbox"/> BAFFLE        | <input type="checkbox"/> INLAY           | <input type="checkbox"/> STRAIGHT TUBE |
| <input type="checkbox"/> END PLATE     | <input type="checkbox"/> OVERLAY         | <input type="checkbox"/> BRACKET       |
| <input type="checkbox"/> SHROUD RING   | <input type="checkbox"/> INLET EXTENSION | <input type="checkbox"/> BOLT FLANGE   |
| <input type="checkbox"/> BEADED END    | <input type="checkbox"/> RISER TUBE      | <input type="checkbox"/> TOP TUBE      |
| <input type="checkbox"/> TAB           | <input type="checkbox"/> FLANGE          | <input type="checkbox"/> CRACK WELD    |
| <input type="checkbox"/> SHAFT         | <input type="checkbox"/> TAILPIPE        | <input type="checkbox"/> SLIP JOINT    |
| <input type="checkbox"/> BUTTERFLY     | <input type="checkbox"/> FLOW DIVIDER    | <input type="checkbox"/> ELBOW         |
| <input type="checkbox"/> CLEAN & INSP. | <input type="checkbox"/> BODY            | <input type="checkbox"/> SKIN          |
| <input type="checkbox"/>               | <input type="checkbox"/>                 | <input type="checkbox"/>               |

INSPECTOR'S INITIALS TK

Material Type Approved Data

- |                                                       |                                                |
|-------------------------------------------------------|------------------------------------------------|
| <input checked="" type="checkbox"/> 347 SS FILLER ROD | <input checked="" type="checkbox"/> 43.13-1B   |
| <input checked="" type="checkbox"/> 321 SS            | <input type="checkbox"/> MANUFACTURER'S MANUAL |
| <input type="checkbox"/> 4130 CHROMALLY               | <input type="checkbox"/> AIR CARRIER'S MANUAL  |
| <input type="checkbox"/> 4130 ROD                     | <input type="checkbox"/>                       |
| <input type="checkbox"/> INCONEL                      | <input type="checkbox"/>                       |
| <input type="checkbox"/> INCONEL ROD                  | <input type="checkbox"/>                       |
| <input type="checkbox"/>                              | <input type="checkbox"/>                       |
| <input type="checkbox"/>                              | <input type="checkbox"/>                       |

AEROSPACE WELDING MINNEAPOLIS, INC.

1045 Gemini Road, Eagan, MN 55121 651-379-9888

FAA Repair Station #UWDR792L

NAME: PATTON AVIATION, LLC S/N: N/A Job: 81033

ADDRESS: 2491 OVERLOOK DR CITY: BILLINGS MT 59105  
Make & Model: MOONEY M20M TLS Part Number: 40B19825  
Unit Description: SEE BELOW  
Registration No.:  
Preliminary Date: 4/17/2015  
Hidden Damage Date: 4/24/2015  
In Progress Date: 4/27/2015  
Final Date: 4/28/2015

CUSTOMER SERVICES REQUESTED

DESCRIPTION: MOONEY M20M TLS BRAVO - CYL # 5 RISER

- |                                                   |                                                 |                          |
|---------------------------------------------------|-------------------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> REPAIRS       | <input checked="" type="checkbox"/> BOLT FLANGE | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> A.D. NOTES    | <input type="checkbox"/> DIE PENETRANT          | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> PRESSURE TEST | <input type="checkbox"/> DEMAGNETIZE            | <input type="checkbox"/> |

AUTHORIZED AND CONDITIONS AGREED TO AS STATED ABOVE

BY Thomas H. H. H. DATE 4/28/2015

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                                                                                                                                                                                                                                                                                |              |                                                                                                               |                  |                                       |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------|------------------|---------------------------------------|--|
| 1. Approving Civil Aviation Authority/Country<br>FAA/United States                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 | 2. <b>AUTHORIZED RELEASE CERTIFICATE</b><br>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG                                                                                                                                                                                        |              |                                                                                                               |                  | 3. Form Tracking Number:<br>163761    |  |
| 4. Organization Name and Address:<br><b>Aerospace Welding Minneapolis, Inc. 1045 Gemini Road Eagan MN 55121 (UWDR792L)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |                                                                                                                                                                                                                                                                                |              |                                                                                                               |                  |                                       |  |
| 6. Item:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7. Description: | 8. Part Number:                                                                                                                                                                                                                                                                | 9. Quantity: | 10. Serial Number:                                                                                            | 11. Status/Work: |                                       |  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | RISER           | 40B19825                                                                                                                                                                                                                                                                       | 1 each       | 163761                                                                                                        | OVERHAULED       |                                       |  |
| 12. Remarks:<br>REF: WORK ORDER #163761.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |                                                                                                                                                                                                                                                                                |              |                                                                                                               |                  |                                       |  |
| <p>Aerospace Welding Minneapolis, Inc. certifies that the work specified in block 12/13 was carried out in accordance with EASA part 145 and in respect to that work, the component is considered ready for release to service under EASA part 145 Approval Number:EASA. 1456155. This form covers certification of the part identified in block 7/8 only and any additional EAS40B1982SA requirements are the responsibility of the installer.</p>                                                                                                                                                                                                                                                                                                                                                                                                                           |                 |                                                                                                                                                                                                                                                                                |              |                                                                                                               |                  |                                       |  |
| 13a. Certifies the items identified above were manufactured in conformity to:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 | 14a. <input checked="" type="checkbox"/> 14 CFR 439 Return to Service <input checked="" type="checkbox"/> Other regulation specified in Block 12                                                                                                                               |              | 14b. Authorized Signature:  |                  |                                       |  |
| <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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 | 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. |              | 14c. Approval/Certificate No.:<br><b>UWDR792L</b>                                                             |                  |                                       |  |
| 13b. Authorized Signature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 | 13c. Approval/Authorization No.                                                                                                                                                                                                                                                |              | 14d. Name (Typed or Printed):<br>Tom Knaresboro                                                               |                  | 14e. Date (dd/mm/yyy):<br>28 Apr 2015 |  |
| 13d. Name (Typed or Printed)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 | 13e. Date (dd/mm/yyy)                                                                                                                                                                                                                                                          |              |                                                                                                               |                  |                                       |  |
| User/Installer Responsibilities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                                                                                                                                                                                                                                                                                |              |                                                                                                               |                  |                                       |  |
| <p>It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.</p> <p>Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than 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.</p> <p>Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.</p> |                 |                                                                                                                                                                                                                                                                                |              |                                                                                                               |                  |                                       |  |

## Discrepancies Noted:

- |                                        |                                              |                                                   |
|----------------------------------------|----------------------------------------------|---------------------------------------------------|
| <input type="checkbox"/> OUTERSHELL    | <input type="checkbox"/> BALL JOINT          | <input type="checkbox"/> BELLOW                   |
| <input type="checkbox"/> OVERBOARD     | <input type="checkbox"/> BELL JOINT          | <input type="checkbox"/> HEAT FINS                |
| <input type="checkbox"/> BAFFLE        | <input type="checkbox"/> INLAY               | <input checked="" type="checkbox"/> STRAIGHT TUBE |
| <input type="checkbox"/> END PLATE     | <input type="checkbox"/> OVERLAY             | <input type="checkbox"/> BRACKET                  |
| <input type="checkbox"/> SHROUD RING   | <input type="checkbox"/> INLET EXTENSION     | <input type="checkbox"/> BOLT FLANGE              |
| <input type="checkbox"/> BEADED END    | <input type="checkbox"/> RISER TUBE          | <input type="checkbox"/> TOP TUBE                 |
| <input type="checkbox"/> TAB           | <input checked="" type="checkbox"/> FLANGE   | <input type="checkbox"/> CRACK WELD               |
| <input type="checkbox"/> SHAFT         | <input checked="" type="checkbox"/> TAILPIPE | <input checked="" type="checkbox"/> SLIP JOINT    |
| <input type="checkbox"/> BUTTERFLY     | <input type="checkbox"/> FLOW DIVIDER        | <input checked="" type="checkbox"/> ELBOW         |
| <input type="checkbox"/> CLEAN & INSP. | <input type="checkbox"/> BODY                | <input type="checkbox"/> SKIN                     |
| <input type="checkbox"/>               | <input type="checkbox"/>                     | <input type="checkbox"/>                          |

INSPECTOR'S INITIALS

11K

## Corrective Action: ITEMS REPLACED OR REPAIRED

- |                                        |                                          |                                        |
|----------------------------------------|------------------------------------------|----------------------------------------|
| <input type="checkbox"/> OUTERSHELL    | <input type="checkbox"/> BALL JOINT      | <input type="checkbox"/> BELLOW        |
| <input type="checkbox"/> OVERBOARD     | <input type="checkbox"/> BELL JOINT      | <input type="checkbox"/> HEAT FINS     |
| <input type="checkbox"/> BAFFLE        | <input type="checkbox"/> INLAY           | <input type="checkbox"/> STRAIGHT TUBE |
| <input type="checkbox"/> END PLATE     | <input type="checkbox"/> OVERLAY         | <input type="checkbox"/> BRACKET       |
| <input type="checkbox"/> SHROUD RING   | <input type="checkbox"/> INLET EXTENSION | <input type="checkbox"/> BOLT FLANGE   |
| <input type="checkbox"/> BEADED END    | <input type="checkbox"/> RISER TUBE      | <input type="checkbox"/> TOP TUBE      |
| <input type="checkbox"/> TAB           | <input type="checkbox"/> FLANGE          | <input type="checkbox"/> CRACK WELD    |
| <input type="checkbox"/> SHAFT         | <input type="checkbox"/> TAILPIPE        | <input type="checkbox"/> SLIP JOINT    |
| <input type="checkbox"/> BUTTERFLY     | <input type="checkbox"/> FLOW DIVIDER    | <input type="checkbox"/> ELBOW         |
| <input type="checkbox"/> CLEAN & INSP. | <input type="checkbox"/> BODY            | <input type="checkbox"/> SKIN          |
| <input type="checkbox"/>               | <input type="checkbox"/>                 | <input type="checkbox"/>               |

INSPECTOR'S INITIALS

11K

## Material Type

## Approved Data

- |                                                       |                                                |
|-------------------------------------------------------|------------------------------------------------|
| <input checked="" type="checkbox"/> 347 SS FILLER ROD | <input checked="" type="checkbox"/> 43.13-1B   |
| <input checked="" type="checkbox"/> 321 SS            | <input type="checkbox"/> MANUFACTURER'S MANUAL |
| <input type="checkbox"/> 4130 CHROMALLY               | <input type="checkbox"/> AIR CARRIER'S MANUAL  |
| <input type="checkbox"/> 4130 ROD                     | <input type="checkbox"/>                       |
| <input type="checkbox"/> INCONEL                      | <input type="checkbox"/>                       |
| <input type="checkbox"/> INCONEL ROD                  | <input type="checkbox"/>                       |
| <input type="checkbox"/>                              | <input type="checkbox"/>                       |
| <input type="checkbox"/>                              | <input type="checkbox"/>                       |

## AEROSPACE WELDING MINNEAPOLIS, INC.

1045 Gemini Road, Eagan, MN 55121 651-379-9888

163914

FAA Repair Station #UWDR792L

Form 100

|                                 |                           |                                  |            |
|---------------------------------|---------------------------|----------------------------------|------------|
| NAME<br>PATTON AVIATION, LLC    | SINAWI                    | N/A                              | Job: 81033 |
| ADDRESS<br>2491 OVERLOOK DR     | CITY<br>BILLINGS MT 59105 | Preliminary Date 4/28/2015 11K   |            |
| Make & Model<br>MOONEY M20M TLS | Part Number<br>630135-501 | Hidden Damage Date 4/28/2015 11K |            |
| Unit Description<br>SEE BELOW   |                           | In Progress Date 4/28/2015 11K   |            |
| Registration No.                |                           | Final Date 4/28/2015 11K         |            |

## CUSTOMER SERVICES REQUESTED

DESCRIPTION: MOONEY M20M TLS BRAVO - TAILPIPE &amp; BYPASS ASSY

|                                                   |                                            |                          |                          |
|---------------------------------------------------|--------------------------------------------|--------------------------|--------------------------|
| <input checked="" type="checkbox"/> REPAIRS       | <input checked="" type="checkbox"/> FLANGE | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> A.D. NOTES    | <input type="checkbox"/> DIE PENETRANT     | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> PRESSURE TEST | <input type="checkbox"/> DEMAGNETIZE       | <input type="checkbox"/> | <input type="checkbox"/> |
|                                                   |                                            | <input type="checkbox"/> | <input type="checkbox"/> |

AUTHORIZED AND CONDITIONS AGREED TO AS STATED ABOVE

BY

DATE

4/28/2015

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                  |                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| 1. Approving Civil Aviation Authority/Country<br>FAA/United States                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 | 2. <b>AUTHORIZED RELEASE CERTIFICATE</b><br>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG |                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3. Form Tracking Number:<br>163914                                                                               |                                                 |
| 4. Organization Name and Address:<br><b>Aerospace Welding Minneapolis, Inc. 1045 Gemini Road Eagan MN 55121 (UWDR792L)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                  |                                                 |
| 6. Item:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7. Description: | 8. Part Number:                                                                         | 9. Quantity:                                                                                                                                                                                                                                                                                                                                                                                                                        | 10. Serial Number:                                                                                               | 5. Work Order/Contract/Invoice Number<br>163914 |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | TAILPIPE ASSY   | 630135-501                                                                              | 1 each                                                                                                                                                                                                                                                                                                                                                                                                                              | 163914                                                                                                           | 11. Status/Work:<br>OVERHAULED                  |
| 12. Remarks:<br>REF: WORK ORDER #163914.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                  |                                                 |
| <p>Aerospace Welding Minneapolis, Inc. certifies that the work specified in block 12/13 was carried out in accordance with EASA part 145 and in respect to that work, the component is considered ready for release to service under EASA part 145 Approval Number: EASA. 1456155. This form covers certification of the part identified in block 7/8 only and any additional EAS30135-501A requirements are the responsibility of the installer.</p>                                                                                                                                                                                                                                                                                                                                                                                                                         |                 |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                  |                                                 |
| 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 checked="" type="checkbox"/> 14 CFR 43.9 Return 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 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> |                                                 |
| 13d. Name (Typed or Printed):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 | 13e. Date (dd/mm/yyyy):                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                     | 14c. Approval/Certificate No.:<br>UWDR792L                                                                       |                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                     | 14d. Name (Typed or Printed):<br>Tom Knaresboro                                                                  |                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                     | 14e. Date (dd/mm/yyyy):<br>28 Apr 2015                                                                           |                                                 |
| <b>User/Installer Responsibilities</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                  |                                                 |
| <p>It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.</p> <p>Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than 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.</p> <p>Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.</p> |                 |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                  |                                                 |

Discrepancies Noted:

- ☐ OUTERSHELL ☐ BALL JOINT ☐ BELLOWS  
☐ OVERBOARD ☐ BELL JOINT ☐ HEAT FINS  
☐ BAFFLE ☐ INLAY ☐ STRAIGHT TUBE  
☐ END PLATE ☐ OVERLAY ☐ BRACKET  
☐ SHROUD RING ☐ INLET EXTENSION ☐ BOLT FLANGE  
☐ BEADED END ☐ RISER TUBE ☒ TOP TUBE  
☐ TAB ☒ FLANGE ☐ CRACK WELD  
☐ SHAFT ☐ TAILPIPE ☒ SLIP JOINT  
☐ BUTTERFLY ☐ FLOW DIVIDER ☐ ELBOW  
☐ CLEAN & INSP. ☐ BODY ☐ SKIN  
☐ ☐ ☐

INSPECTOR'S INITIALS

1K

Corrective Action: ITEMS REPLACED OR REPAIRED

- ☐ OUTERSHELL ☐ BALL JOINT ☐ BELLOWS  
☐ OVERBOARD ☐ BELL JOINT ☐ HEAT FINS  
☐ BAFFLE ☐ INLAY ☐ STRAIGHT TUBE  
☐ END PLATE ☐ OVERLAY ☐ BRACKET  
☐ SHROUD RING ☐ INLET EXTENSION ☐ BOLT FLANGE  
☐ BEADED END ☐ RISER TUBE ☐ TOP TUBE  
☐ TAB ☐ FLANGE ☐ CRACK WELD  
☐ SHAFT ☐ TAILPIPE ☐ SLIP JOINT  
☐ BUTTERFLY ☐ FLOW DIVIDER ☐ ELBOW  
☐ CLEAN & INSP. ☐ BODY ☐ SKIN  
☐ ☐ ☐

INSPECTOR'S INITIALS

1K

Material Type

Approved Data

- ☒ 347 SS FILLER ROD ☒ 43.13-1B  
☒ 321 SS ☐ MANUFACTURER'S MANUAL  
☐ 4130 CHROMALLY ☐ AIR CARRIER'S MANUAL  
☐ 4130 ROD ☐ INCONEL  
☐ INCONEL ROD ☐ ☐ ☐

AEROSPACE WELDING MINNEAPOLIS, INC.

1045 Gemini Road, Eagan, MN 55121 651-379-9888

FAA Repair Station #UWDR792L

NAME  
PATTON AVIATION, LLC

SINAMI

N/A

Job:

81033

ADDRESS  
2491 OVERLOOK DR

CITY

BILLINGS MT 59105

Make & Model  
MOONEY M20M TLS

Part Number  
40B19824

Unit Description  
SEE BELOW

Registration No.

