

3. Form Tracking Number:

SECRET

42047

14 Statute/Model:

2

07-53007-0-5

and in accordance with current regulations of the United States Federal Aviation Administration and is considered ready for return

14a. ☒ 44 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13

~~in Block 12.~~

3c. Approval/Authorization No.:

100

3e. Date (dd/mm/yyyy): 14d. Name (Typed or Printed):

5/24/01

***Installer must cross check eligibility with applicable Technical data.**

970-240-9606

FAA REPAIR STATION W5R289N

CLASS 1-2-3-4

Serviceable Part Tag

Continued on p. 10

SERVICEABLE

MFG NAME S/W
 COMPONENT
 NAME CHT Probe
 MODEL 333B
 SERIAL NO or equivalent

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.

Work Order No. 072114

Overhauled Tested Repaired

Date 7-21-14

Signed B. Walkerson

For
 INSTRUMENT REBUILD
 22019 E Cloud Road
 Queen Creek, AZ 85142
 FAA STATION #IP6R621N
 480-888-9755

REMOVED: GPS antenna AT575-9UW-TNC SN 31554 PN 590-1104
 INSTALLED: GNS 480 PN: 43-6100-800-002 SN: 25701781
 Installed software upgrade to v2.3 and the GPS to v3.2 in compliance with SB 0621 Rev B, dated February 6, 2007. Function checked. FMS was provided. Weight change is negligible.
 W.O. 93001
 By: [Signature]
 Daniel R. Casey CRS# E5VF306N

Executive AutoPilots, Inc.
 5839 Freeport Blvd.
 Sacramento, CA 95822-3604

REG: N42279
 HOBBS: 3351.3

S/N: 18258940
 DATE: 7/23/09

1. Approving National/Aviation Authority/Country: FAA/UNITED STATES		2. Form Tracking Number: 603311-S	
3. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			
4. Organization Name and Address: Gibson Aviation, LLC 1821 W. Elm P.O. Box 880 El Reno, OK 73036 405-262-4880		5. Work Order/Contract/Invoice Number: 97455	
6. Item: 1	7. Description: Cylinder	8. Part Number: 649163	9. Quantity: 1
10. Eligibility: N/A		11. Serial/Match Number: 97455	12. Signature: OVERHAULED
13. Remarks: OVERHAULED USING FAA APPROVED DATA.			

SEE COMMERCIAL INVOICE FOR PARTS LISTING

14. Certify 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 13.		19. ☒ 14 CFR 43.9 Return to Service Other regulation specified in Block 13 Certifier 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: Debbie Chaloner	16. Approval/Authorization No.: AV2R704K	20. Authorized Signature: Debbie Chaloner	21. Approval/Certification No.: AV2R704K
17. Name (Typed or Printed): Debbie Chaloner	18. Date (dd/mm): 5-2-11	22. Name (Typed or Printed): Debbie Chaloner	23. Date (dd/mm): 5-2-11
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 ensure that his/her airworthiness authority accepts part/component/assembly from the airworthiness authority of the country specified in Block 1.
Statements in Blocks 14 and 19 do not constitute final/initial 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.

Aircraft Engine Test Verification

This document verifies that the engine model listed below has satisfactorily completed all testing listed below in accordance with CM standard engine testing specifications as approved by the FAA.

Engine Model R-0470R74B

Engine Serial Number 1010612

Testing Completed

Standard Acceptance Test:

Date of Completion JUL 14 2014

Test Operator

30683



Form No. 98344

Continental Motors, Inc.



Continental Motors, Inc.

THE OIL PRESSURE ON THIS ENGINE WAS ADJUSTED DURING THE ENGINE ACCEPTANCE TEST AT THE FACTORY. ONLY MINOR ADJUSTMENTS MAY BE NECESSARY TO ASSURE THE PROPER INDICATION ON THE COCKPIT GAUGE.

FACTORY SETTINGS:

RPM 2645 OIL TEMP 180 OIL PRESSURE 59.2

OIL PRESSURE PICK UP POINT: MAIN OIL GALLERY BETWEEN #2 AND #4 CYLINDERS



The Name to Remember for Aircraft Engine Parts and Service
1-800-992-48
1-405-262-48
1-405-262-29
E-mail: gibsonaviation@msn.com
Serving General Aviation Since 1970