Preliminary Date  
4/17/2015

Hidden Damage Date  
4/24/2015

In Progress Date  
4/27/2015

Final Date  
4/28/2015

1K

1K

1K

1K

CUSTOMER SERVICES REQUESTED

DESCRIPTION: MOONEY M20M TLS BRAVO - CYL # 4 RISER

- ☒ REPAIRS ☒ BOLT FLANGE ☐ ☐  
☒ A.D. NOTES ☐ DIE PENETRANT ☐ CORROSION PROTECT NEW TUBE  
☒ PRESSURE TEST ☐ DEMAGNETIZE ☐ PRIMER COAT

AUTHORIZED AND CONDITIONS AGREED TO AS STATED ABOVE

BY

*Handwritten Signature*

DATE 4/28/2015

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |                                                                                                               |                                    |                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------|------------------------------------|-------------------------------------------------|
| 1. Approving Civil Aviation Authority/Country<br>FAA/United States                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 | 2. <b>AUTHORIZED RELEASE CERTIFICATE</b><br>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG                                                                                                                                                                                                                                                                                                                                             |              |                                                                                                               | 3. Form Tracking Number:<br>163764 |                                                 |
| 4. Organization Name and Address:<br><b>Aerospace Welding Minneapolis, Inc. 1045 Gemini Road Eagan MN 55121 (UWDR792L)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |                                                                                                               |                                    |                                                 |
| 6. Item:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7. Description: | 8. Part Number:                                                                                                                                                                                                                                                                                                                                                                                                                     | 9. Quantity: | 10. Serial Number:                                                                                            | 11. Status/Work:                   | 5. Work Order/Contract/Invoice Number<br>163764 |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | RISER           | 40B19824                                                                                                                                                                                                                                                                                                                                                                                                                            | 1 each       | 163764                                                                                                        | OVERHAULED                         |                                                 |
| 12. Remarks:<br>REF: WORK ORDER #163764.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |                                                                                                               |                                    |                                                 |
| <p>Aerospace Welding Minneapolis, Inc. certifies that the work specified in block 12/13 was carried out in accordance with EASA part 145 and in respect to that work, the component is considered ready for release to service under EASA part 145 Approval Number: EASA. 1456155. This form covers certification of the part identified in block 7/8 only and any additional EAS40B19824A requirements are the responsibility of the installer.</p>                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |                                                                                                               |                                    |                                                 |
| 13a. Certifies the items identified above were manufactured in conformity to:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 | 14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return 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 Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service. |              |                                                                                                               |                                    |                                                 |
| 13b. Authorized Signature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 | 13c. Approval/Authorization No.                                                                                                                                                                                                                                                                                                                                                                                                     |              | 14b. Authorized Signature:  |                                    |                                                 |
| 13d. Name (Typed or Printed):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 | 13e. Date (dd/mm/yyyy):                                                                                                                                                                                                                                                                                                                                                                                                             |              | 14c. Approval/Certificate No.: UWDR792L                                                                       |                                    |                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                     |              | 14d. Name (Typed or Printed): Tom Knaresboro                                                                  |                                    |                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                     |              | 14e. Date (dd/mm/yyyy): 28 Apr 2015                                                                           |                                    |                                                 |
| User/Installer Responsibilities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |                                                                                                               |                                    |                                                 |
| <p>It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.</p> <p>Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than 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.</p> <p>Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.</p> |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |                                                                                                               |                                    |                                                 |



## Discrepancies Noted:

- |                                                 |                                          |                                                   |
|-------------------------------------------------|------------------------------------------|---------------------------------------------------|
| <input type="checkbox"/> OUTERSHELL             | <input type="checkbox"/> BALL JOINT      | <input type="checkbox"/> BELLOWS                  |
| <input type="checkbox"/> OVERBOARD              | <input type="checkbox"/> BELL JOINT      | <input type="checkbox"/> HEAT FINS                |
| <input type="checkbox"/> BAFFLE                 | <input type="checkbox"/> INLAY           | <input checked="" type="checkbox"/> STRAIGHT TUBE |
| <input type="checkbox"/> END PLATE              | <input type="checkbox"/> OVERLAY         | <input type="checkbox"/> BRACKET                  |
| <input checked="" type="checkbox"/> SHROUD RING | <input type="checkbox"/> INLET EXTENSION | <input type="checkbox"/> BOLT FLANGE              |
| <input type="checkbox"/> BEADED END             | <input type="checkbox"/> RISER TUBE      | <input type="checkbox"/> TOP TUBE                 |
| <input type="checkbox"/> TAB                    | <input type="checkbox"/> FLANGE          | <input type="checkbox"/> CRACK WELD               |
| <input type="checkbox"/> SHAFT                  | <input type="checkbox"/> TAILPIPE        | <input checked="" type="checkbox"/> SLIP JOINT    |
| <input type="checkbox"/> BUTTERFLY              | <input type="checkbox"/> FLOW DIVIDER    | <input checked="" type="checkbox"/> ELBOW         |
| <input type="checkbox"/> CLEAN & INSP.          | <input type="checkbox"/> BODY            | <input type="checkbox"/> SKIN                     |
| <input type="checkbox"/>                        | <input type="checkbox"/>                 | <input type="checkbox"/>                          |

INSPECTOR'S INITIALS TK

## Corrective Action: ITEMS REPLACED OR REPAIRED

- |                                                 |                                          |                                        |
|-------------------------------------------------|------------------------------------------|----------------------------------------|
| <input type="checkbox"/> OUTERSHELL             | <input type="checkbox"/> BALL JOINT      | <input type="checkbox"/> BELLOWS       |
| <input type="checkbox"/> OVERBOARD              | <input type="checkbox"/> BELL JOINT      | <input type="checkbox"/> HEAT FINS     |
| <input type="checkbox"/> BAFFLE                 | <input type="checkbox"/> INLAY           | <input type="checkbox"/> STRAIGHT TUBE |
| <input type="checkbox"/> END PLATE              | <input type="checkbox"/> OVERLAY         | <input type="checkbox"/> BRACKET       |
| <input checked="" type="checkbox"/> SHROUD RING | <input type="checkbox"/> INLET EXTENSION | <input type="checkbox"/> BOLT FLANGE   |
| <input type="checkbox"/> BEADED END             | <input type="checkbox"/> RISER TUBE      | <input type="checkbox"/> TOP TUBE      |
| <input type="checkbox"/> TAB                    | <input type="checkbox"/> FLANGE          | <input type="checkbox"/> CRACK WELD    |
| <input type="checkbox"/> SHAFT                  | <input type="checkbox"/> TAILPIPE        | <input type="checkbox"/> SLIP JOINT    |
| <input type="checkbox"/> BUTTERFLY              | <input type="checkbox"/> FLOW DIVIDER    | <input type="checkbox"/> ELBOW         |
| <input type="checkbox"/> CLEAN & INSP.          | <input type="checkbox"/> BODY            | <input type="checkbox"/> SKIN          |
| <input type="checkbox"/>                        | <input type="checkbox"/>                 | <input type="checkbox"/>               |

INSPECTOR'S INITIALS TK

## Material Type

## Approved Data

- |                                                       |                                                |
|-------------------------------------------------------|------------------------------------------------|
| <input checked="" type="checkbox"/> 347 SS FILLER ROD | <input checked="" type="checkbox"/> 43.13-1B   |
| <input checked="" type="checkbox"/> 321 SS            | <input type="checkbox"/> MANUFACTURER'S MANUAL |
| <input type="checkbox"/> 4130 CHROMALLY               | <input type="checkbox"/> AIR CARRIER'S MANUAL  |
| <input type="checkbox"/> 4130 ROD                     | <input type="checkbox"/>                       |
| <input type="checkbox"/> INCONEL                      | <input type="checkbox"/>                       |
| <input type="checkbox"/> INCONEL ROD                  | <input type="checkbox"/>                       |
| <input type="checkbox"/>                              | <input type="checkbox"/>                       |
| <input type="checkbox"/>                              | <input type="checkbox"/>                       |

## AEROSPACE WELDING MINNEAPOLIS, INC.

1045 Gemini Road, Eagan, MN 55121 651-379-9888

FAA Repair Station #UWDR792L

Form 100

163762

|                                 |                           |                                 |            |
|---------------------------------|---------------------------|---------------------------------|------------|
| NAME<br>PATTON AVIATION, LLC    | S/N AWI                   | N/A                             | Job: 81033 |
| ADDRESS<br>2491 OVERLOOK DR     | CITY<br>BILLINGS MT 59105 | Preliminary Date<br>4/17/2015   |            |
| Make & Model<br>MOONEY M20M TLS | Part Number<br>40B21089   | Hidden Damage Date<br>4/24/2015 |            |
| Unit Description<br>SEE BELOW   |                           | In Progress Date<br>4/27/2015   |            |
| Registration No.                |                           | Final Date<br>4/28/2015         |            |

## CUSTOMER SERVICES REQUESTED

DESCRIPTION: MOONEY M20M TLS BRAVO - CROSSOVER &amp; CYL#2

- |                                                   |                                                |                                                     |
|---------------------------------------------------|------------------------------------------------|-----------------------------------------------------|
| <input checked="" type="checkbox"/> REPAIRS       | <input checked="" type="checkbox"/> SLIP JOINT | <input type="checkbox"/>                            |
| <input checked="" type="checkbox"/> A.D. NOTES    | <input type="checkbox"/> DIE PENETRANT         | <input type="checkbox"/> CORROSION PROTECT NEW TUBE |
| <input checked="" type="checkbox"/> PRESSURE TEST | <input type="checkbox"/> DEMAGNETIZE           | <input type="checkbox"/> PRIMER COAT                |

AUTHORIZED AND CONDITIONS AGREED TO AS STATED ABOVE

BY

DATE 4/28/2015

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |                                                                                                               |                                    |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------|------------------------------------|--|
| 1. Approving Civil Aviation Authority/Country<br>FAA/United States                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 | 2. <b>AUTHORIZED RELEASE CERTIFICATE</b><br>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG                                                                                                                                                                                                                                                                                                                                             |              |                                                                                                               | 3. Form Tracking Number:<br>163762 |  |
| 4. Organization Name and Address:<br><b>Aerospace Welding Minneapolis, Inc. 1045 Gemini Road Eagan MN 55121 (UWDR792L)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |                                                                                                               |                                    |  |
| 6. Item:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7. Description: | 8. Part Number:                                                                                                                                                                                                                                                                                                                                                                                                                     | 9. Quantity: | 10. Serial Number:                                                                                            | 11. Status/Work:                   |  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CROSSOVER       | 40B21089                                                                                                                                                                                                                                                                                                                                                                                                                            | 1 each       | 163762                                                                                                        | OVERHAULED                         |  |
| 12. Remarks:<br>REF: WORK ORDER #163762.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |                                                                                                               |                                    |  |
| <p>Aerospace Welding Minneapolis, Inc. certifies that the work specified in block 12/13 was carried out in accordance with EASA part 145 and in respect to that work, the component is considered ready for release to service under EASA part 145 Approval Number:EASA. 1456155. This form covers certification of the part identified in block 7/8 only and any additional EAS40B21089A requirements are the responsibility of the installer.</p>                                                                                                                                                                                                                                                                                                                                                                                                                           |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |                                                                                                               |                                    |  |
| 13a. Certifies the items identified above were manufactured in conformity to:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 | 14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return 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 Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service. |              |                                                                                                               |                                    |  |
| 13b. Authorized Signature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 | 13c. Approval/Authorization No.:                                                                                                                                                                                                                                                                                                                                                                                                    |              | 14b. Authorized Signature:  |                                    |  |
| 13d. Name (Typed or Printed):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 | 13e. Date (dd/mm/yyyy):                                                                                                                                                                                                                                                                                                                                                                                                             |              | 14c. Approval/Certificate No.: UWDR792L                                                                       |                                    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                     |              | 14d. Name (Typed or Printed): Tom Knaresboro                                                                  |                                    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                     |              | 14e. Date (dd/mm/yyyy): 28 Apr 2015                                                                           |                                    |  |
| User/Installer Responsibilities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |                                                                                                               |                                    |  |
| <p>It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.</p> <p>Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than 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.</p> <p>Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.</p> |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |                                                                                                               |                                    |  |

# AEROSPACE WELDING MINNEAPOLIS, INC.

1045 Gemini Road, Eagan, MN 55121 651-379-9888

163763

Form 100

FAA Repair Station #UWDR792L

|                                 |                           |                    |           |
|---------------------------------|---------------------------|--------------------|-----------|
| NAME<br>PATTON AVIATION, LLC    | SIN AWI                   | Job:               | 81033     |
| ADDRESS<br>2491 OVERLOOK DR     | CITY<br>BILLINGS MT 59105 | Preliminary Date   | 4/17/2015 |
| Make & Model<br>MOONEY M20M TLS | Part Number<br>LW12728    | Hidden Damage Date | 4/24/2015 |
| Unit Description<br>SEE BELOW   |                           | In Progress Date   | 4/27/2015 |
| Registration No.                |                           | Final Date         | 4/28/2015 |

## CUSTOMER SERVICES REQUESTED

DESCRIPTION: MOONEY M20M TLS BRAVO - ADAPTER CYL # 2 & 3

### Discrepancies Noted:

|                                        |                                                |                                                |
|----------------------------------------|------------------------------------------------|------------------------------------------------|
| <input type="checkbox"/> OUTERSHELL    | <input type="checkbox"/> BALL JOINT            | <input type="checkbox"/> BELLOWS               |
| <input type="checkbox"/> OVERBOARD     | <input type="checkbox"/> BELL JOINT            | <input type="checkbox"/> HEAT FINS             |
| <input type="checkbox"/> BAFFLE        | <input type="checkbox"/> INLAY                 | <input type="checkbox"/> STRAIGHT TUBE         |
| <input type="checkbox"/> END PLATE     | <input type="checkbox"/> OVERLAY               | <input type="checkbox"/> BRACKET               |
| <input type="checkbox"/> SHROUD RING   | <input type="checkbox"/> INLET EXTENSION       | <input type="checkbox"/> BOLT FLANGE           |
| <input type="checkbox"/> BEADED END    | <input checked="" type="checkbox"/> RISER TUBE | <input type="checkbox"/> TOP TUBE              |
| <input type="checkbox"/> TAB           | <input type="checkbox"/> FLANGE                | <input type="checkbox"/> CRACK WELD            |
| <input type="checkbox"/> SHAFT         | <input type="checkbox"/> TAILPIPE              | <input checked="" type="checkbox"/> SLIP JOINT |
| <input type="checkbox"/> BUTTERFLY     | <input type="checkbox"/> FLOW DIVIDER          | <input type="checkbox"/> ELBOW                 |
| <input type="checkbox"/> CLEAN & INSP. | <input type="checkbox"/> BODY                  | <input type="checkbox"/> SKIN                  |

INSPECTOR'S INITIALS

11K

### Corrective Action: ITEMS REPLACED OR REPAIRED

|                                        |                                          |                                        |
|----------------------------------------|------------------------------------------|----------------------------------------|
| <input type="checkbox"/> OUTERSHELL    | <input type="checkbox"/> BALL JOINT      | <input type="checkbox"/> BELLOWS       |
| <input type="checkbox"/> OVERBOARD     | <input type="checkbox"/> BELL JOINT      | <input type="checkbox"/> HEAT FINS     |
| <input type="checkbox"/> BAFFLE        | <input type="checkbox"/> INLAY           | <input type="checkbox"/> STRAIGHT TUBE |
| <input type="checkbox"/> END PLATE     | <input type="checkbox"/> OVERLAY         | <input type="checkbox"/> BRACKET       |
| <input type="checkbox"/> SHROUD RING   | <input type="checkbox"/> INLET EXTENSION | <input type="checkbox"/> BOLT FLANGE   |
| <input type="checkbox"/> BEADED END    | <input type="checkbox"/> RISER TUBE      | <input type="checkbox"/> TOP TUBE      |
| <input type="checkbox"/> TAB           | <input type="checkbox"/> FLANGE          | <input type="checkbox"/> CRACK WELD    |
| <input type="checkbox"/> SHAFT         | <input type="checkbox"/> TAILPIPE        | <input type="checkbox"/> SLIP JOINT    |
| <input type="checkbox"/> BUTTERFLY     | <input type="checkbox"/> FLOW DIVIDER    | <input type="checkbox"/> ELBOW         |
| <input type="checkbox"/> CLEAN & INSP. | <input type="checkbox"/> BODY            | <input type="checkbox"/> SKIN          |

INSPECTOR'S INITIALS

11K

### Material Type

### Approved Data

|                                                       |                                                |
|-------------------------------------------------------|------------------------------------------------|
| <input checked="" type="checkbox"/> 347 SS FILLER ROD | <input checked="" type="checkbox"/> 43.13-1B   |
| <input checked="" type="checkbox"/> 321 SS            | <input type="checkbox"/> MANUFACTURER'S MANUAL |
| <input type="checkbox"/> 4130 CHROMALLY               | <input type="checkbox"/> AIR CARRIER'S MANUAL  |
| <input type="checkbox"/> 4130 ROD                     |                                                |
| <input type="checkbox"/> INCONEL                      |                                                |
| <input type="checkbox"/> INCONEL ROD                  |                                                |

### REPAIRS

|                                                     |                          |
|-----------------------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> BOLT FLANGE     | <input type="checkbox"/> |
| <input type="checkbox"/> DIE PENETRANT              | <input type="checkbox"/> |
| <input type="checkbox"/> CORROSION PROTECT NEW TUBE | <input type="checkbox"/> |
| <input type="checkbox"/> PRESSURE TEST              | <input type="checkbox"/> |
| <input type="checkbox"/> DEMAGNETIZE                | <input type="checkbox"/> |
| <input type="checkbox"/> PRIMER COAT                | <input type="checkbox"/> |

AUTHORIZED AND CONDITIONS AGREED TO AS STATED ABOVE

BY

*[Signature]*

DATE 4/28/2015

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                                                                                                                                                   |              |                                                                                                                                                                                 |           |                                            |                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------|-------------------------------------------------|
| 1. Approving Civil Aviation Authority/Country<br>FAA/United States                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 | 2. <b>AUTHORIZED RELEASE CERTIFICATE</b><br>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG                                                           |              |                                                                                                                                                                                 |           | 3. Form Tracking Number:<br>163763         |                                                 |
| 4. Organization Name and Address:<br><b>Aerospace Welding Minneapolis, Inc. 1045 Gemini Road Eagan MN 55121 (UWDR792L)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |                                                                                                                                                   |              |                                                                                                                                                                                 |           |                                            |                                                 |
| 6. Item:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7. Description: | 8.                                                                                                                                                | Part Number: | 9.                                                                                                                                                                              | Quantity: | 10. Serial Number:                         | 5. Work Order/Contract/Invoice Number<br>163763 |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ADAPTER #2 & #3 |                                                                                                                                                   | LW12728      |                                                                                                                                                                                 | 1 each    | 163763                                     | 11. Status/Work:<br>OVERHAULED                  |
| 12. Remarks:<br>REF: WORK ORDER #163763.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |                                                                                                                                                   |              |                                                                                                                                                                                 |           |                                            |                                                 |
| <p>Aerospace Welding Minneapolis, Inc. certifies that the work specified in block 12/13 was carried out in accordance with EASA part 145 and in respect to that work, the component is considered ready for release to service under EASA part 145 Approval Number:EASA. 1456155. This form covers certification of the part identified in block 7/8 only and any additional EASLW12728A requirements are the responsibility of the installer.</p>                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |                                                                                                                                                   |              |                                                                                                                                                                                 |           |                                            |                                                 |
| 13a. Certifies the items identified above were manufactured in conformity to:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 | 14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input checked="" type="checkbox"/> Other regulation specified in Block 12 |              | <p><input type="checkbox"/> Approved design data and are in a condition for safe operation.</p> <p><input type="checkbox"/> Non-approved design data specified in Block 12.</p> |           |                                            |                                                 |
| 13b. Authorized Signature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 | 13c. Approval/Authorization No.                                                                                                                   |              | 14b. Authorized Signature:                                                                                                                                                      |           | 14c. Approval/Certificate No.:<br>UWDR792L |                                                 |
| 13d. Name (Typed or Printed):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 | 13e. Date (dd/mm/yyyy):                                                                                                                           |              | 14d. Name (Typed or Printed):<br>Tom Knaresboro                                                                                                                                 |           | 14e. Date (dd/mm/yyyy):<br>28 Apr 2015     |                                                 |
| <b>User/Installer Responsibilities</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |                                                                                                                                                   |              |                                                                                                                                                                                 |           |                                            |                                                 |
| <p>It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.</p> <p>Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than 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.</p> <p>Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.</p> |                 |                                                                                                                                                   |              |                                                                                                                                                                                 |           |                                            |                                                 |

Discrepancies Noted:

- |                                        |                                          |                                                |
|----------------------------------------|------------------------------------------|------------------------------------------------|
| <input type="checkbox"/> OUTERSHELL    | <input type="checkbox"/> BALL JOINT      | <input type="checkbox"/> BELLOWS               |
| <input type="checkbox"/> OVERBOARD     | <input type="checkbox"/> BELL JOINT      | <input type="checkbox"/> HEAT FINS             |
| <input type="checkbox"/> BAFFLE        | <input type="checkbox"/> INLAY           | <input type="checkbox"/> STRAIGHT TUBE         |
| <input type="checkbox"/> END PLATE     | <input type="checkbox"/> OVERLAY         | <input type="checkbox"/> BRACKET               |
| <input type="checkbox"/> SHROUD RING   | <input type="checkbox"/> INLET EXTENSION | <input type="checkbox"/> BOLT FLANGE           |
| <input type="checkbox"/> BEADED END    | <input type="checkbox"/> RISER TUBE      | <input type="checkbox"/> TOP TUBE              |
| <input type="checkbox"/> TAB           | <input type="checkbox"/> FLANGE          | <input type="checkbox"/> CRACK WELD            |
| <input type="checkbox"/> SHAFT         | <input type="checkbox"/> TAILPIPE        | <input checked="" type="checkbox"/> SLIP JOINT |
| <input type="checkbox"/> BUTTERFLY     | <input type="checkbox"/> FLOW DIVIDER    | <input type="checkbox"/> ELBOW                 |
| <input type="checkbox"/> CLEAN & INSP. | <input type="checkbox"/> BODY            | <input type="checkbox"/> SKIN                  |
| <input type="checkbox"/>               | <input type="checkbox"/>                 | <input type="checkbox"/>                       |

INSPECTOR'S INITIALS TK

Corrective Action: ITEMS REPLACED OR REPAIRED

- |                                        |                                          |
|----------------------------------------|------------------------------------------|
| <input type="checkbox"/> <b>REPAIR</b> | <input type="checkbox"/> <b>REPAIR</b>   |
| <input type="checkbox"/> OUTERSHELL    | <input type="checkbox"/> BALL JOINT      |
| <input type="checkbox"/> OVERBOARD     | <input type="checkbox"/> BELL JOINT      |
| <input type="checkbox"/> BAFFLE        | <input type="checkbox"/> INLAY           |
| <input type="checkbox"/> END PLATE     | <input type="checkbox"/> OVERLAY         |
| <input type="checkbox"/> SHROUD RING   | <input type="checkbox"/> INLET EXTENSION |
| <input type="checkbox"/> BEADED END    | <input type="checkbox"/> RISER TUBE      |
| <input type="checkbox"/> TAB           | <input type="checkbox"/> FLANGE          |
| <input type="checkbox"/> SHAFT         | <input type="checkbox"/> TAILPIPE        |
| <input type="checkbox"/> BUTTERFLY     | <input type="checkbox"/> FLOW DIVIDER    |
| <input type="checkbox"/> CLEAN & INSP. | <input type="checkbox"/> BODY            |
| <input type="checkbox"/>               | <input type="checkbox"/>                 |
| <input type="checkbox"/>               | <input type="checkbox"/>                 |

INSPECTOR'S INITIALS TK

Material Type

Approved Data

- |                                                       |                                                |
|-------------------------------------------------------|------------------------------------------------|
| <input checked="" type="checkbox"/> 347 SS FILLER ROD | <input checked="" type="checkbox"/> 43.13-1B   |
| <input checked="" type="checkbox"/> 321 SS            | <input type="checkbox"/> MANUFACTURER'S MANUAL |
| <input type="checkbox"/> 4130 CHROMALLY               | <input type="checkbox"/> AIR CARRIER'S MANUAL  |
| <input type="checkbox"/> 4130 ROD                     | <input type="checkbox"/>                       |
| <input type="checkbox"/> INCONEL                      | <input type="checkbox"/>                       |
| <input type="checkbox"/> INCONEL ROD                  | <input type="checkbox"/>                       |
| <input type="checkbox"/>                              | <input type="checkbox"/>                       |
| <input type="checkbox"/>                              | <input type="checkbox"/>                       |

AEROSPACE WELDING MINNEAPOLIS, INC.

1045 Gemini Road, Eagan, MN 55121 651-379-9888

FAA Repair Station #UWDR792L

163913

Form 100

|                                 |                           |                                 |
|---------------------------------|---------------------------|---------------------------------|
| NAME<br>PATTON AVIATION, LLC    | SIN AWI                   | Job: 81033                      |
| ADDRESS<br>2491 OVERLOOK DR     | CITY<br>BILLINGS MT 59105 |                                 |
| Make & Model<br>MOONEY M20M TLS | Part Number<br>40B19823   | Preliminary Date<br>4/28/2015   |
| Unit Description<br>SEE BELOW   |                           | Hidden Damage Date<br>4/28/2015 |
| Registration No.                |                           | In Progress Date<br>4/28/2015   |
|                                 |                           | Final Date<br>4/28/2015         |

CUSTOMER SERVICES REQUESTED

DESCRIPTION: MOONEY M20M TLS BRAVO - CYL # 6 RISER

- |                                                   |                                                 |                          |
|---------------------------------------------------|-------------------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> REPAIRS       | <input checked="" type="checkbox"/> BOLT FLANGE | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> A.D. NOTES    | <input type="checkbox"/> DIE PENETRANT          | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> PRESSURE TEST | <input type="checkbox"/> DEMAGNETIZE            | <input type="checkbox"/> |
|                                                   | <input type="checkbox"/> PRIMER COAT            | <input type="checkbox"/> |

AUTHORIZED AND CONDITIONS AGREED TO AS STATED ABOVE

BY

*Handwritten Signature*

DATE 4/28/2015

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                                                                                                                                                   |              |                                                                                                                  |           |                                        |                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------|-------------------------------------------------|
| 1. Approving Civil Aviation Authority/Country<br>FAA/United States                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 | 2. <b>AUTHORIZED RELEASE CERTIFICATE</b><br>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG                                                           |              |                                                                                                                  |           | 3. Form Tracking Number:<br>163913     |                                                 |
| 4. Organization Name and Address:<br><b>Aerospace Welding Minneapolis, Inc. 1045 Gemini Road Eagan MN 55121 (UWDR792L)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |                                                                                                                                                   |              |                                                                                                                  |           |                                        |                                                 |
| 6. Item:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7. Description: | 8.                                                                                                                                                | Part Number: | 9.                                                                                                               | Quantity: | 10. Serial Number:                     | 5. Work Order/Contract/Invoice Number<br>163913 |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | RISER           |                                                                                                                                                   | 40B19823     |                                                                                                                  | 1 each    | 163913                                 | 11. Status/Work:<br>REPAIRED                    |
| 12. Remarks:<br>REF: WORK ORDER #163913.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |                                                                                                                                                   |              |                                                                                                                  |           |                                        |                                                 |
| <p>Aerospace Welding Minneapolis, Inc. certifies that the work specified in block 12/13 was carried out in accordance with EASA part 145 and in respect to that work, the component is considered ready for release to service under EASA part 145 Approval Number: EASA. 1456155. This form covers certification of the part identified in block 7/8 only and any additional EASA 40B19823A requirements are the responsibility of the installer.</p>                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |                                                                                                                                                   |              |                                                                                                                  |           |                                        |                                                 |
| 13a. Certifies the items identified above were manufactured in conformity to:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 | 14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input checked="" type="checkbox"/> Other regulation specified in Block 12 |              | 14b. Authorized Signature:<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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 | 13b. Approval/Authorization No.:                                                                                                                  |              | 14c. Approval/Certificate No.:<br>UWDR792L                                                                       |           |                                        |                                                 |
| 13d. Name (Typed or Printed):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 | 13e. Date (dd/mm/yyyy):                                                                                                                           |              | 14d. Name (Typed or Printed):<br>Tom Knaresboro                                                                  |           | 14e. Date (dd/mm/yyyy):<br>28 Apr 2015 |                                                 |
| User/Installer Responsibilities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                                                                                                                                                   |              |                                                                                                                  |           |                                        |                                                 |
| <p>It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.</p> <p>Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than 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.</p> <p>Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.</p> |                 |                                                                                                                                                   |              |                                                                                                                  |           |                                        |                                                 |



MAINTENANCE RELEASES  
1/5 Form 8/30-3

N 3695 M20M

SN 27-0093



|                                                                                                                                                                                                                                                                                                                                                                                                                         |                          |                                                                                                                                                                                                                                                                                |                          |                                                        |                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------------------------------------|--------------------------------------|
| 1. Approving National Aviation Authority/Country:<br>FAA/UNITED STATES                                                                                                                                                                                                                                                                                                                                                  |                          | 2.                                                                                                                                                                                                                                                                             |                          | 3. System Tracking Ref. No.<br>RMA 56187766            |                                      |
| 4. Organization: GARMIN International 1200 E 151st Olathe, KS 66062                                                                                                                                                                                                                                                                                                                                                     |                          | Certificate No. G6XRS82Y                                                                                                                                                                                                                                                       |                          | 5. Work Order Contract/Invoice Number:<br>RMA 56187766 |                                      |
| 6. Item:<br>1.                                                                                                                                                                                                                                                                                                                                                                                                          | 7. Description:<br>GDL69 | 8. Part Number:<br>011-00986-00                                                                                                                                                                                                                                                | 9. Eligibility: *<br>N/A | 10. Quantity:<br>1                                     | 11. Serial/Batch Number:<br>47705326 |
| 12. Status/Work:<br>REPAIRED                                                                                                                                                                                                                                                                                                                                                                                            |                          |                                                                                                                                                                                                                                                                                |                          |                                                        |                                      |
| 13. REMARKS: Confirmed the return issue. Replaced main board to correct return issue. Unit passes all tests and is operating within normal limits.                                                                                                                                                                                                                                                                      |                          |                                                                                                                                                                                                                                                                                |                          |                                                        |                                      |
| This unit complies with Service Bulletins No. 0538, 0544, 0613, 0702, 0702A, and 0852. It is the responsibility of the Installer to verify that the installation complies with the previous listed Service Bulletins. If this unit is part of a dual unit installation Garmin recommends that both units have the same software levels. It is the responsibility of the installer to assess installation compatibility. |                          |                                                                                                                                                                                                                                                                                |                          |                                                        |                                      |
| Operating software for this unit must be reloaded using the approved aircraft system software once the unit is reinstalled in the aircraft in order to complete the return to service process. Correct loading of this software can be verified by referring to the appropriate avionics/line maintenance manual.                                                                                                       |                          |                                                                                                                                                                                                                                                                                |                          |                                                        |                                      |
| This "Certifies that the work specified in block 12/13 was carried out in accordance with EASA Part-145 and in respect to that work the component is ready for release to service under EASA Part-145 Approval Number: EASA.145.5534". The work that was performed on this unit was done to meet the requirements of the Maintenance Manual, part number 190-00364-00.                                                  |                          |                                                                                                                                                                                                                                                                                |                          |                                                        |                                      |
| Thank You for Choosing Garmin! If you have any questions or concerns please do not hesitate to contact our customer service department at 1-800-800-1020. Please view Garmin's web site at www.garmin.com for any update or product information.                                                                                                                                                                        |                          |                                                                                                                                                                                                                                                                                |                          |                                                        |                                      |
| All repaired or replaced GARMIN units have a 90-day warranty or the continuation of the original factory warranty from the original purchase date, whichever is longer.                                                                                                                                                                                                                                                 |                          |                                                                                                                                                                                                                                                                                |                          |                                                        |                                      |
| 14. Certifies the items identified above were manufactured in conformity to:                                                                                                                                                                                                                                                                                                                                            |                          | 19. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input checked="" type="checkbox"/> Other regulations specified in Block 13                                                                                                                              |                          |                                                        |                                      |
| <input type="checkbox"/> Approved design data and are in condition for safe operation<br><input type="checkbox"/> Non-approved design data specified in block 13                                                                                                                                                                                                                                                        |                          | Certifies that unless otherwise specified in block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service. |                          |                                                        |                                      |
| 15. Authorized Signature<br>N / A                                                                                                                                                                                                                                                                                                                                                                                       |                          | 16. Approval/Authorization No.:<br>N / A                                                                                                                                                                                                                                       |                          | 20. Authorized Signature:<br><i>Stephen E. Abels</i>   |                                      |
| 17. Name (Typed or Printed)<br>N / A                                                                                                                                                                                                                                                                                                                                                                                    |                          | 18. Date (m/d/y)<br>N / A                                                                                                                                                                                                                                                      |                          | 21. Approval/Certificate No.:<br>G6XRS82Y              |                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                         |                          |                                                                                                                                                                                                                                                                                |                          | 22. Name (Typed or Printed)<br>Stephen E. Abels        |                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                         |                          |                                                                                                                                                                                                                                                                                |                          | 23. Date (m/d/y)<br>Jun 07 2013                        |                                      |
| User/Installer Responsibilities                                                                                                                                                                                                                                                                                                                                                                                         |                          |                                                                                                                                                                                                                                                                                |                          |                                                        |                                      |
| It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part/component/assembly.                                                                                                                                                                                                                                                             |                          |                                                                                                                                                                                                                                                                                |                          |                                                        |                                      |
| Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the Airworthiness Authority of the country specified in block 1.                         |                          |                                                                                                                                                                                                                                                                                |                          |                                                        |                                      |
| Statements in block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.                                                                                                                                            |                          |                                                                                                                                                                                                                                                                                |                          |                                                        |                                      |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |                                                                                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                          |                                                      |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------------------------------------|--|
| 1. Approving National Aviation Authority/Country:<br>FAA/UNITED STATES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 | 2. AUTHORIZED RELEASE CERTIFICATE<br>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                          | 3. Form Tracking Number:<br>WRK0218230               |  |
| 4. Organization Name and Address:<br> <b>MidContinent</b><br>INSTRUMENTS+AVIONICS<br>9400 E. 34th Street N.<br>Wichita, KS 67226-2615                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |                                                                                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                          | 5. Work Order/Contract/Invoice Number:<br>WRK0218230 |  |
| 6. Item:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 7. Description: | 8. Part Number:                                                                  | 9. Eligibility: | 10. Quantity:                                                                                                                                                                                                                                                                                                                                                                                                                      | 11. Serial/Batch Number: | 12. Status/Work:                                     |  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | FLIGHT COMPUTER | 065-0042-03<br>KC-192                                                            | N/A             | 1                                                                                                                                                                                                                                                                                                                                                                                                                                  | 52460                    | REPAIRED                                             |  |
| 13. Remarks:<br><b>THE WORK ORDER REFERENCED DESCRIBES THE ACTUAL WORK PERFORMED.</b><br><b>ALL WORK WAS PERFORMED REF. MANUAL # 006-05590-0000 6/1/83</b><br>Certifies that the work specified in block 12/13 was carried out in accordance with EASA Part-145 and in respect to that work the component is considered ready for release to service under EASA Part-145 Approval Number: EASA 145.4675                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |                                                                                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                          |                                                      |  |
| 14. 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 13.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 |                                                                                  |                 | 19. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input checked="" type="checkbox"/> Other regulation specified in Block 13<br>Certifies that unless otherwise specified in block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service. |                          |                                                      |  |
| 15. Authorized Signature:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 | 16. Approval/Authorization No.:                                                  |                 | 20. Authorized Signature<br>                                                                                                                                                                                                                                                                                                                    |                          | 21. Approval/Certificate No.:<br>FAA CRS OL2R061L    |  |
| 17. Name (Typed or Printed):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 | 18. Date (m/d/y):                                                                |                 | 22. Name (Typed or Printed):<br>MARK SMITH                                                                                                                                                                                                                                                                                                                                                                                         |                          | 23. Date (m/d/y):<br>Jun/11/2013                     |  |
| <b>User/Installer Responsibilities</b><br>It is important to understand that the existence of this document alone doesnot automatically constitute authority to install the part/component/assembly.<br>Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that thuser/installer ensures that his/her airworthiness acceptsparts/components/assemblies from the airworthiness authority of the country specified in Block 1.<br>Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by theinstaller/user before the aircraft may be flown. |                 |                                                                                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                          |                                                      |  |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |                                                                                                                 |                                                      |                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------|
| 1. Approving National Aviation Authority/Country:<br>FAA/UNITED STATES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2. AUTHORIZED RELEASE CERTIFICATE<br>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |                                                                                                                 | 3. Form Tracking Number:<br>WRK0188452               |                                                   |
| 4. Organization Name and Address:<br><br>MID-CONTINENT INSTRUMENT CO., INC<br>9400 E 34th ST. NORTH<br>WICHITA, KS 67226-2615<br>FAA CRS OL2R061L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |                                                                                                                 | 5. Work Order/Contract/Invoice Number:<br>WRK0188452 |                                                   |
| 6. Item:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 7. Description:                                                                  | 8. Part Number:                                                                                                                                                                                                                                                                                                                                                                                                                    | 9. Eligibility: | 10. Quantity:                                                                                                   | 11. Serial/Batch Number:                             | 12. Status/Work:                                  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | TURN COORD.                                                                      | 1394T100-3Z                                                                                                                                                                                                                                                                                                                                                                                                                        | N/A             | 1                                                                                                               | 2104-351                                             | OVERHAULED                                        |
| 13. Remarks:<br><b>THE WORK ORDER REFERENCED DESCRIBES THE ACTUAL WORK PERFORMED.</b><br><b>ALL WORK WAS PERFORMED REF. MANUAL # 34-20-43 ORIGINAL 12/04</b><br>The work specified in block 12/13 except as otherwise specified was carried out in accordance with EASA Part 145 and in respect to that work the aircraft component is considered ready for release to service under EASA Approval Certificate Number EASA.145.4675.                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |                                                                                                                 |                                                      |                                                   |
| 14. 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 13.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                  | 19. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input checked="" type="checkbox"/> Other regulation specified in Block 13<br>Certifies that unless otherwise specified in block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service. |                 |                                                                                                                 |                                                      |                                                   |
| 15. Authorized Signature:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                  | 16. Approval/Authorization No.:                                                                                                                                                                                                                                                                                                                                                                                                    |                 | 20. Authorized Signature<br> |                                                      | 21. Approval/Certificate No.:<br>FAA CRS OL2R061L |
| 17. Name (Typed or Printed):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                  | 18. Date (m/d/y):                                                                                                                                                                                                                                                                                                                                                                                                                  |                 | 22. Name (Typed or Printed):<br>NICHOLAS HOWE                                                                   |                                                      | 23. Date (m/d/y):<br>Nov/9/2011                   |
| <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 part/component/assembly.<br>Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness acceptances/assemblies from the airworthiness authority of the country specified in Block 1.<br>Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the installer/user before the aircraft may be flown. |                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |                                                                                                                 |                                                      |                                                   |

U3675



MID-CONTINENT INSTRUMENT CO., INC.

9400 E 34TH ST. NORTH

WICHITA, KS 67226-2615

FAA CRS OL2R061L

## Final Work Order

WRK0188452



November 3, 2011

Page: 1

|                                               |                              |                       |       |
|-----------------------------------------------|------------------------------|-----------------------|-------|
| Nomenclature<br><b>TURN COORD.</b>            | Serial No<br><b>2104-351</b> | Location<br><b>KS</b> | RMA # |
| Manufacturer's Part No.<br><b>1394T100-3Z</b> | Model No.                    | Quantity<br><b>1</b>  |       |
| Manufacturer<br><b>EGC</b>                    |                              | Service Period        |       |
|                                               |                              |                       |       |

Reason For Removal

## Work Instructions

Panel Tilt: 0°

Input: 12-32

Warranty Repair \_\_\_\_\_ Overhaul ☒ Return As Is \_\_\_\_\_

Special Instructions

Functional Test \_\_\_\_\_ Repair \_\_\_\_\_ Modified \_\_\_\_\_

## Preliminary Inspection

Seals Broken No

Cover Damaged No

Hidden Damage Inspection Required No

Nameplate Damaged No

Finding

Preliminary Inspector RAMON TORRES-BLAS

Date November 3, 2011

## Failure Analysis

Dial Discolored

AIRPLANE IS FADED. BACKGROUND PAINT ON INCLINOMETER IS OFF. BRUSHES ARE WORN 50%. ROTOR IS NOISY.  
INDEX RING IS OLD STYLE. FLAG IS STICKY.