TRAVEL TAG

Incoming Date 3-31-11 Description _____
Assigned Travel# 6033111-5 Work Order # _____
Disassemble, Clean, and Preliminary Inspection
Noted Discrepancies _____ Initial's CC
ECI # _____ J&J # _____ ACA # _____
Inspect for Cracks Cracked _____
Replace Exhaust Guide P/N SA636242 No Indication
Replace Intake Guide P/N AFEC6437106 Size PS
Replace Exhaust Seat P/N 35467 Size PS
Replace Intake Seat P/N 630591 Size STD
Reface Valve Seat Intake Exhaust
Remove/Replace Studs and Mill Exhaust Port
Ring Finish or Honing Oversize STD P010 P015 Rebarrel
F/C Nickel

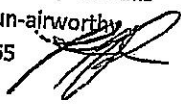
Paint and Color Code Gray Gold Black
Assemble Valve in Cylinder Intake P/N 539188 New / Serviceable
Valve, Clean, Inspect & Reface Exhaust P/N 632261 New / Serviceable
Ready for Final Inspection
Comments 10027

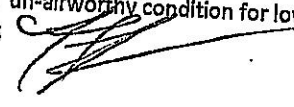
FAA Form 8130-3 (Rev. 01-12-2005)
1. Approving National Aviation Authority/Country: FAA/UNITED STATES
2. AUTHORIZED RELEASE CERTIFICATE
FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG
3. Form Tracking Number: 1870121
4. Organization Name and Address: Cessna Aircraft Company
5800 E Pawnee, Wichita, KS 67218
5. Work Order/Contract/Job Number: 790270
6. Item: 207 STOP SEAT
7. Description: 0713074-1
8. Quantity: 1
9. Quantity: N/A
10. Quantity: 1
11. Quantity: N/A
12. Quantity: New
13. Remarks: _____
14. Certificate the items identified above were manufactured in conformity to:
☒ Approved design data and is a condition for safe operation.
☐ Non-approved design data specified in Block 13.
15. Authorized Signature: _____
16. Approval/Authorization No.: 100129CE
17. Name (Typed or Printed): KENNETH E. WYSOCKI SR., ODARF
18. Date (Typed): JAN/10/2008
19. Approved/Authorized Signature: _____
20. Approved/Authorized Signature: _____
21. Approved/Authorized Signature: _____
22. Name (Typed or Printed): _____
23. Date (Typed): _____
24. Approved/Authorized Signature: _____
25. Approved/Authorized Signature: _____
26. Approved/Authorized Signature: _____
27. Approved/Authorized Signature: _____
28. Approved/Authorized Signature: _____
29. Approved/Authorized Signature: _____
30. Approved/Authorized Signature: _____
31. Approved/Authorized Signature: _____
32. Approved/Authorized Signature: _____
33. Approved/Authorized Signature: _____
34. Approved/Authorized Signature: _____
35. Approved/Authorized Signature: _____
36. Approved/Authorized Signature: _____
37. Approved/Authorized Signature: _____
38. Approved/Authorized Signature: _____
39. Approved/Authorized Signature: _____
40. Approved/Authorized Signature: _____
41. Approved/Authorized Signature: _____
42. Approved/Authorized Signature: _____
43. Approved/Authorized Signature: _____
44. Approved/Authorized Signature: _____
45. Approved/Authorized Signature: _____
46. Approved/Authorized Signature: _____
47. Approved/Authorized Signature: _____
48. Approved/Authorized Signature: _____
49. Approved/Authorized Signature: _____
50. Approved/Authorized Signature: _____
51. Approved/Authorized Signature: _____
52. Approved/Authorized Signature: _____
53. Approved/Authorized Signature: _____
54. Approved/Authorized Signature: _____
55. Approved/Authorized Signature: _____
56. Approved/Authorized Signature: _____
57. Approved/Authorized Signature: _____
58. Approved/Authorized Signature: _____
59. Approved/Authorized Signature: _____
60. Approved/Authorized Signature: _____
61. Approved/Authorized Signature: _____
62. Approved/Authorized Signature: _____
63. Approved/Authorized Signature: _____
64. Approved/Authorized Signature: _____
65. Approved/Authorized Signature: _____
66. Approved/Authorized Signature: _____
67. Approved/Authorized Signature: _____
68. Approved/Authorized Signature: _____
69. Approved/Authorized Signature: _____
70. Approved/Authorized Signature: _____
71. Approved/Authorized Signature: _____
72. Approved/Authorized Signature: _____
73. Approved/Authorized Signature: _____
74. Approved/Authorized Signature: _____
75. Approved/Authorized Signature: _____
76. Approved/Authorized Signature: _____
77. Approved/Authorized Signature: _____
78. Approved/Authorized Signature: _____
79. Approved/Authorized Signature: _____
80. Approved/Authorized Signature: _____
81. Approved/Authorized Signature: _____
82. Approved/Authorized Signature: _____
83. Approved/Authorized Signature: _____
84. Approved/Authorized Signature: _____
85. Approved/Authorized Signature: _____
86. Approved/Authorized Signature: _____
87. Approved/Authorized Signature: _____
88. Approved/Authorized Signature: _____
89. Approved/Authorized Signature: _____
90. Approved/Authorized Signature: _____
91. Approved/Authorized Signature: _____
92. Approved/Authorized Signature: _____
93. Approved/Authorized Signature: _____
94. Approved/Authorized Signature: _____
95. Approved/Authorized Signature: _____
96. Approved/Authorized Signature: _____
97. Approved/Authorized Signature: _____
98. Approved/Authorized Signature: _____
99. Approved/Authorized Signature: _____
100. Approved/Authorized Signature: _____