Previous Service Bulletins Installed: N/A

## Work Accomplished

DISASSEMBLED, CLEANED, INSPECTED, REPAIRED AS NECESSARY USING PARTS LISTED, REASSEMBLED AND  
INSPECTED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS. UNIT IS OVERHAULED.

I.A.W Manual # 34-20-43 ORIGINAL 12/04

Outgoing Service Bulletins N/A

Technician NHAT NGUYEN

Date November 8, 2011

In-Process Inspector KHA NGUYEN

Date November 8, 2011

FINAL INSPECTOR NICHOLAS HOWE

Date November 9, 2011

## Parts Used

| Part Number | Part Description | Quantity |
|-------------|------------------|----------|
| 1234172-2   | INCLINOMETER     | 1        |
| 1234200-3N  | BEARING, BALL    | 2        |
| 1234200-5N  | BEARING, BALL    | 2        |
| 1234225-3   | WHEEL ASSY       | 1        |
| 1394141-3   | FACEPLATE ASSY   | 1        |
| 1394288     | BRUSH GUIDE      | 1        |
| 1394584-2   | INDEX RING ASSY  | 1        |



MID-CONTINENT INSTRUMENT CO., INC.

9400 E 34TH ST. NORTH

WICHITA, KS 67226-2615

FAA CRS OL2R061L

WRK0188452



November 3, 2011

Page: 2

## Final Work Order

|                                               |                              |                       |                      |  |
|-----------------------------------------------|------------------------------|-----------------------|----------------------|--|
| Nomenclature<br><b>TURN COORD.</b>            | Serial No<br><b>2104-351</b> | Location<br><b>KS</b> | RMA #                |  |
| Manufacturer's Part No.<br><b>1394T100-3Z</b> | Model No.                    |                       | Quantity<br><b>1</b> |  |
| Manufacturer<br><b>EGC</b>                    |                              |                       | Service Period       |  |
|                                               |                              |                       |                      |  |

1394585-1  
90-008-10010  
90-228-00011

MAGNETIC IND.  
SCREW  
SCREW

1  
2  
2



ACR ELECTRONICS, INC.  
Fort Lauderdale, FL 33312  
CAGE CODE : 18560

THE SCIENCE OF SURVIVAL

570-1600 Rev R

September 23, 2013

Description, Operation, Installation,  
& Maintenance Manual  
For the ME406 & ME406 HM ELT  
[www.acrartex.com](http://www.acrartex.com)



|          |     |            |       |    |    |                                                           |                                    |                                |
|----------|-----|------------|-------|----|----|-----------------------------------------------------------|------------------------------------|--------------------------------|
| DATE     | SYM | RELEASE    | AUTH  | DR | CK | <b>ACR ELECTRONICS, Inc.</b><br>Fort Lauderdale, FL 33312 |                                    | <b>DRAWING NO:</b><br>455-6605 |
| 05/09/10 | L   | DCA W9743  | LF LA | CH | AR | <b>DATE:</b><br>03-16-05                                  | <b>APPROVED BY:</b><br>Mark Endres | <b>REVISION:</b><br>R          |
| 09/13/10 | M   | DCA W10212 | LF LA | LT | SC |                                                           |                                    |                                |
| 05-31-11 | N   | DCA W11262 | LF LA | LT | PS | <b>DESCRIPTION:</b><br>Pack List, ME406 w/ 110-773        |                                    |                                |
| 10-19-11 | P   | ECO 14841  | ME    | CW | DP |                                                           |                                    |                                |
| 9-3-13   | R   | ECO 15482  | FJ    | CR | CR |                                                           |                                    |                                |

PAGE 1 of 1

**QUANTITY    PART NUMBER    DESCRIPTION**

|       |          |                                                   |
|-------|----------|---------------------------------------------------|
| 1 ea. | 455-7423 | Install Kit, ME406                                |
| 1 ea. | 150-1127 | Housing, D-Sub, 15-Pin, Grommet., Thumbscrew      |
| 1 ea. | 150-1130 | Connector, D-Sub, 15-Pin, Female, Solder Contacts |
| 4 ea. | 201-0810 | Screw, Phillips 8-32 x 5/8 SS                     |
| 4 ea. | 241-0832 | Nut, Hex 8-32 x 1/4 SS                            |
| 4 ea. | 246-0008 | Washer, Flat 1/2 SS                               |
| 2 ea. | 850-0814 | Sealant Strip, D-sub Connector                    |

|       |             |                                       |
|-------|-------------|---------------------------------------|
| 1 ea. | 455-6196    | Install Kit, NAV Remote Switch        |
| 1 ea. | 345-6196-04 | Remote Switch                         |
| 9 ea. | 151-6628    | Terminal, Crimp Female .062" Diameter |
| 1 ea. | 151-5009    | Receptacle, Housing 9 Pin             |
| 1 ea. | 591-0428    | Label, ELT Cautionary Use Advisory    |

**Components in box below assembled per 454-0001 (ME406 Shipping Configuration)**

|       |             |                                         |
|-------|-------------|-----------------------------------------|
| 1 ea. | 452-3034-1  | Assembly, Mounting Tray ME406 Yellow    |
| 1 ea. | 453-6603    | Main Assembly, ME406                    |
| 1 ea. | 110-773     | Ant, 121.5/406 MHz Whip                 |
| 1 ea. | 452-6505    | Buzzer, Piezo                           |
| 1 ea. | 570-1600    | DESC,OP,INSTALL, & MAINT MAN. ME406 ELT |
| 1 ea. | 611-6013-04 | Cable, Coax BNC to BNC 6 ft.            |

**NOTE:** ELT warranty registration, avionics warranty and satellite registration forms are available on the Artex web site at [www.acrartex.com](http://www.acrartex.com).

This drawing is a list of components for an installation kit. For the latest revisions of the components please refer to the electronic parts list generated at the time of shipping

| 3. Form Tracking Number:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  | 2. Form Tracking Number:                                                                                                             |                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------|------------------|
| 24561                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                  | 2452                                                                                                                                 |                  |
| 5. Work Order/Contract/Invoice Number:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                  | 5. Work Order/Contract/Invoice Number:                                                                                               |                  |
| 2452                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                  | 2452                                                                                                                                 |                  |
| 13. Remarks:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  | 13. Remarks:                                                                                                                         |                  |
| 1. Item:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  | 1. Item:                                                                                                                             |                  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Safety Restraint | 2. Part Number:                                                                                                                      | 2. Part Number:  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                  | 502 623 401-251                                                                                                                      | 502 623 401-251  |
| 3. Description:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3. Description:  | 4. Quantity:                                                                                                                         | 4. Quantity:     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                  | 2                                                                                                                                    | 2                |
| 5. Item:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5. Item:         | 6. Batch Number:                                                                                                                     | 6. Batch Number: |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                  | N/A                                                                                                                                  | N/A              |
| 7. Status/Work:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 7. Status/Work:  | 8. Status/Work:                                                                                                                      | 8. Status/Work:  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                  | Repair                                                                                                                               | Repair           |
| 14. Certifies the item identified above were manufactured in conformity to:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                  | 14. Certifies the item identified above were manufactured in conformity to:                                                          |                  |
| <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 13.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                  | <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service<br><input type="checkbox"/> Other regulation specified in Block 13 |                  |
| 15. Authorized Signature:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                  | 15. Authorized Signature:                                                                                                            |                  |
| <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <b>N</b> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                  | <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <b>A</b> </div>                                          |                  |
| 16. Approval/Authorization No.:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                  | 16. Approval/Authorization No.:                                                                                                      |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                  |                                                                                                                                      |                  |
| 17. Name (Typed or Printed):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  | 17. Name (Typed or Printed):                                                                                                         |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                  |                                                                                                                                      |                  |
| 18. Date (m/d/y):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  | 18. Date (m/d/y):                                                                                                                    |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                  |                                                                                                                                      |                  |
| 19. Approved/Certificate No.:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  | 19. Approved/Certificate No.:                                                                                                        |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                  | XWJR831X                                                                                                                             |                  |
| 20. Date (m/d/y):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  | 20. Date (m/d/y):                                                                                                                    |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                  | 5/9/07                                                                                                                               |                  |
| <p>It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the manufacturer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the manufacturer ensure that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.</p> <p>Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the manufacturer before the aircraft may be flown.</p> |                  |                                                                                                                                      |                  |
| <p>10. Rewebbed <u>Am Safe</u> restraints.</p> <p>11. Cert. per TSO- <u>C22F</u> Rated <u>1500#</u></p> <p>12. Renv per ASRPS1.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  |                                                                                                                                      |                  |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  |                                                                                         |                                 |               |                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |                                                |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------------|---------------------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------------------------------------|--|
| 1. Approving National Aviation Authority/Country:<br>FAA/United States                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                  | 2. <b>AUTHORIZED RELEASE CERTIFICATE</b><br>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG |                                 |               |                                                                                                                                                                                                                                                                                                                                                                                                                         |                  | 3. Form Tracking Number:<br>24562              |  |
| 4. Organization Name and Address:<br>Aviation Safety Products, Inc., 2223 Airport Dr., Blairsville, GA 30512                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                  |                                                                                         |                                 |               |                                                                                                                                                                                                                                                                                                                                                                                                                         |                  | 5. Work Order/Contract/Invoice Number:<br>2456 |  |
| 6. Item:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 7. Description:  | 8. Part Number:                                                                         | 9. Eligibility:                 | 10. Quantity: | 11. Serial/Batch Number:                                                                                                                                                                                                                                                                                                                                                                                                | 12. Status/Work: |                                                |  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Safety Restraint | 502 717-204-2251                                                                        | N/A                             | 2             | N/A                                                                                                                                                                                                                                                                                                                                                                                                                     | Repair           |                                                |  |
| 13. Remarks:<br><br>Rewebbed <u>Ansfe</u> restraints.<br>Cert. per TSO- <u>C224</u> Rated <u>1500#</u><br>Renv per ASRPS1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |                                                                                         |                                 |               |                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |                                                |  |
| 14. 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 13.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                  |                                                                                         |                                 |               | 15. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 13<br>Certifies that unless otherwise specified in Block 13, the work identified in Block 13 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service. |                  |                                                |  |
| 15. Authorized Signature:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |                                                                                         | 16. Approval/Authorization No.: |               | 17. Authorized Signature:                                                                                                                                                                                                                                                                                                                                                                                               |                  | 18. Approval/Certificate No.:                  |  |
| 17. Name (Typed or Printed):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                  |                                                                                         | 18. Date (m/d/y):               |               | 19. Name (Typed or Printed):                                                                                                                                                                                                                                                                                                                                                                                            |                  | 20. Date (m/d/y):                              |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  |                                                                                         |                                 |               | Todd Mathews                                                                                                                                                                                                                                                                                                                                                                                                            |                  | XWJR831X                                       |  |
| User/Installer Responsibilities<br>It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.<br>Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.<br>Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown. |                  |                                                                                         |                                 |               |                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |                                                |  |

FAA Form 8130-3 (6-01)

\*Installer must cross-check eligibility with applicable technical data.

HSN: 0052-00-012-9003

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  |                                                                                         |                                 |               |                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |                                                |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------------|---------------------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------------------------------------|--|
| 1. Approving National Aviation Authority/Country:<br>FAA/United States                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                  | 2. <b>AUTHORIZED RELEASE CERTIFICATE</b><br>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG |                                 |               |                                                                                                                                                                                                                                                                                                                                                                                                                         |                  | 3. Form Tracking Number:<br>24561              |  |
| 4. Organization Name and Address:<br>Aviation Safety Products, Inc., 2223 Airport Dr., Blairsville, GA 30512                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                  |                                                                                         |                                 |               |                                                                                                                                                                                                                                                                                                                                                                                                                         |                  | 5. Work Order/Contract/Invoice Number:<br>2456 |  |
| 6. Item:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 7. Description:  | 8. Part Number:                                                                         | 9. Eligibility:                 | 10. Quantity: | 11. Serial/Batch Number:                                                                                                                                                                                                                                                                                                                                                                                                | 12. Status/Work: |                                                |  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Safety Restraint | 502 628-401-2251                                                                        | N/A                             | 2             | N/A                                                                                                                                                                                                                                                                                                                                                                                                                     | Repair           |                                                |  |
| 13. Remarks:<br><br>Rewebbed <u>Ansfe</u> restraints.<br>Cert. per TSO- <u>C224</u> Rated <u>1500#</u><br>Renv per ASRPS1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |                                                                                         |                                 |               |                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |                                                |  |
| 14. 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 13.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                  |                                                                                         |                                 |               | 15. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 13<br>Certifies that unless otherwise specified in Block 13, the work identified in Block 13 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service. |                  |                                                |  |
| 15. Authorized Signature:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |                                                                                         | 16. Approval/Authorization No.: |               | 17. Authorized Signature:                                                                                                                                                                                                                                                                                                                                                                                               |                  | 18. Approval/Certificate No.:                  |  |
| 17. Name (Typed or Printed):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                  |                                                                                         | 18. Date (m/d/y):               |               | 19. Name (Typed or Printed):                                                                                                                                                                                                                                                                                                                                                                                            |                  | 20. Date (m/d/y):                              |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  |                                                                                         |                                 |               | Todd Mathews                                                                                                                                                                                                                                                                                                                                                                                                            |                  | XWJR831X                                       |  |
| User/Installer Responsibilities<br>It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.<br>Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.<br>Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown. |                  |                                                                                         |                                 |               |                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |                                                |  |

FAA Form 8130-3 (6-01)

\*Installer must cross-check eligibility with applicable technical data.

HSN: 0052-00-012-9003

US DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION  
STATEMENT OF COMPLIANCE WITH THE FEDERAL AVIATION REGULATIONS

DATE  
10/13/98

AIRCRAFT OF AIRCRAFT COMPONENT IDENTIFICATION

MAKE STOCK MODEL NO. TYPE (Airplane, Radio, Helicopter...) NAME OF APPLICANT G. B. STEEVES

IDENTIFICATION

LIST OF DATA

TITLE

5311

G.B. STEEVES  
LOT # 63197

ECLIPSE MEDIUM BEIGE VINYL  
BATCH # E0061  
80 YARDS

PURPOSE OF DATA

DEMONSTRATION OF COMPLIANCE WITH FAR MATERIAL  
FLAMMABILITY REQUIREMENTS

APPLICABLE REQUIREMENTS (List specific sections)

FAR 25.853 (a) APPENDIX F PART I (a)(1)(II)  
FAR 23.853 (a) APPENDIX F (d)(3)(II)  
12 SECOND VERTICAL BURN TEST

CERTIFICATION - Under authority vested by direction of the Administrator and in accordance with conditions and limitations of appointment under Part 183 of the Federal Aviation Regulations, data listed above and on attached sheets numbered \_\_\_\_\_ have been examined in accordance with established procedures and found to comply with applicable requirements of the Federal Aviation Regulations.

I (We) Therefore \_\_\_\_\_ Recommend approval of these data  
X Approve these data

SIGNATURE(S) OF DESIGNATED ENGINEERING REPRESENTATIVE(S)

DESIGNATION NUMBER(S)

CLASSIFICATION(S)

*Herb Reed II*

FAA DER KC-655

FLAMMABILITY

**Thomas Newman Engineering**  
262 Airport Road  
Anderson, Indiana 46017  
(765)378-7700

DATE: November 1, 2005

TEST REPORT: 110105-11

CLIENT: Hemisphere International

AIRCRAFT:

**VERTICAL FLAMMABILITY TEST REPORT**

FAR 25.853 (a) Appendix F Part I (a)(1)(ii) 12 Second Vertical

**Conditioning Room:**

Time In: 10/26/05 10:00 am

Time Out: 11/01/05 4:00 pm

**Specimen Description:**

Mirage Plus  
Bauhaus  
Item #210758  
Lot # 050914

| Flame<br>Application<br>(Seconds) | Flame Time<br>(Seconds) |      | Burn Length<br>(Inches) |      | Drippings<br>(Seconds) |      |
|-----------------------------------|-------------------------|------|-------------------------|------|------------------------|------|
|                                   | Warp                    | Fill | Warp                    | Fill | Warp                   | Fill |
| 12                                | 1.0                     |      | 0.4                     |      | 0.0                    |      |
| 12                                | 1.0                     |      | 0.5                     |      | 0.0                    |      |
| 12                                | 1.0                     |      | 0.6                     |      | 0.0                    |      |
| 12                                | 1.0                     |      | 0.5                     |      | 0.0                    |      |

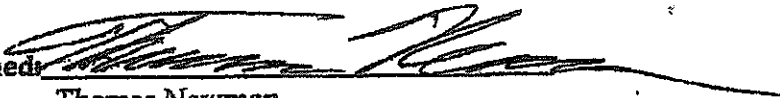
Vertical (12 Second) Burn Test: Average Self-Extinguish time may not exceed 15 seconds. Average Burn Length may not exceed 8 inches. Average Drippings may not exceed 5 seconds after falling.

Comments:

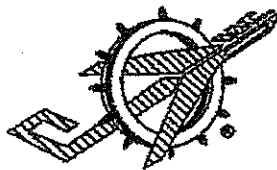
Passed ☒

Failed ☐

Signed:

  
Thomas Newman

Record No: 12920



*Ship Shape*

*Custom Products, Inc.*

P.O. Box 1141  
Mooresville, NC 28115  
(704)663-4159 Fax 663-7904

Tested For : *Douglass Interior Products*

Test Date : Jan 11, 2007

Inv/PO No : 22285/6

Test Report : 011107

P/N : DEC-4010/0408

Pattern : CARPET

MFG P/N :

D/L No : 22285/6

Color : SUEDE GREEN

Time In Conditioning 1/10/07 11:00AM

Time Out Conditioning 1/11/07 11:30AM

**TWELVE SECOND VERTICAL FLAMMABILITY TEST RESULTS**

**14 CFR 25.853 (a) Appendix F Part I (a) (1) (ii) (Amendment 25-83)**

| SELF-EXTINGUISH<br>TIME (seconds) | BURN LENGTH<br>(inches) | EXTINGUISH TIME<br>(seconds) |
|-----------------------------------|-------------------------|------------------------------|
| 2.20                              | 0.10                    | 0.00                         |
| 2.50                              | 0.10                    | 0.00                         |
| 1.90                              | 0.10                    | 0.00                         |
| Average: <u>2.20</u>              | <u>0.10</u>             | <u>0.00</u>                  |
|                                   |                         |                              |
|                                   |                         |                              |
|                                   |                         |                              |
|                                   |                         |                              |
|                                   |                         |                              |

Average:

Max:

15.0

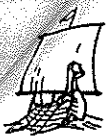
8.0

5.0

TESTED BY: B. W. H. H.

Passed: ☒ Failed: ☐





# SKANDIA

5000 N. Highway 251 ■ Davis Junction, IL 61020  
815.393.4600 ■ 800.945.7135  
www.SkandiaInc.com

Client:  
SKANDIA (PRODUCTS)  
5000 N HWY 251  
DAVIS JUNCTION IL 61020

WO #: 148174-06  
Date: 08/22/06  
Test Plan #:  
PO #:

Aircraft:  
STOCK

S/N:  
NA

## VERTICAL FLAMMABILITY TEST RESULTS

14 CFR PART 25.853(a) Amdt 25-116 App F Part I (a)(1)(ii)

Conditioning Room: Time In: 08/21/06 2:00PM Time Out: 08/22/06 2:06AM

Specimen: SKANDIA, INC.: DAX GRAPHITE/POLY FOAM 90 ILD 1/2", LOT #08026-D90

| Flame Application (seconds) | Flame Time (seconds) | Burn Length (inches) | Drippings (seconds) |
|-----------------------------|----------------------|----------------------|---------------------|
| 12                          | 0.0                  | 2.0                  | 0.0                 |
| 12                          | 0.0                  | 2.2                  | 0.0                 |
| 12                          | 0.0                  | 2.6                  | 0.0                 |
| Average:                    | 0.0                  | 2.3                  | 0.0                 |

### Comments:

Vertical (12 sec.) Burn Test: Average Self-Extinguish time may not exceed 15 sec. Average Burn Length may not exceed 8". Average Dripping may not exceed 5 sec. after falling.

Passed: ☒

Failed : ☐

Signed: \_\_\_\_\_

Carin Demus



5000 N. Highway 251 ■ Davis Junction, IL 61020  
815.393.4600 ■ 800.945.7135  
www.SkandiaInc.com

Client: Skandia (Products)  
5000 N. Hwy. 251  
Davis Junction IL 61020 USA

WO #: 157690-07  
Date: 03/05/07  
Test Plan #:  
PO #:

Aircraft:  
Stock

S/N:  
NA

VERTICAL FLAMMABILITY TEST RESULTS

14 CFR Part 25.853 (a) Amdt 25-116 Appendix F Part I (a)(1)(ii)

Conditioning Room: Time In: 03/02/07

Time Out: 03/05/07

Specimen: Skandia, Inc.: Dax Graphite/Poly Foam 55 ILD 1/2", Lot #02227-D55

| Flame Application (seconds) | Flame Time (seconds) | Burn Length (inches) | Drippings (seconds) |
|-----------------------------|----------------------|----------------------|---------------------|
| 12                          | 0.0                  | 0.5                  | 0.0                 |
| 12                          | 0.0                  | 0.3                  | 0.0                 |
| 12                          | 0.0                  | 0.3                  | 0.0                 |
| Average:                    | 0.0                  | 0.4                  | 0.0                 |

Comments:

Vertical (12 sec.) Burn Test: Average Self-Extinguish time may not exceed 15 sec. Average Burn Length may not exceed 8". Average Dripping may not exceed 5 sec. after falling.

Passed:

☒

Failed :

☐

Signed:

  
Carin Demus

Record No: 6843



*Ship Shape*

*Custom Products, Inc.*

P.O. Box 1141  
Mooresville, NC 28115  
(704)663-4159 Fax 663-7904

Tested For : *HEMISPHERE INT'L A G&T INDUSTRI* Test Date : May 26, 2004

Inv/PO No : 2138SW

Test Report : 052604

P/N : 2138

Pattern : LEATHER

Color : TAWNY

D/L No : 3117

**TWELVE SECOND VERTICAL FLAMMABILITY TEST RESULTS**

14 CFR 25.853 (a) Appendix F Part I (a) (1) (ii) (Amendment 25-83)

|          | SELF-EXTINGUISH<br>TIME (seconds) | BURN LENGTH<br>(inches) | EXTINGUISH TIME<br>(seconds) |
|----------|-----------------------------------|-------------------------|------------------------------|
|          | 1.10                              | 0.30                    | 0.00                         |
|          | 8.70                              | 0.30                    | 0.00                         |
|          | 1.90                              | 0.30                    | 0.00                         |
| Average: | <u>3.90</u>                       | <u>0.30</u>             | <u>0.00</u>                  |
|          |                                   |                         |                              |
|          |                                   |                         |                              |
|          |                                   |                         |                              |
| Average: |                                   |                         |                              |
| Max:     | 15.0                              | 8.0                     | 5.0                          |

TESTED BY: J. Gordon

Passed: ☒ Failed: ☐

NEW INTERIOR  
INSTALLED June 2007

## BURN CERTIFICATES

The following are the burn certifications for materials used in mooney 1991  
m 20m mr. jeff whittle

### Seats

Leather ;tawny patter; cassini rep; 052604

Foam ; poly foam 55 ½ lot#02227-d 55 -

Poly foam 90 1inch lot 08026 -d90

Carpet : suede green test rep# 22285/6

Side panels : ultraleather mirage plus test rep.#210758

Leather tawny : cassini rep.# 052604

Bagg. Comp. : eclipse color: medium beige test rep# E 0061

Ultraleather : mirage plus rep.# 210758

Seatbelt : cert : c22f part # 5027472042251

Part# 5026284012251



# AIRCRAFT EXHAUST SYSTEMS, I

REPAIR STATION #XHYR068L

Broomstraw Ridge Rd.  
Jumping Branch, WV 25969



CUSTOMER Columbia Air Service

ADDRESS CT

PHONE: \_\_\_\_\_ Rework \_\_\_\_\_  
CUST. PART REPAIR ☒ WTY. \_\_\_\_\_

| AIRCRAFT | PART #  | PART DESCRIPTION | WORK TO |
|----------|---------|------------------|---------|
| M-20M    | LW12728 | Adaptor Cy/#2    | Inspect |
|          |         |                  | C/p     |

ENG. Lyc. TIO540AFIA#

## MECHANIC CHECKLIST

HA

- |                                |                                    |    |
|--------------------------------|------------------------------------|----|
| <input type="checkbox"/> BURRS | <input type="checkbox"/> FLANGES   | 1. |
| <input type="checkbox"/> WELDS | <input type="checkbox"/> PAPERWORK | 2. |

## MATERIAL TYPE

## ITEMS REPLACED

|                                     |               |  |            |  |              |
|-------------------------------------|---------------|--|------------|--|--------------|
| <input checked="" type="checkbox"/> | 347 SS-FILLER |  | FLANGE     |  | CAP          |
| <input checked="" type="checkbox"/> | 321 SS        |  | BALL JOINT |  | STUDS        |
|                                     | 601 INCONEL   |  | BELL JOINT |  | SLIP JOINT   |
|                                     | ALUMINUM      |  | TAB        |  | BAFFLE PLATE |

NEW MATERIALS  
INSPECTED BY:

|                 |           |           |
|-----------------|-----------|-----------|
| OUTER SHELL     | TAIL-PIPE | HEAT FINS |
| INSTALL SECTION | BRACKET   | END PLATE |

OUR CORE:

|               |         |                      |
|---------------|---------|----------------------|
| STACK OVERLAY | DIVIDER | WORK ACCOMPLISHED BY |
|---------------|---------|----------------------|

| INSP                                | PRELIMINARY INSPECTION  | INSP                                | PROGRESSIVE INSPECTION  | INSP                                | FINAL INSPECTION                                                    |
|-------------------------------------|-------------------------|-------------------------------------|-------------------------|-------------------------------------|---------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | EXTERIOR DAMAGE         | <input checked="" type="checkbox"/> | INTERIOR DAMAGE         | <input checked="" type="checkbox"/> | CHECKED ALIGNMENT                                                   |
| <input checked="" type="checkbox"/> | VIBRATION/STRESS CRACKS | <input checked="" type="checkbox"/> | VIBRATION/STRESS CRACKS | <input checked="" type="checkbox"/> | CHECKED DIMENSIONS                                                  |
| <input checked="" type="checkbox"/> | OVERHEAT/BURN AREAS     | <input checked="" type="checkbox"/> | OVERHEAT/BURN AREAS     | <input checked="" type="checkbox"/> | VISUAL INSPECTION                                                   |
| <input checked="" type="checkbox"/> | DENT/BENT/MISALIGNED    |                                     | PRESSURE TEST           | <input checked="" type="checkbox"/> | REPAIR <input type="checkbox"/> NON-REPAIR <input type="checkbox"/> |

SERVICE LETTERS/BULLETINS/AD'S CHECKED ☒

CHIEF INSPECTORS FINAL APPROVAL Sam Green

## SERVICEABLE

Mfr. Lycoming/Mooney  
Component Adaptor Cy/#2  
Model M20M  
Part # LW12728

The aircraft component identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details of the repair are on file at this repair station under Work Order No. 48328A

Date 3-19-99

Signed Sam Green

Aircraft Exhaust Systems, Inc.

P. O. Box 159

Broomstraw Ridge Road  
Jumping Branch, WV 25969  
(304) 466-1724

FAA CERTIFICATED

REPAIR STATION NO. XHYR068L

SHIPPED

3-19-99



# AIRCRAFT EXHAUST SYSTEMS, I

REPAIR STATION #XHYR068L



Broomstraw Ridge Rd.  
Jumping Branch, WV 25969

CUSTOMER Columbia Air Service

ADDRESS CT

PHONE: \_\_\_\_\_ Rework ☐ CUST. PART REPAIR ☒ WTY \_\_\_\_\_

| AIRCRAFT | PART #  | PART DESCRIPTION | WORK T |
|----------|---------|------------------|--------|
| M-20M    | LW12728 | Adaptor          | Insp   |
|          |         | Cyl. #3          |        |

ENG. Ly C. TIOSHORE # 11

## MECHANIC CHECKLIST

- |                                |                                    |    |
|--------------------------------|------------------------------------|----|
| <input type="checkbox"/> BURRS | <input type="checkbox"/> FLANGES   | 1. |
| <input type="checkbox"/> WELDS | <input type="checkbox"/> PAPERWORK | 2. |

## MATERIAL TYPE

## ITEMS REPLACED

|                                     |               |                          |            |                          |              |
|-------------------------------------|---------------|--------------------------|------------|--------------------------|--------------|
| <input checked="" type="checkbox"/> | 347 SS-FILLER | <input type="checkbox"/> | FLANGE     | <input type="checkbox"/> | CAP          |
| <input checked="" type="checkbox"/> | 321 SS        | <input type="checkbox"/> | BALL JOINT | <input type="checkbox"/> | STUDS        |
| <input type="checkbox"/>            | 601 INCONEL   | <input type="checkbox"/> | BELL JOINT | <input type="checkbox"/> | SLIP JOINT   |
| <input type="checkbox"/>            | ALUMINUM      | <input type="checkbox"/> | TAB        | <input type="checkbox"/> | BAFFLE PLATE |

NEW MATERIALS  
INSPECTED BY: [Signature]

OUTER SHELL

TAIL-PIPE

HEAT FINS

INSTALL SECTION

BRACKET

END PLATE

OUR CORE:

STACK OVERLAY

DIVIDER

WORK ACCOMPLISHED BY [Signature]

| INSP                                | PRELIMINARY INSPECTION  | INSP                                | PROGRESSIVE INSPECTION  | INSP                                | FINAL INSPECTION                                                    |
|-------------------------------------|-------------------------|-------------------------------------|-------------------------|-------------------------------------|---------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | EXTERIOR DAMAGE         | <input checked="" type="checkbox"/> | INTERIOR DAMAGE         | <input checked="" type="checkbox"/> | CHECKED ALIGNMENT                                                   |
| <input checked="" type="checkbox"/> | VIBRATION/STRESS CRACKS | <input checked="" type="checkbox"/> | VIBRATION/STRESS CRACKS | <input checked="" type="checkbox"/> | CHECKED DIMENSIONS                                                  |
| <input checked="" type="checkbox"/> | OVERHEAT/BURN AREAS     | <input checked="" type="checkbox"/> | OVERHEAT/BURN AREAS     | <input checked="" type="checkbox"/> | VISUAL INSPECTION                                                   |
| <input checked="" type="checkbox"/> | DENT/BENT/MISALIGNED    | <input type="checkbox"/>            | PRESSURE TEST           | <input checked="" type="checkbox"/> | REPAIR <input type="checkbox"/> NON-REPAIR <input type="checkbox"/> |

RVICE LETTERS/BULLETINS/AD'S CHECKED ☒

CHIEF INSPECTORS FINAL APPROVAL [Signature]

89788314

SHIPPED

3-19-99

SERVICEABLE

Mfg. Maoney/Lycoming

Component Adaptor Cyl #3

Model M20M

Part # LW12728

The aircraft component identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details of the repair are on file at this repair station under Work Order No. 48328B

Date 3-19-99

Signed [Signature]

Aircraft Exhaust Systems, Inc.

P. O. Box 159

Broomstraw Ridge Road

Jumping Branch, WV 25969

(304) 466-1724

FAA CERTIFICATED

REPAIR STATION NO. XHYR068L

N369\$  
w/o 8688  
3/26/99



# AIRCRAFT EXHAUST SYSTEMS, I

REPAIR STATION #XHYR068L

Broomstraw Ridge Rd.  
Jumping Branch, WV 25969



CUSTOMER Columbia Air Service

ADDRESS CT

PHONE: \_\_\_\_\_ RWORK \_\_\_\_\_  
CUST. PART REPAIR ☒ WTY. \_\_\_\_\_

| AIRCRAFT | PART #   | PART DESCRIPTION | WORK T |
|----------|----------|------------------|--------|
| M-20M    | 40B21084 | Cyl #2 + Xover   | Inspe  |

ENG. LYC-T10540AFIA N#

## MECHANIC CHECKLIST

|                                           |                                               |    |
|-------------------------------------------|-----------------------------------------------|----|
| <input checked="" type="checkbox"/> BURRS | <input checked="" type="checkbox"/> FLANGES   | 1. |
| <input checked="" type="checkbox"/> WELDS | <input checked="" type="checkbox"/> PAPERWORK | 2. |

## MATERIAL TYPE ITEMS REPLACED

|               |            |              |
|---------------|------------|--------------|
| 347 SS-FILLER | FLANGE     | CAP          |
| 321 SS        | BALL JOINT | STUDS        |
| 601 INCONEL   | BELL JOINT | SLIP JOINT   |
| ALUMINUM      | TAB        | BAFFLE PLATE |

|                                |                 |           |
|--------------------------------|-----------------|-----------|
| NEW MATERIALS<br>INSPECTED BY: | OUTER SHELL     | TAIL-PIPE |
|                                | INSTALL SECTION | BRACKET   |
|                                | STACK OVERLAY   | DIVIDER   |

OUR CORE: \_\_\_\_\_

| INSP                                | PRELIMINARY INSPECTION  | INSP                                | PROGRESSIVE INSPECTION  | INSP                                | FINAL INSPECTION   |
|-------------------------------------|-------------------------|-------------------------------------|-------------------------|-------------------------------------|--------------------|
| <input checked="" type="checkbox"/> | EXTERIOR DAMAGE         | <input checked="" type="checkbox"/> | INTERIOR DAMAGE         | <input checked="" type="checkbox"/> | CHECKED ALIGNMENT  |
| <input checked="" type="checkbox"/> | VIBRATION/STRESS CRACKS | <input checked="" type="checkbox"/> | VIBRATION/STRESS CRACKS | <input checked="" type="checkbox"/> | CHECKED DIMENSIONS |
| <input checked="" type="checkbox"/> | OVERHEAT/BURN AREAS     | <input checked="" type="checkbox"/> | OVERHEAT/BURN AREAS     | <input checked="" type="checkbox"/> | VISUAL INSPECTION  |
| <input checked="" type="checkbox"/> | DENT/BENT/MISALIGNED    | <input checked="" type="checkbox"/> | PRESSURE TEST           | <input checked="" type="checkbox"/> | REPAIR             |
|                                     |                         |                                     |                         |                                     | NON-REPAIR         |

RVCE LETTERS/BULLETINS/AD'S CHECKED ☒

CHIEF INSPECTORS FINAL APPROVAL Hampton

SERVICEABLE

Mfgr. Lycoming/Mooney  
Component Cyl. #2 & Crossover  
Model M20M  
Part # 40B21084

The aircraft component identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details of the repair are on file at this repair station under Work Order No. 48328C

Date 3-17-99  
Signed A. Ham

Aircraft Exhaust Systems, Inc.

P. O. Box 159  
Broomstraw Ridge Road  
Jumping Branch, WV 25969  
(304) 466-1724

FAA CERTIFICATED  
REPAIR STATION NO: XHYR068L

SHIPPED

3-17-99



# AIRCRAFT EXHAUST SYSTEMS, I

REPAIR STATION #XHYR068L



Broomstraw Ridge Rd.  
Jumping Branch, WV 25969

CUSTOMER Columbia Air Service

ADDRESS OT

PHONE: \_\_\_\_\_ Rework ☐ CUST. PART REPAIR ☒ WTY \_\_\_\_\_

| AIRCRAFT | PART #   | PART DESCRIPTION | WORK T |
|----------|----------|------------------|--------|
| M-20M    | 40B19824 | Cyl #4           | Insp   |

ENG. Lyc. T. Iosifian AN# \_\_\_\_\_

## MECHANIC CHECKLIST

- |                                |                                    |    |
|--------------------------------|------------------------------------|----|
| <input type="checkbox"/> BURRS | <input type="checkbox"/> FLANGES   | 1. |
| <input type="checkbox"/> WELDS | <input type="checkbox"/> PAPERWORK | 2. |

## MATERIAL TYPE

## ITEMS REPLACED

|               |                                     |            |              |
|---------------|-------------------------------------|------------|--------------|
| 347 SS-FILLER | <input checked="" type="checkbox"/> | FLANGE     | CAP          |
| 321 SS        | <input type="checkbox"/>            | BALL JOINT | STUDS        |
| 601 INCONEL   | <input type="checkbox"/>            | BELL JOINT | SLIP JOINT   |
| ALUMINUM      | <input type="checkbox"/>            | TAB        | BAFFLE PLATE |

NEW MATERIALS  
INSPECTED BY: \_\_\_\_\_

OUTER SHELL

TAIL-PIPE

HEAT FINS

INSTALL SECTION

BRACKET

END PLATE

OUR CORE: \_\_\_\_\_

STACK OVERLAY

DIVIDER

WORK ACCOMPLISHED BY: \_\_\_\_\_

| INSP                                | PRELIMINARY INSPECTION  | INSP                                | PROGRESSIVE INSPECTION  | INSP                                | FINAL INSPECTION   |
|-------------------------------------|-------------------------|-------------------------------------|-------------------------|-------------------------------------|--------------------|
| <input checked="" type="checkbox"/> | EXTERIOR DAMAGE         | <input checked="" type="checkbox"/> | INTERIOR DAMAGE         | <input checked="" type="checkbox"/> | CHECKED ALIGNMENT  |
| <input checked="" type="checkbox"/> | VIBRATION/STRESS CRACKS | <input checked="" type="checkbox"/> | VIBRATION/STRESS CRACKS | <input checked="" type="checkbox"/> | CHECKED DIMENSIONS |
| <input checked="" type="checkbox"/> | OVERHEAT/BURN AREAS     | <input checked="" type="checkbox"/> | OVERHEAT/BURN AREAS     | <input checked="" type="checkbox"/> | VISUAL INSPECTION  |
| <input checked="" type="checkbox"/> | DENT/BENT/MISALIGNED    | <input checked="" type="checkbox"/> | PRESSURE TEST           | <input checked="" type="checkbox"/> | REPAIR             |
|                                     |                         |                                     |                         |                                     | NON-REPAIR         |

SERVICE LETTERS/BULLETINS/AD'S CHECKED ☒

CHIEF INSPECTORS FINAL APPROVAL L. Iosifian

88'86 RM

SHIPPED

3-19-99

SERVICEABLE

Mfr. Lycoming/Mooney

Component Cyl #4 Riser

Model M20M

Part # 40B19824

The aircraft component identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details of the repair are on file at this repair station under Work Order No. 48328D

Date 3-19-99

Signed L. Iosifian

Aircraft Exhaust Systems, Inc.