AIRWORTHINESS APPROVAL - PARTS. THIS FORM IS NOT AN EXPORT APPROVAL.
Cessna Aircraft Company (PCA)
5800 E Pawnee, Wichita, KS 67218
8 SEAT STOP SEAT SW210-174B
N/A
1 N/A
New

FAA Form 8130-3 (Rev. 01-12-2005)
1. Approving National Aviation Authority/Country: FAA/UNITED STATES
2. AUTHORIZED RELEASE CERTIFICATE
FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG
3. Form Tracking Number: 2934112
4. Organization Name and Address: Cessna Aircraft Company
5800 E Pawnee, Wichita, KS 67218
5. Work Order/Contract/Job Number: 1061704
6. Item: 207 STOP SEAT
7. Description: 0713074-1
8. Quantity: 1
9. Quantity: N/A
10. Quantity: 1
11. Quantity: N/A
12. Quantity: New
13. Remarks: _____
14. Certificate the items identified above were manufactured in conformity to:
☒ Approved design data and is a condition for safe operation.
☐ Non-approved design data specified in Block 13.
15. Authorized Signature: _____
16. Approval/Authorization No.: 100129CE
17. Name (Typed or Printed): KENNETH E. WYSOCKI SR., ODARF
18. Date (Typed): JAN/10/2008
19. Approved/Authorized Signature: _____
20. Approved/Authorized Signature: _____
21. Approved/Authorized Signature: _____
22. Name (Typed or Printed): _____
23. Date (Typed): _____
24. Approved/Authorized Signature: _____
25. Approved/Authorized Signature: _____
26. Approved/Authorized Signature: _____
27. Approved/Authorized Signature: _____
28. Approved/Authorized Signature: _____
29. Approved/Authorized Signature: _____
30. Approved/Authorized Signature: _____
31. Approved/Authorized Signature: _____
32. Approved/Authorized Signature: _____
33. Approved/Authorized Signature: _____
34. Approved/Authorized Signature: _____
35. Approved/Authorized Signature: _____
36. Approved/Authorized Signature: _____
37. Approved/Authorized Signature: _____
38. Approved/Authorized Signature: _____
39. Approved/Authorized Signature: _____
40. Approved/Authorized Signature: _____
41. Approved/Authorized Signature: _____
42. Approved/Authorized Signature: _____
43. Approved/Authorized Signature: _____
44. Approved/Authorized Signature: _____
45. Approved/Authorized Signature: _____
46. Approved/Authorized Signature: _____
47. Approved/Authorized Signature: _____
48. Approved/Authorized Signature: _____
49. Approved/Authorized Signature: _____
50. Approved/Authorized Signature: _____
51. Approved/Authorized Signature: _____
52. Approved/Authorized Signature: _____
53. Approved/Authorized Signature: _____
54. Approved/Authorized Signature: _____
55. Approved/Authorized Signature: _____
56. Approved/Authorized Signature: _____
57. Approved/Authorized Signature: _____
58. Approved/Authorized Signature: _____
59. Approved/Authorized Signature: _____
60. Approved/Authorized Signature: _____
61. Approved/Authorized Signature: _____
62. Approved/Authorized Signature: _____
63. Approved/Authorized Signature: _____
64. Approved/Authorized Signature: _____
65. Approved/Authorized Signature: _____
66. Approved/Authorized Signature: _____
67. Approved/Authorized Signature: _____
68. Approved/Authorized Signature: _____
69. Approved/Authorized Signature: _____
70. Approved/Authorized Signature: _____
71. Approved/Authorized Signature: _____
72. Approved/Authorized Signature: _____
73. Approved/Authorized Signature: _____
74. Approved/Authorized Signature: _____
75. Approved/Authorized Signature: _____
76. Approved/Authorized Signature: _____
77. Approved/Authorized Signature: _____
78. Approved/Authorized Signature: _____
79. Approved/Authorized Signature: _____
80. Approved/Authorized Signature: _____
81. Approved/Authorized Signature: _____
82. Approved/Authorized Signature: _____
83. Approved/Authorized Signature: _____
84. Approved/Authorized Signature: _____
85. Approved/Authorized Signature: _____
86. Approved/Authorized Signature: _____
87. Approved/Authorized Signature: _____
88. Approved/Authorized Signature: _____
89. Approved/Authorized Signature: _____
90. Approved/Authorized Signature: _____
91. Approved/Authorized Signature: _____
92. Approved/Authorized Signature: _____
93. Approved/Authorized Signature: _____
94. Approved/Authorized Signature: _____
95. Approved/Authorized Signature: _____
96. Approved/Authorized Signature: _____
97. Approved/Authorized Signature: _____
98. Approved/Authorized Signature: _____
99. Approved/Authorized Signature: _____
100. Approved/Authorized Signature: _____