P. O. Box 159

Broomstraw Ridge Road

Jumping Branch, WV 25969

(304) 466-1724

FAA CERTIFICATED

REPAIR STATION NO. XHYR068L



# AIRCRAFT EXHAUST SYSTEMS, INC.

REPAIR STATION #XHYR068L



Broomstraw Ridge Rd.  
Jumping Branch, WV 25969

CUSTOMER Columbia Air Service

ADDRESS CT

PHONE: \_\_\_\_\_ Rework \_\_\_\_\_  
CUST. PART REPAIR ☒ WTY. \_\_\_\_\_

| AIRCRAFT | PART #   | PART DESCRIPTION | WORK TO |
|----------|----------|------------------|---------|
| M-20M    | 40B19822 | Cyl #1+3         | Insp    |
|          |          |                  |         |

ENG. LYC-T10540AFIA N# \_\_\_\_\_

## MECHANIC CHECKLIST

HA

- |                                           |                                               |    |
|-------------------------------------------|-----------------------------------------------|----|
| <input checked="" type="checkbox"/> BURRS | <input type="checkbox"/> FLANGES              | 1. |
| <input checked="" type="checkbox"/> WELDS | <input checked="" type="checkbox"/> PAPERWORK | 2. |

## MATERIAL TYPE

## ITEMS REPLACED

|                                                   |                                     |                                       |
|---------------------------------------------------|-------------------------------------|---------------------------------------|
| <input checked="" type="checkbox"/> 347 SS-FILLER | <input type="checkbox"/> FLANGE     | <input type="checkbox"/> CAP          |
| <input checked="" type="checkbox"/> 321 SS        | <input type="checkbox"/> BALL JOINT | <input type="checkbox"/> STUDS        |
| <input type="checkbox"/> 601 INCONEL              | <input type="checkbox"/> BELL JOINT | <input type="checkbox"/> SLIP JOINT   |
| <input type="checkbox"/> ALUMINUM                 | <input type="checkbox"/> TAB        | <input type="checkbox"/> BAFFLE PLATE |

NEW MATERIALS  
INSPECTED BY: [Signature]

OUTER SHELL

TAIL-PIPE

HEAT FINS

INSTALL SECTION  
3-00-14  
00-0-39734

BRACKET

END PLATE

OUR CORE:

STACK OVERLAY

DIVIDER

WORK ACCOMPLISHED BY: [Signature]

| INSP                                | PRELIMINARY INSPECTION  | INSP                                | PROGRESSIVE INSPECTION  | INSP                                | FINAL INSPECTION   |
|-------------------------------------|-------------------------|-------------------------------------|-------------------------|-------------------------------------|--------------------|
| <input checked="" type="checkbox"/> | EXTERIOR DAMAGE         | <input checked="" type="checkbox"/> | INTERIOR DAMAGE         | <input checked="" type="checkbox"/> | CHECKED ALIGNMENT  |
| <input checked="" type="checkbox"/> | VIBRATION/STRESS CRACKS | <input checked="" type="checkbox"/> | VIBRATION/STRESS CRACKS | <input checked="" type="checkbox"/> | CHECKED DIMENSIONS |
| <input checked="" type="checkbox"/> | OVERHEAT/BURN AREAS     | <input checked="" type="checkbox"/> | OVERHEAT/BURN AREAS     | <input checked="" type="checkbox"/> | VISUAL INSPECTION  |
| <input checked="" type="checkbox"/> | DENT/BENT/MISALIGNED    | <input checked="" type="checkbox"/> | PRESSURE TEST           | <input checked="" type="checkbox"/> | REPAIR             |
|                                     |                         |                                     |                         |                                     | NON-REPAIR         |

SERVICE LETTERS/BULLETINS/AD'S CHECKED ☒

CHIEF INSPECTORS FINAL APPROVAL [Signature]

## SERVICEABLE

Mfr. Lycoming/Mooney  
Component Cyl #1+3  
Model M20M  
Part # 40B19822

The aircraft component identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details of the repair are on file at this repair station under Work Order No. 48328E

Date 3-19-99

Signed [Signature]

Aircraft Exhaust Systems, Inc.

P. O. Box 159

Broomstraw Ridge Road  
Jumping Branch, WV 25969  
(304) 466-1724

FAA CERTIFICATED

REPAIR STATION NO. XHYR068L

SHIPPED

3-19-99



# AIRCRAFT EXHAUST SYSTEMS,

REPAIR STATION #XHYR068L



Broomstraw Ridge Rd.  
Jumping Branch, WV 25969

CUSTOMER

ADDRESS

PHONE:

REWORK

CUST. PART REPAIR

WT

| AIRCRAFT | PART #   | PART DESCRIPTION | WORK |
|----------|----------|------------------|------|
| M-20     | 40B19825 | Cyl #5           | TVDS |
|          |          |                  |      |

ENG. Lye. TIOS4DAFIA N#

## MECHANIC CHECKLIST

H

☐ BURRS

☐ FLANGES

1.

☐ WELDS

☐ PAPERWORK

2.

## MATERIAL TYPE

## ITEMS REPLACE

|                                |                                            |              |                      |
|--------------------------------|--------------------------------------------|--------------|----------------------|
| 347 SS-FILLER                  | FLANGE                                     | CAP          |                      |
| 321 SS                         | BALL JOINT                                 | STUDS        |                      |
| 601 INCONEL                    | BELL JOINT                                 | SLIP JOINT   |                      |
| ALUMINUM                       | TAB                                        | BAFFLE PLATE | BEADED END           |
| NEW MATERIALS<br>INSPECTED BY: | OUTER SHELL                                | TAIL-PIPE    | HEAT FINS            |
|                                | INSTALL SECTION<br>1.23-119<br>6-6-1139783 | BRACKET      | END PLATE            |
| OUR CORE:                      | STACK OVERLAY                              | DIVIDER      | WORK ACCOMPLISHED BY |

|      |                         |      |                         |        |                    |
|------|-------------------------|------|-------------------------|--------|--------------------|
| INSP | PRELIMINARY INSPECTION  | INSP | PROGRESSIVE INSPECTION  | INSP   | FINAL INSPECTION   |
| I    | EXTERIOR DAMAGE         | I    | INTERIOR DAMAGE         | INSP 6 | CHECKED ALIGNMENT  |
| I    | VIBRATION/STRESS CRACKS | I    | VIBRATION/STRESS CRACKS | INSP 6 | CHECKED DIMENSIONS |
| I    | OVERHEAT/BURN AREAS     | I    | OVERHEAT/BURN AREAS     | INSP 6 | VISUAL INSPECTION  |
| I    | DENT/BENT/MISALIGNED    |      | PRESSURE TEST           | ✓      | REPAIR             |
|      |                         |      |                         |        | NON-REPAIR         |

SERVICE LETTERS/BULLETINS/AD'S CHECKED

CHIEF INSPECTORS FINAL APPROVAL

SERVICEABLE

Mfr. Lycoming/Mooney

Component Cyl #5 Riser

Model M20M

Part # 40B19825

The aircraft component identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details of the repair are on file at this repair station under Work Order No. 48328F

Date 3-19-99

Signed L Green

Aircraft Exhaust Systems, Inc.

P. O. Box 159

Broomstraw Ridge Road  
Jumping Branch, WV 25969

(304) 466-1724

FAA CERTIFICATED

REPAIR STATION NO. XHYR068L

SHIPPED

3-19-99



# REPAIR WORK ORDER

## PRECISE FLIGHT, INC.

63120 POWELL BUTTE RD. BEND, OR 97701  
(541) 382-8684 1-800-547-2558 FAX (541) 388-1105

FOR  
OFFICE  
USE  
ONLY

INVOICE# \_\_\_\_\_  
P.O.# \_\_\_\_\_  
P.O. DATE \_\_\_\_\_

PRIMARY W.O.# 20725

RELATED W.O.# \_\_\_\_\_

DATE: 3-9-99

BILL TO  
COMPANY: \_\_\_\_\_

NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_

STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_

PHONE: (\_\_\_\_) \_\_\_\_\_

FAX: (\_\_\_\_) \_\_\_\_\_

SHIP TO  
COMPANY: Groton - New London

NAME: Columbia Air Services Inc.

ADDRESS: Groton - New London Airport  
Groton CT 06340

CITY: \_\_\_\_\_

STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_

PHONE: (860) 449-1257

FAX: (\_\_\_\_) \_\_\_\_\_

A/C MFG.: \_\_\_\_\_ MODEL: \_\_\_\_\_ YEAR: \_\_\_\_\_ N#: \_\_\_\_\_  
S/N: \_\_\_\_\_ VOLTS: 24

PART/MODEL# 01577 SERIAL # 3592

PRODUCT DESCRIPTION: SPRINGER

CIRCLE ONE: VISA MC AM EXP C.O.D. NET 30 NO CHARGE CHECK WARRANTY  
CARD#: \_\_\_\_\_ EXP. DATE: \_\_\_\_\_ CHECK#: \_\_\_\_\_

| QTY. | PART NUMBER | DESCRIPTION | LABOR HRS | EACH | TOTAL |
|------|-------------|-------------|-----------|------|-------|
| 1    | 02312       | MOTOR: 24V. |           |      |       |
| 1    | 01961       | SPRING      |           |      |       |
|      |             |             |           |      |       |
|      |             |             |           |      |       |
|      |             |             |           |      |       |
|      |             |             |           |      |       |
|      |             |             |           |      |       |
|      |             |             |           |      |       |
|      |             |             |           |      |       |
|      |             |             |           |      |       |
|      |             |             |           |      |       |
|      |             |             |           |      |       |
|      |             |             |           |      |       |
|      |             |             |           |      |       |

SHIP DATE: 3-9-99 SHIPPED VIA: UPS RED  
3-10-99 SHIP/ACCT #: \_\_\_\_\_

REMARKS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

|            |  |
|------------|--|
| C.O.D. CHG |  |
| FREIGHT    |  |
| HANDLING   |  |
| SUB TOTAL  |  |
| DEPOSIT    |  |
| TOTAL      |  |





**PRECISE FLIGHT INC.**

63120 POWELL BUTTE RD.

BEND, OREGON 97701

## REPAIR DISCREPANCY REPORT

DATE IN: 3/8/99  
MODEL/PART NO.: 01577  
SERIAL NO.: No 3592  
DESCRIPTION: 100 SERIES CMTI.  
CUSTOMER: \_\_\_\_\_  
DISCREPANCY FOUND DURING: ☒ USE ☐ INSTALLATION  
TEST PROCEDURE NUMBER: \_\_\_\_\_ REV. LEVEL: \_\_\_\_\_

### A. DISCREPANCY: (PRELIMINARY INSPECTION /TEST)

TECH. Duc

REPORTED: will not Deploy

FOUND: MOTOR Inop.

### B. CORRECTIVE ACTION:

☒ REPAIR  
☐ REMOVE FROM SERVICE

TECH. Duc INITIAL  
INSP. MS

| QTY | PART NO. | DESCRIPTION | QTY | PART NO. | DESCRIPTION |
|-----|----------|-------------|-----|----------|-------------|
| 1   | 01961    | SPRING      |     |          |             |
| 1   | 02312    | 24V MOTOR   |     |          |             |
|     |          |             |     |          |             |
|     |          |             |     |          |             |

### C. FINAL DISPOSITION:

FINAL ACCEPTANCE: ☒ TECH. Duc INSP. MS  
UNSERVICEABLE: ☐ TECH. \_\_\_\_\_ INSP. \_\_\_\_\_

### D. DISCREPANCY CAUSED BY:

- ☒ COMPONENT FAILURE  
☐ DAMAGED IN SHIPPING  
☐ IMPROPER INSTALLATION  
☐ UNKNOWN  
☐ OTHER: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### E. CORRECTIVE ACTION TO PREVENT RECURRENCE:

- ☐ REPLACE WITH RECON.  
☐ REPLACE WITH NEW  
☒ REPAIR (AS OUTLINED IN B.)  
☐ ADVISE CUSTOMER OF PROPER INSTALLATION PRACTICE  
☐ REMOVE FROM SERVICE  
☐ OTHER: \_\_\_\_\_

Date Out: 3-10-99

### MAINTENANCE RELEASE STATEMENT

This aircraft component identified above was repaired, inspected and tested in accordance with Federal Aviation Regulations and has been determined to be in airworthy condition.

AUTHORIZED SIGNATURE: [Signature]  
REPAIR STATION NO.: ☐ P5ER822J ☒ MMF S40-011

# PROBE INSTALLATION

**NOTE: Ensure color coding matches - Red/Ye**

## EGT PROBES - LOCATION:

The EGT probe of a basic system (single EGT probe en exhaust pipe of the cylinder that is leanest during full thro imended by the engine manufacturers. The leanest cylin trivolt setting and, for some carburetor engines, this can be c owner should become familiar with possible problems associa distribution within the engine in order to realize maximum effc Information on mixture distribution as well as the fundamental found in the ALCOR publication, "EGT and Combustion Ana or write ALCOR for a free copy.

The leanest cylinder is normally the cylinder with the hig the cylinder that first reaches peak EGT in leaning from full ric Combustion Analyzer (with an EGT probe for each cylinder), t always be selected.

Normally the probe should be located a minimum of 2" fi port flange and in such a position as to give the best routing o firewall. For highly supercharged engines, it is recommended less than 5" from the cylinder mounting flange, away from bea irregularities. Some aircraft manufacturers provide a boss whi ALCOR's welded boss type probe (see next page).

If the pipe has a longitudinal weld bead, select location t that clamp will fit flush with the pipe at probe insertion hole. De will allow the probe and wire to be free from interference with spark plugs, battling, cowlings, exhaust pipe and other engine components. All work should be done in accordance with AC43.13-1A.

## INSTALLATION: Clamp Type Probe (see Figure 1).

1. After locating the position for the probe, carefully drill hole at selected location using a No. 31 (0.1200 in.) (3.05 mm) or 32 (0.1160 in.) (2.95 mm) drill. Carefully ream hole using a No. 30 (0.1285 in.) (3.26 mm) drill. Correct hole size and alignment assures a press fit of probe element shoulder to prevent exhaust gas leakage.
2. Place clamp around pipe, insert probe element into hole, aligning shoulder with hole. Tighten clamp to remove looseness.
3. If necessary use a small wood dowel and light hammer (or other suitable tool) and lightly tap clamp at junction of probe body to seat probe shoulder into hole while maintaining correct alignment.
4. Torque clamp to a value of 30 to 35 inch pounds. WARNING: Over-tightening of clamp will severely shorten clamp life.
5. Remove excess clamp and deurr. If desired, safety wire clamp using good aircraft practices.
6. Allow ample slack lead wire for engine movement (especially when wire routing is directly from exhaust to airframe) by providing a slack loop shown in Figure 1. (This can be accomplished by making a finger loop in probe lead.)
7. Install sleeving over lead wire connections and secure with lacing cord. A red jumper wire (P/N 42523) is available for use when the stagger of lead and probe do not match.
8. Probe weight: 0.12 lbs.

Typical probes shown, type may vary

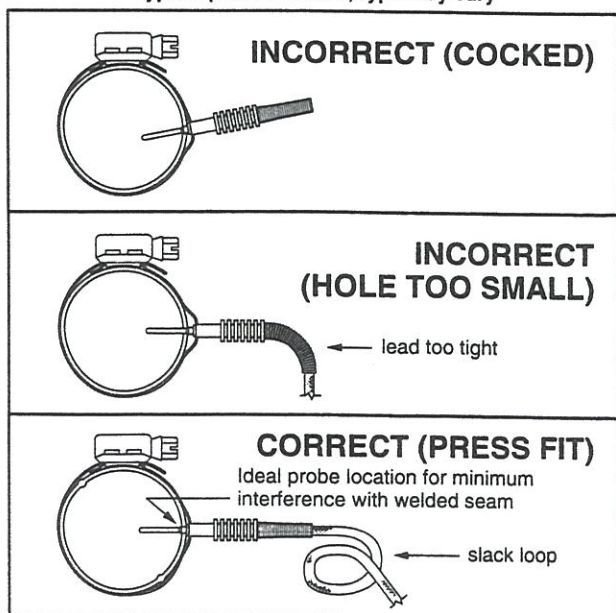


Figure 1. Clamp Type

# THANKS!

We're glad you chose ALCOR and we know you will be too!  
We take great pride in our products and if for any reason you are dissatisfied please let us know about it. Call us toll free.

TOLL FREE

1-800-354-7233

Product Description: ☒ Probe ☐ Meter ☐ Lead ☐ Other  
Product Part No. 86245 Date of Installation 3/26/99  
Aircraft Registration No. N369S  
Dealer's/Installer's Name Columbia Air Services, Inc  
Address 175 Tower Ave  
City/State/Zip Groton, CT 06340

**KEEP THIS FOR YOUR RECORDS**

**Figure 2. Welded Boss Type**  
(This is typically the recommended depth of insertion for all thermocouples... TIT included)

## INSTALLATION: (NPT) Type Probe

Probes sold under this heading are only for original part replacement and should be installed in accordance with the original aircraft manufacturers installation.

## TIT PROBES

1. Same as EGT probes except location.
2. If there is an existing TIT probe location, replacement probe should be installed in the same location. If not, install TIT probe, as close as practical to the turbo charger inlet, in the inlet collector.

**FAA-PMA/STC SA522-SW** - This product is FAA approved for installation on all piston engine aircraft. After installation of complete system, return aircraft to service via Form 337 referencing STC SA522-SW (this is not required for replacement parts).

United States of America  
Department of Transportation - Federal Aviation Administration  
**Supplemental Type Certificate**

Number SA522SW 190-9001  
RDK

This certificate issued to ALCOR Aviation, Inc.  
12043 Colwick  
San Antonio, TX 78216

certifies that the design of the type design for the following product meets the limitations and conditions thereof as specified herein under the supplemental requirements of Part 23 of the Federal Aviation Regulations, Parts 3, 4a, 4b of the Civil Air Regulations

Original Product - Type Certificate Number See Limitations and Conditions  
Make See Limitations and Conditions  
Model See Limitations and Conditions

Description of Type Design Change  
Installation of Exhaust Gas Temperature (EGT), Cylinder Head Temperature (CHT) Components/Systems in accordance with Master Drawing List titled "Alcor Master Drawing List for STC SA522SW dated November 14, 1984," or later FAA approved revisions.

Limitations and Conditions  
All aircraft equipped with reciprocating engines are eligible for the installation of the Alcor EGT and CHT Component/Systems. Compatibility of this modification with previously installed equipment must be determined by installer.

This certificate and the supporting data which is the basis for approval shall remain in effect until an amended, suspended, voided, or a termination date is otherwise established by the Administration of the Federal Aviation Administration.

Date of application April 15, 1965 Date issued 7/5/94  
Date of issuance May 26, 1965 Date issued 4/30/92 Rev. 15

By direction of the Administration  
Mark R. Schilling, Manager  
Special Certification Office

An alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.



**HRD Aero Systems, Inc.**  
 24907 ANZA DRIVE  
 VALENCIA, CA 91355  
 Phone: (661) 295-0670  
 Fax: (661) 295-0672  
 FAA APPROVED REPAIR STATION  
 RALHRXH

**INVOICE#: PROFORMA**

Date: 08/03/00

#Items: 1

Page: 1

PACKING SLIP (COPY)

**SOLD TO:**

COLUMBIA AIR SERVICES, INC.  
 GROTON/NEW LONDON AIRPORT  
 ATTEN; ACCOUNTS PAYABLE  
 GROTON, CT 06340

FRED STORZ

**SHIP TO:**

COLUMBIA AIR SERVICES, INC.  
 GROTON/NEW LONDON AIRPORT  
 175 TOWER AVENUE  
 GROTON, CT 06340

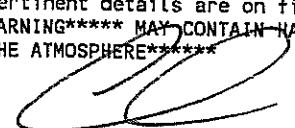
Phone: (860) 449-1400

Fax: (860) 446-3057

ORDER DATE: 08/02/00  
 SHIP DATE: 08/03/00  
 SALES ORD: WO-X28486  
 CUSTOMER#: 20297  
 SHIP VIA: AIRBORNE NEX

TERMS: NET 30  
 CUST PO#: 300193  
 AWB:  
 FOB: VALENCIA  
 BUYER: FRED STORZ

WEIGHT:  
 #BOXES:  
 SHIPMENT: 1  
 SOLD BY:

| Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Part Number/Desc                       | Shipped | Back Ord | CD | Unit Price       | Total Amt     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|---------|----------|----|------------------|---------------|
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 895-08015<br>OXYGEN BOTTLE<br>SN: 1637 | 1       | 0        | OH | XXXXXXXXXXXXX EA | XXXXXXXXXXXXX |
| <p>Note: UNIT OVERHAULED, HYDROSTATIC TESTED AND FILLED WITH A.B.O. ADDED 1 EA SEAL.</p> <p>* * * ORDER COMPLETE * * *</p> <p>CERTIFICATION: We hereby certify that the materials covered by this invoice were repaired and/or inspected to meet the F.A.A. and Original Equipment Manufacturers Specifications. We certify that the unit(s) shipped herewith has been overhauled and/or repaired using Factory New O.E.M Parts, FAA-PMA Equivalence or Serviceable Components. We certify that unit(s) shipped herewith have been subject to all necessary test, and all pertinent details are on file at HRD Aero Systems, Inc.</p> <p>WARNING***** MAY CONTAIN HALON, A SUBSTANCE WHICH HARMS PUBLIC HEALTH AND ENVIRONMENT BY DESTROYING OZONE IN THE ATMOSPHERE*****</p> <p> 8/3/00</p> <p>Authorized Signature Date</p> |                                        |         |          |    |                  |               |
| SPECIAL INSTRUCTIONS:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                        |         |          |    |                  |               |

ITEM TOTAL

TAX TOTAL

Sub TOTAL

HAZMAT

FREIGHT

TOTAL DUE

## WORK ORDER:

X28486

ITEM#: 1

A.A. APPROVED REPAIR STATION

F.A.A.# HR7R085J

HRD Oxygen Systems, Inc.

24907 Anza Drive

Valencia, Ca 91355

08/03/00

13:04:28

PAGE: 2

661-295-0670

FAX: 661-295-0672

CUST: COLUMBIA AIR SERVICES, INC.

PN: 895-08015

DESC: OXYGEN BOTTLE

MFG:

ALT/MFG PN(S):

MODIFY TO:

PO: 300193

PHONE: (860) 449-1400

FAX: (860) 446-3057

SERIAL: 1637

WARRANTY:

DATE RECEIVED 08/02/00

DATE DUE: 08/03/00

DATE COMPLETED: AUG 03/2000

800207-00

SERIAL: PO\*100059

Control#: 55991/4

8820-10

SERIAL: PO\*100353

Control#: 59542/3

MS9068-007

SERIAL: PO\*85665

Control#: 36222/1

VALVE ASSY

①

FILTER

②

PACKING

①

FILE  
1090



WORK ORDER:  
X28486

ITEM#: 1

A.A. APPROVED REPAIR STATION

F.A.A.# HR7R085J

HRD Oxygen Systems, Inc.  
24907 Anza Drive  
Valencia, Ca 91355

08/03/00

13:04:23

PAGE: 1

661-295-0670  
FAX: (661) 295-0672

CUST: COLUMBIA AIR SERVICES, INC.

PN: 895-08015

DESC: OXYGEN BOTTLE

MFG:

ALT/MFG PN(S):

MODIFY TO:

PO: 300193

PHONE: (860) 449-1400

FAX: (860) 446-3057

SERIAL: 1637

WARRANTY:

DATE RECEIVED 08/02/00

DATE DUE: 08/03/00

DATE COMPLETED: AUG 03 2000

X

~~AUTHORIZED SIGNATURE~~

ORIGINAL

PARTS REPLACED:

| PART NUMBER                                          | DESCRIPTION | QTY             | REASON REPLACED |
|------------------------------------------------------|-------------|-----------------|-----------------|
| < + indicates this part was added to original list > |             |                 |                 |
| 10006001                                             | SAFETY DISC | ①               |                 |
| SERIAL: PO*100353                                    |             |                 |                 |
| Control#:59539/1                                     |             |                 |                 |
| 24202-01                                             | FILTER      | ①               |                 |
| SERIAL: PO*85408                                     |             |                 |                 |
| Control#:35973/1                                     |             |                 |                 |
| 57524-00                                             | CORE, VALVE | ②               | 1090            |
| SERIAL: PO*100353                                    |             |                 |                 |
| Control#:58703/4                                     |             |                 |                 |
| 57854-00                                             | PACKING     | ①               |                 |
| SERIAL: 1Q00-1Q05                                    |             |                 |                 |
| Control#:58206/10                                    |             |                 |                 |
| 59776-01                                             | SEAL, BOSS  | ①               |                 |
| SERIAL: PO*100074                                    |             |                 |                 |
| Control#:55550/1                                     |             |                 |                 |
| 59878-00                                             | SEAL        | ① + Factory New |                 |
| SERIAL: PO*100195                                    |             |                 |                 |
| Control#:58670/3                                     |             |                 |                 |
| 6555-00                                              | GASKET      | ①               |                 |
| SERIAL: PO*100059                                    |             |                 |                 |
| Control#:56019/9                                     |             |                 |                 |

(Continued on next page)

ORDER:

HRD Oxygen Systems, Inc.  
24907 Anza Drive  
Valencia, Ca 91355

08/02/00  
10:14:06  
PAGE: 2

ITEM#: 1

P.A.A.# HR7R085J

661-295-0670

CUST: COLUMBIA AIR SERVICES, INC.

PO: 300193

PN: 895-08015

PHONE: (860) 449-1400

DESC: OXYGEN BOTTLE

FAX: (860) 446-3057

MFG:

SERIAL: 1637

ALT/MFG PN(S):

MODIFY TO:

WARRANTY:

DATE RECEIVED 08/02/00

DATE DUE: 08/03/00

DATE COMPLETED: AUG 03/2000

O.E.M. Initial testing found regulator leaking from  
the vent hole in the on position. Found seal unserviceable  
Removed and replaced with a factory seal. Retested unit. Found  
No further discrepancies or defects. HRL 1090

INSTALLED REGULATOR / VALVE:.....YES (X) NO ( ) HRL 1090

SERVICED WITH A.B.O. TO: 1800 PSI ( ) 1850 PSI (X) HRL 1090

AK CHECKED UNIT:.....YES (X) NO ( ) HRL 1090

///NOTE:ALL PARTS REPLACED ARE LISTED ON FOLLOWING PAGE.

///UNIT IS CONTINUED TIME ( ) UNIT IS IN OVERHAULED CONDITION (X)

TRAINING RECORDS FILLED OUT BY REPAIRMAN (NAME):

TRAINING RECORDS SIGNED BY TRAINER (NAME):

SUPERVISOR (NAME):

HRD  
INSP 9

Steve Zeytounian

X  
AUTHORIZED SIGNATURE:

ORIGINAL

## WORK ORDER:

X28486

ITEM#: 1

HRD Oxygen Systems, Inc.  
24907 Anza Drive  
Valencia, Ca 91355

08/02/00

10:14:04

PAGE: 1

P.A.A.# HR7R085J

FAX:661-295-0672

661-295-0670

CUST: COLUMBIA AIR SERVICES, INC.

PO: 300193

PN: 895-08015

PHONE: (860) 449-1400

DESC: OXYGEN BOTTLE

FAX: (860) 446-3057

MFG:

SERIAL: 1637

ALT/MFG PN(S):

MODIFY TO:

WARRANTY:

DATE RECEIVED 08/02/00

DATE DUE: 08/03/00

DATE COMPLETED: AUG 02, 2000

## TASK BREAKDOWN:

TASK#: 1 DEPT#:

TASK -&gt; WORK REQUESTED BY CUSTOMER: REGULATOR OVERHAUL / HYDRO RETEST

TASK -&gt; (HRL 1090) (HRL 1118)

TECHNICIAN: (HRL 1090) INSPECTOR: HRD NSP 9

DATE COMPLETED: AUG 03, 2000

ACTION-&gt; RESULTS OF EVALUATION:

OVERHAUL REG/VALVE (X) FLOW CHECK ( ) HYDRO TEST (X) PAINT ( )

LAST HYDRO DATE 9-97 DATE OF CYL MFG 12-89 EXPIRATION DATE 12-2004

REG/VALVE P/N: 803216-03/801765-00 REG/VALVE S/N: 612/2274 STAMP

INSPECTED CYLINDER: YES (X) NO ( ) HRL 1090

TIMED AND PAINTED CYLINDER: YES ( ) NO (X) HRL 1090

HYDROSTATIC RETESTED AND PURGED CYLINDER

PER TITLE 49 173-00: YES (X) NO ( ) HRL 1090

REG/VALVE OVERHAULED PER O.E.M. YES (X) NO ( ) HRL 1090

REASSEMBLE PER O.E.M. YES (X) NO ( ) HRL 1090

REG/VALVE FUNCTION TEST/FILLED OUT TEST FORM. YES (X) NO ( ) HRL 1090

LEAK CHECKED REG/VALVE ASSEMBLY. YES (X) NO ( ) HRL 1090

SERVICE MANUAL#: 35-21-80 REV.: 1 REV. DATE: Sept. 30, 1999

REPAIRED / DISCREPANCIES / CORRECTIVE ACTION: Cylinder must be removed

from service on or before 12-2004. Overhauled unit per.

(Continued on next page)

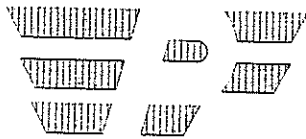
|                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                                                                                                                                                        |                                                        |              |                                              |                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--------------|----------------------------------------------|-----------------|
| 1. UNITED STATES                                                                                                                                                                                                                                                             |  | 2. <b>FAA FORM 8130-3</b><br><b>AIRWORTHINESS APPROVAL TAG</b><br>U.S. Department of Transportation<br>Federal Aviation Administration                                                                                                                                                                                                                                 |                                                        |              | 3. System Tracking Ref. No.<br><b>X28486</b> |                 |
| 4. Organization<br>HRD Oxygen Systems, Inc.<br>24907 Anza Drive<br>Valencia, Ca 91355                                                                                                                                                                                        |  | 5. Work Order, Contract, or Invoice Number.<br><b>X28486</b>                                                                                                                                                                                                                                                                                                           |                                                        |              |                                              |                 |
| 6. Item 7. Description                                                                                                                                                                                                                                                       |  | 8. Part Number                                                                                                                                                                                                                                                                                                                                                         | 9. Eligibility                                         | 10. Quantity | 11. Serial/Batch Number                      | 12. Status/Work |
| 1 OXYGEN BOTTLE                                                                                                                                                                                                                                                              |  | 895-08015                                                                                                                                                                                                                                                                                                                                                              | TBV                                                    | 1            | 1637                                         | OVERHAUL        |
| 13. Remarks<br>Regulator/Valve Part#: <u>803216-03/801765-00</u> Serial#: <u>612/2274</u><br>This article was OVERHAULED, HYDROSTATIC RETESTED and INSPECTED IAW CMM Spec <u>35-21-80</u> .<br>All Applicable A.D.'s have been complied with.<br>See Work Order for details. |  |                                                                                                                                                                                                                                                                                                                                                                        |                                                        |              |                                              |                 |
| Limited life parts must be accompanied by maintenance history including total time/total cycles/time since new.                                                                                                                                                              |  |                                                                                                                                                                                                                                                                                                                                                                        |                                                        |              |                                              |                 |
| 14. New <input type="checkbox"/> Newly Overhauled <input checked="" type="checkbox"/>                                                                                                                                                                                        |  | 19. Return to Service in Accordance with FAR 43.9<br>Certifies that the new or newly overhauled part(s) identified above, except as otherwise specified in block 13 was (were) manufactured in accordance with FAA approved design data and airworthiness.<br>Note: In cases of parts to be exported, the special requirements of the importing country have been met. |                                                        |              |                                              |                 |
| 15. Signature                                                                                                                                                                                                                                                                |  | 16. FAA Authorization No:                                                                                                                                                                                                                                                                                                                                              | 20. Authorized Signature:                              |              | 21. Certificate Number:<br><b>HR7R085J</b>   |                 |
| 17. Name (Typed or Printed)                                                                                                                                                                                                                                                  |  | 18. Date:                                                                                                                                                                                                                                                                                                                                                              | 22. Name (Typed or Printed)<br><b>Steve Zeytounian</b> |              | 23. Date:<br><u>8-3-00</u>                   |                 |

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

The FAA Form and JAA Form One are Equivalent. Other countries such as Canada also have equivalent acceptable documents.

FAA Form 8130-3 (11-93)





**PRECISE FLIGHT INC.**

63120 POWELL BUTTE RD.

BEND, OREGON 97701

## REPAIR DISCREPANCY REPORT

DATE IN: 1-15-01

MODEL/PART NO.: 01577

SERIAL NO.: 2209

DESCRIPTION: 100 S/A 24V

CUSTOMER: Piedmont Hawthorne

DISCREPANCY FOUND DURING: ☒ USE

☐ INSTALLATION

TEST PROCEDURE NUMBER: 96-T100

REV. LEVEL:       

### A. DISCREPANCY: (PRELIMINARY INSPECTION / TEST)

TECH. [Signature]

REPORTED: unknown

FOUND: Ring Gear Stripped, motor weak, Bearings Failing

### B. CORRECTIVE ACTION:

☐ REPAIR

☐ REMOVE FROM SERVICE

TECH. [Signature]

INSP. [Signature]

INITIAL

DESCRIPTION

| QTY | PART NO. | DESCRIPTION     | QTY | PART NO. | DESCRIPTION |
|-----|----------|-----------------|-----|----------|-------------|
| 1   | 01418    | Ring Gear       | 2   | 01743    | 6-32 Screw  |
| 1   | 01961    | Clutch Spring   | 1   | 04687    | Motor Clamp |
| 2   | 01372    | Flanged Bearing | 1   | 01356    | 6-32 Screw  |
| 1   | 01891    | Return Spring   | 2   | 02312    | 24V motor   |

### C. FINAL DISPOSITION:

FINAL ACCEPTANCE: ☒

TECH. [Signature]

INSP. [Signature]

UNSERVICEABLE: ☐

TECH.       

INSP.       

### D. DISCREPANCY CAUSED BY:

- ☒ COMPONENT FAILURE  
☐ DAMAGED IN SHIPPING  
☐ IMPROPER INSTALLATION  
☐ UNKNOWN  
☐ OTHER:

### E. CORRECTIVE ACTION TO PREVENT RECURRENCE:

- ☐ REPLACE WITH RECON.  
☐ REPLACE WITH NEW  
☒ REPAIR (AS OUTLINED IN B.)  
☐ ADVISE CUSTOMER OF PROPER INSTALLATION PRACTICE  
☐ REMOVE FROM SERVICE  
☐ OTHER

Date Out: 1-16-01

### MAINTENANCE RELEASE STATEMENT

This aircraft component identified above was repaired, inspected and tested in accordance with Federal Aviation Regulations and has been determined to be in airworthy condition.

AUTHORIZED SIGNATURE: [Signature]

REPAIR STATION NO.: ☐ P5ER822J

100 Series Speedbrake Eligibility

Mooney

M20B, M20C, M20E, M20F, M20G, M20J, and M20K

Cessna

210G, T210G, 210H, 210J, 210K, T210K, T210J, 210L, T210L, 210M, T210M, 210N, P210N, T210N, P210R, T210R, 210R, T210H

Cessna

177RG, 180 Series, 182 Series, 185 Series, 206, 210D, 210E, 210F

Piper

PA-30, PA-39, PA-24, PA-24-250, PA-24-260, and PA-24-400

Left Speed Brake

N369\$  
w/o \$001133  
1/18/01

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                   |                                                                                                                                     |                                                                                                                                                                                                                                                                                                                       |                                                   |                                                      |                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|------------------------------------------------------|-------------------------------------|
| 1. UNITED STATES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   | 2.                                                                                                                                  |                                                                                                                                                                                                                                                                                                                       | 3. System Tracking Ref. No.<br>011601             |                                                      |                                     |
| 4. Organization<br><b>Precise Flight, Inc.</b><br>63120 Powell Butte Road<br>Bend, OR 97701                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   | <b>FAA FORM 8130-3</b><br><b>AIRWORTHINESS APPROVAL TAG</b><br>U.S. Department of Transportation<br>Federal Aviation Administration |                                                                                                                                                                                                                                                                                                                       |                                                   | 5. Work Order, Contract, or Invoice Number.<br>28789 |                                     |
| 6. Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 7. Description    | 8. Part Number                                                                                                                      | 9. Eligibility*                                                                                                                                                                                                                                                                                                       | 10. Quantity                                      | 11. Serial/Batch Number                              | 12. Status/Work                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 100 S/B CART. 24V | 01577                                                                                                                               | SEE ATTACHED                                                                                                                                                                                                                                                                                                          | 1                                                 | 2209                                                 | REBUILT                             |
| 13. Remarks<br>Unit has been disassembled, cleaned, inspected, repaired as necessary, reassembled, and tested to new specifications.<br>Parts added or replaced: (1) 01418 (1) 01961 (2) 01372 (1) 01691 (2) 01743 (1) 04687 (1) 01356 (1) 02312                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |                                                                                                                                     |                                                                                                                                                                                                                                                                                                                       |                                                   |                                                      |                                     |
| Limited life parts must be accompanied by maintenance history including total time/total cycles/time since new.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                   |                                                                                                                                     |                                                                                                                                                                                                                                                                                                                       |                                                   |                                                      |                                     |
| 14.<br>New <input type="checkbox"/><br><br>Newly Overhauled <input type="checkbox"/><br><br>Certifies that the new or newly overhauled part(s) identified above, except as otherwise specified in block 13 was (were) manufactured in accordance with FAA approved design data and airworthiness.<br><br><b>NOTE:</b> In case of parts to be exported, the special requirements of the importing country have been met.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                                                                                                                                     | 19. Return to Service<br><br><b>Return to service in accordance with far 43.9</b><br><br>Certifies that the work specified in block 13 (or attached) above was carried out in accordance with FAA airworthiness regulations and in respect to the work performed the part(s) is (are) approved for return to service. |                                                   |                                                      |                                     |
| 15. Signature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                   | 16. FAA Authorization no.:                                                                                                          |                                                                                                                                                                                                                                                                                                                       | 20. Authorization Signature:                      |                                                      | 21. Certificate Number:<br>PQ0093NM |
| 17. Name (Typed or Printed)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   | 18. Date                                                                                                                            |                                                                                                                                                                                                                                                                                                                       | 17. Name (Typed or Printed)<br>Justin M. Henneous |                                                      | 18. Date:<br>1/16/01                |
| <p align="center"><b>User/Installer Responsibilities</b></p> <p>It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.</p> <p>Where the user/installer work in accordance with the national regulations of an Airworthiness Authority different than Airworthiness Authority of the country specified in block 1 it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the Airworthiness Authority from the country specified in block 1.</p> <p>Statements in block 14 and 19 do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.</p> <p>The FAA Form 8130-3 and JAA Form One are equivalent. Other Countries such as Canada also have equivalent acceptable documents.</p> |                   |                                                                                                                                     |                                                                                                                                                                                                                                                                                                                       |                                                   |                                                      |                                     |

**WARRANTY CLAIM?  
WARRANTY QUESTIONS?  
BATTERY SERVICING?**

**Call the Warranty Helpline First !!!**

**(800) 456-0070**

**Ext. 7 or 8**

Upon Initial Installation of your New "Gill" Aircraft Battery be sure to follow all of the appropriate servicing instructions!!!