1. Approving National Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG		3. Form Tracking Number:	
4. Organization Name and Address: Berkshire Instrument 68611 LaSalle Road Montrose, CO 81401 United States FAA Repair Station VV5R289N				5. Work Order/Contract/Invoice Number: 39882	
6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:
	ATT. GTR	RGA 2614-1		1	3561
12. Status/Work:		OK			
13. Remarks: THE WORK ORDER REFERENCED DESCRIBES THE ACTUAL WORK PERFORMED. ALL WORK PERFORMED I.A.W. MANUAL. 8-28-1972 1-BL 14400 CTP- RGAH- 20 IN The work specified in Block 12/13 was carried out in accordance with current regulations of the United States Federal Aviation Administration and is considered ready for return to service.					
14. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in condition for safe operation. ☐ Non-approved design data specified in Block 13.					
15. Authorized Signature:		16. Approval/Authorization No.:		19. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13	
17. Name (Typed or Printed):		18. Date (m/d/y):		20. Authorized Signature:	
				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.	
22. Name (Typed or Printed):		23. Date (m/d/y):		21. Approval/Authorization No.:	
CHRISTIE		8-28-12		VV5R289N	

7/9/2014 ~~N42174~~ IT 5755.4 TACH 3659.4 Inspected aircraft per scope and detail of CFR 43 appendix D. Inspected gascolator and found clean. Replaced air filter with new. CW AD 11-10-09 (seat track) Rev 6/17/11 CW by inspection per para "g", due again at TT 3759.4 or annual 2015. AD 76-07-12R1 rev date 08/30/77 complied with by operation of ignition switch, due again 100 hours from this inspection. AD 96-12-22 rev 7/31/96 by inspection of torque putty. See separate list for other AD's. I certify that this aircraft has been inspected IAW an annual inspection and has been determined to be in un-airworthy condition for low compression on cylinders 1 and 4. Lawrence F. Johnson A&P/IA 3486165 

7/9/2014 Total time since new TACH 3659.4 TSMOH and total time 1314.1 Mag timing good, Comp check 40-60-66-20-72-72 over 80. Cleaned and gapped plugs as required. Oil not changed at this time, previously changed 30 hours prior. I certify that this engine has been inspected IAW an annual inspection and has been determined to be in un-airworthy condition for low compression on cylinders 1 and 4. Lawrence F. Johnson A&P/IA 3486165 



ALTS-3800 Computerized Test Report

P/N: DOFF10300JR
S/N: H-0061137
W/O: M380110
Description: OH ALT 15V 60A

PASS
6/25/2014 11:31

This alternator has an external voltage regulator, SOME PARAMETERS DO NOT APPLY.

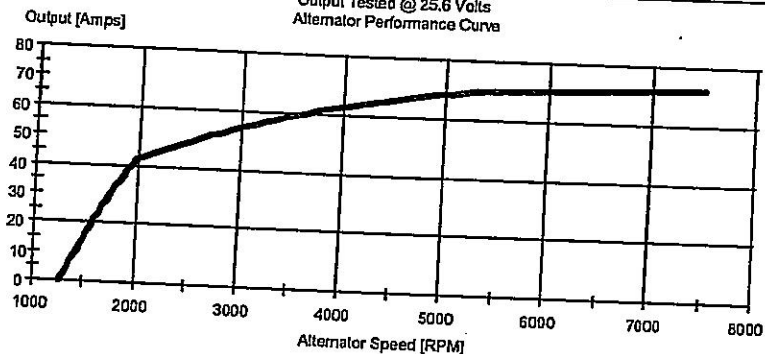
Test Results Table:

Maximum Alternator Output:	Amps	72.14
Maximum Output Power:	Watts	1080
Leakage Current	mAmps	.000228
Ripple Current	Amps	8.810
Alternator Turn On Speed	RPM	1271
Field Current	Amps	3.782

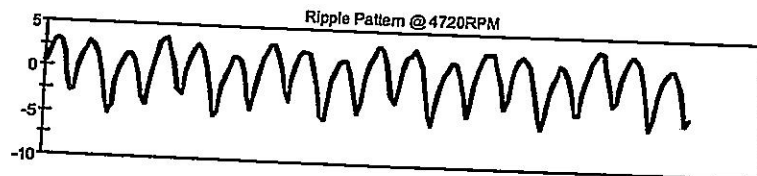
Output Current Table:

Output Current at 1800 RPM	Amps	36.02
Output Current at 2000 RPM	Amps	42.45
Output Current at 3600 RPM	Amps	64.24
Output Current at 5400 RPM	Amps	69.73
Output Current at 7500 RPM	Amps	72.14
Output Current at 7500 RPM	Amps	0.0
Output Current at 0 RPM	Amps	0.0
Output Current at 0 RPM	Amps	0.0

Output Tested @ 25.6 Volts
Alternator Performance Curve



Ripple Pattern @ 4720 RPM



CENTURY INSTRUMENT CORP.
4440 SOUTHEAST BOULEVARD
WICHITA, KS 67210

WORK ORDER NO. K 135891

DATE 1-21-90

NAME Horizon	PART NO. KCH 22-7
MANUFACTURER Allen	SERIAL NO. 902762
CUSTOMER Tucker Air Repair	CUSTOMER PS/PO

REPORTED DEFECT	SENT IN FOR WARRANTY ☐
	OVERHAUL ☒
	REPAIR ☐
	FUNCT. TEST ☐

PRELIM. INSP.

No Visible Damage BY: Sull

WORK INSTRUCTIONS

☐ QUOTE AND HOLD	☒ OVERHAUL	☐ REPAIR	☐ FUNCT. TEST ONLY	☐ PERFORM WORK NOTED BELOW
---	--	---------------------------------	---	---

INTERNAL DEFECTS OR HIDDEN DAMAGE Rough Bearings, noisy rotor

WORK DONE:	☒ OVERHAULED OR	☐ REPAIRED	BY: R.A.
			IN ACCORDANCE WITH MFRS SPEC. — OR AS NOTED:

CHANGED PARTS LISTED BELOW CAL. RT. 1350 12-86

QTY.	NAME	PARTS	PART NO.	TEST RESULTS
1	ROTOR ASST		505-0002-001	
2	BEARINGS		C-24	
1	BEARING		C-21	
1	BEARING		C-15	

R. R.
TECHNICIAN

THIS ITEM IS AIRWORTHY

INSPECTION/REPAIRMAN

3266602

CERTIFICATE NUMBER

1-27-10

DATE

FORM-11

FOR REPAIR STATION NO. CRSTJ2R189L

P.O. BOX 4000 • 225 AIRPORT CIRCLE, CORONA, CA 92878-4000
AIRCRAFT SPRUCE WEST: CORONA, CA • AIRCRAFT SPRUCE EAST: PEACHTREE CITY, GA
ADMINISTRATION (951) 372-9555 • FAX (951) 372-0555
CALL TOLL FREE (877) 4-SPRUCE (877) 477-7823

PAGE: 1 462979
CUST: 459189

459189
SAMUEL G TUCKER
1900 PLUM LANE
TRACY, CA 95376

SHIP TO
SAMUEL TUCKER
1900 PLUM LANE
TRACY, CA 95376

NOTE: ANY SHORTAGES MUST BE REPORTED WITHIN 10 DAYS.

BACKORDERED PRODUCTS WILL SHIP AS SOON AS AVAILABLE.

WAIVER OF LIABILITY AND INDEMNIFICATION AGREEMENT-Inasmuch as Aircraft Spruce & Specialty Company has no opportunity to supervise the installation, or maintenance of parts supplied by it, no opportunity to participate in the design or manufacture of the products it sells or of the various homebuilt and certificated aircraft in which its parts are utilized, the purchaser, by placing this order with Aircraft Spruce & Specialty Company and accepting the parts, agrees that all materials purchased will be used solely at purchaser's risk and that the purchaser will indemnify and hold Aircraft Spruce & Specialty Company, its owners and employees, free and harmless from all loss, liability, and damage resulting from claims brought by reason of any alleged failure or defect of any parts or parts supplied by Aircraft Spruce & Specialty Company. If this agreement is unacceptable to purchaser, the purchaser will immediately return in new condition all products listed on this invoice to Aircraft Spruce for refund of purchase price.