Why should you follow our servicing instructions prior to the installation of your New "Gill" Battery in your aircraft?

By the time your battery leaves our manufacturing plant, you can be assured that it has been assembled and inspected by many skilled manufacturing and quality assurance technicians.

We take a lot of pride in our battery products, and it is important to all of us that you are completely satisfied with your new "Gill" Battery purchase and the performance of the product that you receive.

Not many of our batteries experience manufacturing problems, but any of those that do, we want to know about immediately! We're here to help solve any problems and to advise if a warranty claim is necessary.

If you are not experiencing problems, but you have questions or concerns, we're here to help you. Please use our toll free number (800) 456-0070 Monday through Friday during our normal business hours and talk to one of our product support technicians. Our product support team will be happy to advise and answer your questions on how to correctly care for your New "Gill" Battery.

We know that you want a quality battery (for your dollars) that you can depend on start after start, so please follow our servicing instructions and feel free to call us if you need assistance, and before processing a warranty claim. If you need to process a warranty claim we can help expedite the replacement process.

Thank you for helping us provide you with the most reliable product and customer service support program that you've ever experienced! After all we want you to always specify a "Gill" for your aircraft!

Battery Type / "Gill" Part Number \_\_\_\_\_ Serial \_\_\_\_\_



**G01909814**

**"Gill" Aircraft Battery Limited Warranty Adjustment Certificate**

"Gill" Battery Part Number G-243 Serial Number G01909814

"Gill" Helpline for warranty questions and expedition authorization number \_\_\_\_\_ (provided by Teledyne "Gill")  
1(800) 456-0070 Ext 7 or 8

Description of defect: ☐ Dead Cell ☐ Won't Take Charge ☐ Shorting ☐ Won't Hold Charge

Cell Specific gravity readings 1. \_\_\_\_\_ 1. \_\_\_\_\_ 1. \_\_\_\_\_ 1. \_\_\_\_\_ 1. \_\_\_\_\_ 1. \_\_\_\_\_  
1. \_\_\_\_\_ 1. \_\_\_\_\_ 1. \_\_\_\_\_ 1. \_\_\_\_\_ 1. \_\_\_\_\_ 1. \_\_\_\_\_

Installation Date 5/29/01 Date Removed from Service \_\_\_\_\_

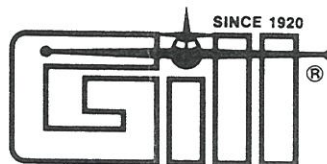
Customer Name John Guerreumont Dealer Facility Columbia Air Services, Inc.

Your Aircraft Make Mooney & Model Number M20M

Call the Warranty Helpline Prior to Submitting Your Battery for Warranty Consideration.

1 (800) 456-0070 Ext. 7 or 8 • 1 (909) 793-3131 Ext. 7 or 8

Customers located outside of the U.S., please contact your local Dealer/Distributor for Warranty Processing information or call us for help at (909) 793-3131 or FAX us with your questions at (909) 793-5818



**Battery Power  
The Striking Difference!**





**SOUTHWEST AERO, INC.**

6559 STRANDER BLVD.

## BUILDING F

**TUKWILA, WA 98188**

(206) 575-8732

P.O. #

Name \_\_\_\_\_

COLUMBIA AIR SERVICES

Address

175 TOWHIP AVE

### Time Promised

GROTON CT 06340

REPAIR ORDER INSTRUCTIONS

Oper. #

W. CAPLEY C290D

061006 n/s

# MUTAL CONTAMINATION

SUBPHASE PER MECHANICAL

C. W. K.

STAND

(Includ

## COMPLETELY OVERHAULED AND FUNCTIONAL

This component identified was repaired and inspected in accordance with current regulations of the Federal Aviation Agency and is approved for return to service.

Signed:

Date:

**SOUTHWEST AERO, INC.**

FAA REPAIR STATION NO. I06R62

X

TOTAL OUTSIDE WORK

100

N369\$  
1/3/02  
1665.5

W/O 23708 2386



**SWA**  
SOUTHWEST AERO INC

**SOUTHWEST AERO, INC.**  
659 Strander Blvd.  
Tukwila, WA 98188-2922  
FAA Repair Station No. I06R620N  
(206) 575-8732

ITEM McCAULEY PROPELLER GOVERNOR  
PART NO. C29003J/T27 SERIAL NO. 900190  
DISPOSITION COMPLETELY OVERHAULED AND  
FUNCTION TESTED GOVERNOR.

SIGNED James W. Hite DATE 10-10-01

# SERVICEABLE



# AIRCRAFT EXHAUST SYSTEMS,

REPAIR STATION #XHYR068L

New Autumn Estates Rd.  
Jumping Branch, WV 25969

CUSTOMER \_\_\_\_\_

ADDRESS \_\_\_\_\_

PHONE: 860-446 3057 RWORK CUST. PART REPAIR ☒ WT

| AIRCRAFT | PART #      | PART DESCRIPTION | WORK |
|----------|-------------|------------------|------|
| m-20m    | 430135-501C | Adapter          | Insp |

ENG. lyc T20 540 N# 3695

## MECHANIC CHECKLIST

- |                                           |                                               |    |
|-------------------------------------------|-----------------------------------------------|----|
| <input checked="" type="checkbox"/> BURRS | <input checked="" type="checkbox"/> FLANGES   | 1. |
| <input checked="" type="checkbox"/> WELDS | <input checked="" type="checkbox"/> PAPERWORK | 2. |

## MATERIAL TYPE

## ITEMS REPLACE

|                             |                 |                      |
|-----------------------------|-----------------|----------------------|
| 347 SS-FILLER               | FLANGE          | CAP                  |
| 321 SS                      | BALL JOINT      | STUDS                |
| 601/625 Inconel             | BELL JOINT      | SLIP JOINT           |
| ALUMINUM                    | TAB             | BAFFLE PLATE         |
| NEW MATERIALS INSPECTED BY: | OUTER SHELL     | TAIL-PIPE            |
|                             | INSTALL SECTION | BRACKET              |
| OUR CORE:                   | STACK OVERLAY   | DIVIDER              |
|                             |                 | WORK ACCOMPLISHED BY |

|      |                         |      |                         |        |                    |
|------|-------------------------|------|-------------------------|--------|--------------------|
| INSP | PRELIMINARY INSPECTION  | INSP | PROGRESSIVE INSPECTION  | INSP   | FINAL INSPECTION   |
|      | EXTERIOR DAMAGE         |      | INTERIOR DAMAGE         |        | CHECKED ALIGNMENT  |
|      | VIBRATION/STRESS CRACKS |      | VIBRATION/STRESS CRACKS | INSP 2 | CHECKED DIMENSIONS |
|      | OVERHEAT/BURN AREAS     |      | OVERHEAT/BURN AREAS     | INSP 2 | VISUAL INSPECTION  |
|      | DENT/BENT/MISALIGNED    |      | PRESSURE TEST           |        | REPAIR             |
|      |                         |      |                         |        | NON-REPAIR         |

SERVICE LETTERS/BULLETINS/AD'S CHECKED INSP 2

CHIEF INSPECTORS FINAL APPROVAL \_\_\_\_\_

SHIPPED 10/18/01

1/3/02

1665.5 ACTT

N369\$

SERVICEABLE

Mfgn. Movney  
Component Adapter  
Model m-20m  
Part # 630135-501C

The aircraft component identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details of the repair are on file at this repair station under Work Order No. 56365C

Date 10-18-00

Signed [Signature]

Aircraft Exhaust Systems, Inc.

P. O. Box 159

New Autumn Estates Road  
Jumping Branch, WV 25969

(304) 466-1724

FAA CERTIFICATED

REPAIR STATION NO. XHYR068L

MECH #25



# AIRCRAFT EXHAUST SYSTEMS,

REPAIR STATION #XHYR068L



New Autumn Estates Rd.  
Jumping Branch, WV 25969

CUSTOMER

Columbia Air Services,

ADDRESS

GROTON, CT. 06340.

PHONE:

860-446-3057

REWORK

CUST. PART REPAIR ☒

WT

| AIRCRAFT | PART #     | PART DESCRIPTION | WORK       |
|----------|------------|------------------|------------|
| mooney   | 630135-501 | TAILPIPE         | INSPECTION |
| m20m     |            |                  |            |

ENG. LYC T10540 N# 3695

## MECHANIC CHECKLIST

|                                |                                               |    |
|--------------------------------|-----------------------------------------------|----|
| <input type="checkbox"/> BURRS | <input checked="" type="checkbox"/> FLANGES   | 1. |
| <input type="checkbox"/> WELDS | <input checked="" type="checkbox"/> PAPERWORK | 2. |

## MATERIAL TYPE

## ITEMS REPLACED

|                             |                 |                      |
|-----------------------------|-----------------|----------------------|
| 347 SS-FILLER               | FLANGE          | CAP                  |
| 321 SS                      | BALL JOINT      | STUDS                |
| 601/625 Inconel             | BELL JOINT      | SLIP JOINT           |
| ALUMINUM                    | TAB             | BAFFLE PLATE         |
| NEW MATERIALS INSPECTED BY: | OUTER SHELL     | TAIL-PIPE            |
|                             | INSTALL SECTION | BRACKET              |
| OUR CORE:                   | STACK OVERLAY   | DIVIDER              |
|                             |                 | WORK ACCOMPLISHED BY |

|      |                         |      |                         |      |                    |
|------|-------------------------|------|-------------------------|------|--------------------|
| INSP | PRELIMINARY INSPECTION  | INSP | PROGRESSIVE INSPECTION  | INSP | FINAL INSPECTION   |
|      | EXTERIOR DAMAGE         |      | INTERIOR DAMAGE         |      | CHECKED ALIGNMENT  |
|      | VIBRATION/STRESS CRACKS |      | VIBRATION/STRESS CRACKS |      | CHECKED DIMENSIONS |
|      | OVERHEAT/BURN AREAS     |      | OVERHEAT/BURN AREAS     |      | VISUAL INSPECTION  |
|      | DENT/BENT/MISALIGNED    |      | PRESSURE TEST           |      | REPAIR             |
|      |                         |      |                         |      | NON-REPAIR         |

SERVICE LETTERS/BULLETINS/AD'S CHECKED

CHIEF INSPECTORS FINAL APPROVAL

SHIPPED

11/3/02  
1665.5 ACT

N3698

SERVICEABLE

Mfr: Mooney  
Component Tail pipe  
Model m20m  
Part # 630135-501

The aircraft component identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details of the repair are on file at this repair station under Work Order No. 5-6365

Date 10-18-01

Signed [Signature]

Aircraft Exhaust Systems, Inc.

P.O. Box 159

New Autumn Estates Road  
Jumping Branch, WV 25969

(304) 466-1724

FAA CERTIFICATED  
REPAIR STATION NO. XHYR068L



N369\$  
w/o 2370  
8 2386

11/3/02  
1665.5



SERVICEABLE

**pacific oil cooler service, inc.**

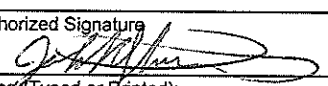
|                |                                            |            |              |
|----------------|--------------------------------------------|------------|--------------|
| PART           | <u>OIL COOLER</u>                          | SERIAL No. | <u>454</u>   |
| PART No.       | <u>10614R</u>                              | MFR.       | <u>SW</u>    |
| CUSTOMER       | <u>COLUMBIANA</u>                          | W.O. No.   | <u>30479</u> |
| WORK PERFORMED | <u>only Hanger</u><br><u>TAW MED SPECS</u> |            |              |

|           |
|-----------|
| INSP.     |
| <u>AS</u> |

**pacific oil cooler service, inc.**

9761 Klingerman Street • South El Monte, CA 91733-1728  
(626) 454-3172 • (800) 866-7335  
F.A.A. Certified Repair Station RF3R813L



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |                                                                                         |                   |                                                                                                                                                                                                                                                                                                                                                                                                               |                          |                                                         |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------------------------------------------------------------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------------------------------------|--|
| 1. Approving National Aviation Authority / Country:<br>FAA / UNITED STATES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   | 2. <b>AUTHORIZED RELEASE CERTIFICATE</b><br>FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG |                   |                                                                                                                                                                                                                                                                                                                                                                                                               |                          | 3. Form Tracking Number:<br><br>101                     |  |
| 4. Organization Name and Address:<br>Columbia Air Services, Inc.<br>175 Tower Ave<br>Groton, CT 06340                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                                                                                         |                   |                                                                                                                                                                                                                                                                                                                                                                                                               |                          | 5. Work Order, Contract, or Invoice Number:<br><br>2735 |  |
| 6. Item:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7. Description:   | 8. Part Number:                                                                         | 9. Eligibility: * | 10. Qty.:                                                                                                                                                                                                                                                                                                                                                                                                     | 11. Serial/Batch Number: | 12. Status/Work:                                        |  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | KX-155<br>Nav/Com | 069-1024-35                                                                             | TSO Article N/A   | 1                                                                                                                                                                                                                                                                                                                                                                                                             | 88212                    | REPAIRED                                                |  |
| 13. REMARKS: Repaired in accordance with King Maintenance Manual P/N 006-05179-0009, Rev 9, dated May 1999. Operational checks satisfactory.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |                                                                                         |                   |                                                                                                                                                                                                                                                                                                                                                                                                               |                          |                                                         |  |
| 14. 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><input type="checkbox"/> Non-approved design data specified in Block 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                   |                                                                                         |                   | 19. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 13<br><br>Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service. |                          |                                                         |  |
| 15. Authorized Signature:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                   | 16. Approval Authorization No:                                                          |                   | 20. Authorized Signature<br>                                                                                                                                                                                                                                                                                                |                          | 21. Approval/Certificate No:<br>SO5R204N                |  |
| 17. Name (Typed or Printed):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   | 18. Date (m/d/y):                                                                       |                   | 22. Name (Typed or Printed):<br>John R Shields                                                                                                                                                                                                                                                                                                                                                                |                          | 23. Date (m/d/y):<br>February-19-2002                   |  |
| <b>User/Installer Responsibilities</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   |                                                                                         |                   |                                                                                                                                                                                                                                                                                                                                                                                                               |                          |                                                         |  |
| <p>It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part/component/assembly.</p> <p>Where the user/installer performs work in accordance with the national regulations of an Airworthiness Authority different than the Airworthiness Authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.</p> <p>Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulation by the user/installer before the aircraft may be flown.</p> |                   |                                                                                         |                   |                                                                                                                                                                                                                                                                                                                                                                                                               |                          |                                                         |  |

| Accessories          | Make                            | Model                             | Ser.#               | Other markings                  |
|----------------------|---------------------------------|-----------------------------------|---------------------|---------------------------------|
| Alternator - ?       |                                 |                                   |                     |                                 |
| Starter -            | Lycoming R                      | 31B22105                          |                     |                                 |
| Vacuum pump          | Sigma Tech                      | <del>TU128-086</del>              |                     |                                 |
| Governor -           | Mc Cauley                       | <del>TU128</del><br>C 29003-J/127 |                     |                                 |
| Mechanical fuel pump | Romeo                           | RG-LTG 80-U                       |                     |                                 |
| Electric fuel pump - | ?                               |                                   |                     |                                 |
| Carburetor -         |                                 |                                   |                     |                                 |
| or                   |                                 |                                   |                     |                                 |
| Fuel servo -         | Precision                       | RSA 5A01                          |                     |                                 |
| Fuel divider -       | Bendix                          | AM5-4290                          |                     |                                 |
| oil cooler -         | Stewart Warner                  | 10614-R                           |                     |                                 |
| oil filter -         | <del>CH 481</del> Champion      | CH48110                           |                     |                                 |
| Left mag (ordual)    | Stock                           | 6360                              | 01101040            |                                 |
| Right mag            | Stock                           | 6360                              | <del>01101040</del> |                                 |
| plugs                | Champion                        |                                   |                     |                                 |
| Air filter assy      | None                            |                                   |                     |                                 |
| wheels               | Cleveland                       | 40-86E                            |                     |                                 |
| Auto pilot           | King                            | RFC                               | 150                 |                                 |
| Battery              | 2 Gills                         | G-243                             |                     |                                 |
| pulselites           |                                 |                                   |                     |                                 |
| strobes              | Whelen                          |                                   |                     |                                 |
| brakes               | Cleveland                       | 30-560                            |                     |                                 |
| Circuit breakers     | Kiaxon <sup>also has Blue</sup> | 110                               |                     |                                 |
| ELT                  | Artek                           |                                   |                     |                                 |
| Fuel Cells           | Integral                        |                                   |                     |                                 |
| eng. compt. hoses    | Vita flex <sup>Strate Max</sup> | 10-357                            | 210-9               |                                 |
| Ignition switch      | Bendix                          | <del>AN64</del>                   |                     |                                 |
| Altimeter            | King + Bendix                   | KEA130A                           | 2744                |                                 |
| DME                  | Bendix King                     | AN64                              |                     |                                 |
| Transponder          | <del>KT79</del> Bendix          | KT79                              |                     | Also has<br>August 5000         |
| Seat belts           | AM-Safe                         | 9600-25                           |                     | 3M storm scope<br>King 125 1965 |
| RPG                  |                                 |                                   |                     |                                 |

Mc Cauley

1-2506454

4196-00-1C

1004-10-14

99-03-05