Sam Tucker
1900 Plum Lane
Tracy, CA 95376
925-640-3690

Invoice No.

511003

3688.9
3659.5
9.4

INVOICE

Customer

Name Rick Mann
Address _____
City _____ State _____ ZIP _____
Phone _____

Date 5/23/2011
Order No. _____
Aircraft n42279

QTY.	Description	Rate	TOTAL
1	Annual Inspection		
15	Removed and replaced #1 cyl. due to low compression	\$200.00	\$200.00
	Replaced muffler due to collapsed baffle	\$35.00	\$525.00
	Replaced left main tire		
	Replaced right main brake linings		
	Changed oil and filter		
	Replaced loose rivets on upper cowling		
	Replaced battery		
	Parts Invoices: \$491.25 Muffler, \$233.60 battery, \$738.31 cylinder, \$27.55 Piston cleaning solvent, \$24.39 Hardware and hose (AC Spruce order 446352) \$25.85 Brake Linings (order 428084) \$52.37 Intake hoses (Skyranch order 509580)		

Payment Details

- ☐ Cash
☒ Check
☐ Credit Card

Name _____
CC # _____
Expires _____

SubTotal	
Parts	\$1,593.32
Taxes	
TOTAL	\$2,318.32

Office Use Only

*Airworthiness is determined to be at the time of inspection only. Continuing
airworthiness is the responsibility of the owner or pilot-in-command!*

Thanks for your business



Sam Tucker
1900 Plum Lane
Tracy, CA 95376
925-640-3690

Invoice No. 420001

INVOICE

Customer

Name Rick Mann
Address _____
City _____ State _____ ZIP _____
Phone _____

Date 4/19/2020
Order No. _____
Aircraft N42279

QTY.	Description	Rate	TOTAL
1	Annual Inspection	\$250.00	\$250.00
1	IA Fee- T Data	\$50.00	\$50.00
1	Install new LED landing and taxi light	\$50.00	\$50.00
2.5	Replace flap microswitches at selector	\$50.00	\$125.00
3.5	Remove and replace muffler	\$50.00	\$175.00
3	Replace EGT and CHT terminals, left side of engine	\$50.00	\$150.00
0.5	Free up Cabin heat cable by disconnecting, lubing	\$50.00	\$25.00
1	TIGHTEN & SECURE ALTERNATOR	\$50.00	\$50.00

Payment Details

- ☐ Cash
☒ Check
☐ Credit Card

Name _____
CC # _____
Expires _____

SubTotal	
Taxes	
Parts	
TOTAL	875
	\$825.00

Office Use Only

+ 16 HRS GUN
+ 18 WIRE WRAP

~~\$859~~
\$909.00

Airworthiness is determined to be at the time of inspection only. Continuing airworthiness is the responsibility of the owner or pilot-in-command!

Thanks for your business

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

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

This Certificate issued to **Number** SA1662CE
Aircraft Development Co.
1220 Red Oak Ct.
Troy, MO 63379

This Certificate issued to **Number** SA1666CE
Aircraft Development Co.
1220 Red Oak Ct.
Troy, MO 63379

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified herein meets the airworthiness requirements of Part 3 of the Civil Air Regulations effective May 15, 1956, as amended by 3-1 through 3-5.

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified herein meets the airworthiness requirements of Part 3 of the Civil Air Regulations effective November 1, 1949, plus amendments listed in the type certificate data sheet

Original Product Type Certificate Number: 3A24
Make: Cessna
Model: 185, 185A, 185B, 185C, 185D, 185E, 185F, 185P

Original Product Type Certificate Number: SAG
Make: Cessna
Model: 180, 180A, 180B, 180C, 180D, 180E, 180F, 180G, 180H, 180J, 180K

Description of Type Design Change:
Installation of strut/wing and strut/fuselage fairings, lightning hole covers, and aerodynamic putty per Aircraft Development Co. Drawing List No. 118-1 with an FAA approval date of July 31, 1981, or later.

Description of Type Design Change: Installation of strut/wing and strut/fuselage fairings, lightning hole covers, and aerodynamic putty per Aircraft Development Co. Drawing List No. 118-1 with an FAA approval date of July 31, 1981, or later.

Limitations and Conditions: Compatibility of this design change with previously approved modifications must be determined by the installer.

Limitations and Conditions: compatibility of this design change with previously approved modifications must be determined by the installer.

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

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

Date of application: June 17, 1981
Date of issuance: July 31, 1981

Date received: January 27, 1983;
January 30, 1996
Date amended:

Date of application: June 17, 1981
Date of issuance: July 31, 1981

Date received: January 27, 1983;
January 30, 1996
Date amended:



By direction of the Administrator
Ronald K. Rathgeber
(Signature)
Ronald K. Rathgeber
Asso. ACO Mgr. Airframe & Services
Wichita Aircraft Certification Office
(Title)



By direction of the Administrator
Ronald K. Rathgeber
(Signature)
Ronald K. Rathgeber
Asso. ACO Mgr. Airframe & Services
Wichita Aircraft Certification Office
(Title)

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

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

FAA Form 8130-2 (10-65)

FAA Form 8130-2 (10-65)

This certificate may be transferred in accordance with FAR 21.47.

This certificate may be transferred in accordance with FAR 21.47.

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

This certificate issued to **Number** SA1667CE
Aircraft Development Co.
1220 Red Oak Ct.
Troy, MO 63379

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified herein meets the airworthiness requirements of Part 3 of the Civil Air Regulations effective November 1, 1949, as amended 3-1 through 3-12, except for Airplane Model 182S which meets Part 23 of the Federal Aviation Regulations effective February 1, 1965, as amended by 23-1 through 23-6.

Original Product Type Certificate Number: 3A13
Make: Cessna
Model: 182, 182A, 182B, 182C, 182D, 182E, 182F, 182G, 182H, 182J, 182K, 182L, 182M, 182N, 182P, 182Q, 182R, 182S, R182, T182 and TR182

Description of Type Design Change:
Installation of strut/wing and strut/fuselage fairings, lightning hole covers, and aerodynamic putty per Aircraft Development Co. Drawing List No. 118-1 with an FAA approval date of July 31, 1981, or later.

Limitations and Conditions: Compatibility of this design change with previously approved modifications must be determined by the installer.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator

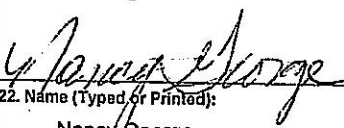
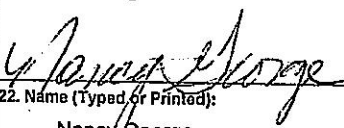
Date of application: June 17, 1981
Date of issuance: July 31, 1981
of the Federal Aviation Administration.

Date received: July 2, 1982,
December 17, 1996
June 23, 2000
Date amended:

By direction of the Administrator

Ronald K. Rathgeber
(Signature)
Ronald K. Rathgeber
Associate ACO Manager, Airframe & Services
Wichita Aircraft Certification Office



1. Approving National Aviation Authority/Country FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: 006916	
4. Organization Name and Address: Century Instrument Corp. 4440 Southeast Blvd. Wichita, Ks 67210 316-683-7571						5. Work Order/Contract/Invoice Number: K135891	
6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:	
1	Horizon Gyro	RCA22-7	Various	1	902762	OVERHAULED	
13. Remarks: Unit identified was overhauled and or functional tested in accordance with manufacturer. Procedure book number To 1350 Rev 12-1986							
14. Certifies the items identified above were manufactured in conformity to: ☒ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13.				19. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
16. Authorized Signature: 		18. Approval/Authorization No.: 		20. Authorized Signature: 		21. Approval/Certificate No.: TJ2R189L	
17. Name (Typed or Printed): 		18. Date (m/d/y): 		22. Name (Typed or Printed): Nancy George		23. Date (m/d/y): Jan/27/2010	
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.							



NO. 118-7

REVISION A

APPROVED BY

DATE _____

[illegible]

AIRCRAFT DEVELOPMENT
1220 RED OAK COURT
TROY, MO 63379

Title: Installation procedure-Fairing kit, Cessna

Page 1 of 4

No. 118-7

Issue Date 4/10/94

Rev. A

1.0 PURPOSE

To explain the installation procedure for this kit in the safest, most cost and time effective manner.

2.0 SCOPE

This procedure is applicable to all kits sold by Aircraft Development with the kit numbers having the digits 118-X2 or 118-1X2. These kits consist of wing strut fairings developed by Aircraft Development that are replacement fairings for Cessna fairings. They are different than most Cessna fairings in that they are split fairings, that allow the installation of the fairings without the need of disconnecting the lift strut from the wing. They are also made of fiberglass which makes for a much stronger and easily repairable fairing.

3.0 GENERAL

All work must be accomplished per Aircraft Development Installation Procedure 118-7, AC 43.13-1 and Cessna's Service manual for the appropriate model aircraft.

4.0 INSTALLATION PROCEDURE

4.1 Wing strut fairings are applicable to Cessna models 150, 152, 170, 172, 175, 180, 182, 185, 205, 206.

4.2 Spread fairings apart and slip over lift strut until flanges are next to aluminum skin and aligned properly to the strut, and with the seam in the fairing properly seated and closed. CAUTION to prevent damage to the fairing during installation please be sure to do the following: do not spread the fairing further apart than is necessary to slip it over the lift strut. Preheat the fairing by some suitable means to a temperature of approximately 125 degrees F (quite warm to the touch). This will make the fairing much more pliable and safe to spread apart twist and bend. Drill #29 pilot holes through fairings at the locations where the mounting screws attach the fairing to the aircraft. NOTE: on some aircraft the screw locations that mount the fairing to the aircraft may not line up with the screw indentations on the fairings. This is because of production tolerances on the screw locations at Cessna Aircraft. Be careful not to move the fairing during the drilling operation. At the fairing seam drill #19 holes through both outer skin and inner flange. See figures 1 and 2 plus table 1 for specific information on fairing installation.

4.3 Use the parts list supplied with this kit to determine which fairing gets placed where. For example the parts list gives both the Aircraft Development part number for the fairing, and the Cessna part number for the fairing being replaced. Also given is a descriptive name for the fairing that gives the fairing's location, such as Fairing-wing/strut R.H. Then select the Fairing-wing/strut R.H. by selecting the fairing with the proper fairing part number. The fairing part number is marked on the inside of the fairing. In this way the location of the fairing was identified as the R.H. wing to strut fairing. Use this procedure to identify the remaining fairings.

AIRCRAFT DEVELOPMENT
1220 RED OAK COURT
TROY, MO 63379

Title: Installation procedure-Fairing kit, Cessna

Page 2 of 4

Issue Date 4/10/94

Rev. A

No. 118-7

- 4.4 Remove the fairings from the lift strut and for every place there is a #29 pilot hole redrill the pilot holes with a #19 finish size hole.
- 4.5 Slip the tinnerman nuts provided onto the inner flange of the seam. It may be necessary to grind a small portion of the inner flange away to get the tinnerman nut aligned with the drilled hole in the outer skin.
- 4.6 Install the wing strut fairings back onto the wing struts using the original Cessna provided mounting screws along with the tinnerman nuts and the AN530-8R6 screws provided by Aircraft Development for the fairing seam. Note: On some model aircraft it may be necessary to trim a small portion of the fairing away to clear an obstruction. On fairing 118-4-24 &-25 make sure the AN530-8R6 screws are not impinging on the lift strut.

5.0 GENERAL INFORMATION

- 5.1 Check all work to see that it has been properly accomplished.
- 5.2 It is recommended that the fairings be painted to match the exterior of the aircraft.
- 5.3 Make entry on back page of form 337 as follows: Installed Aircraft Development's fairing kit in accordance with Aircraft Development installation procedure 118-7 approved by STC (attached).

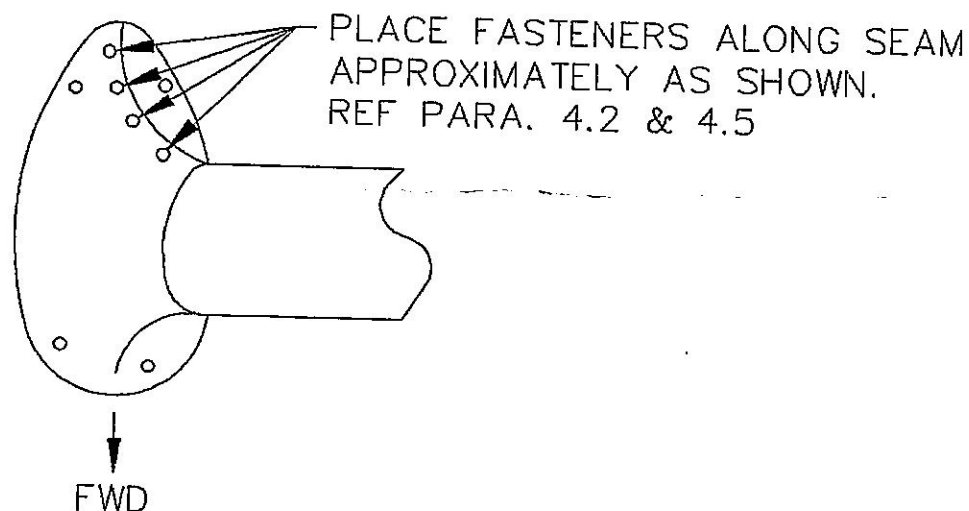
TABLE -1	
FAIRING NUMBER	APPLICABLE FIGURE
118-4-24 118-4-25 118-4-34 118-4-35	FIGURE 1
ALL OTHER FAIRINGS	FIGURE 2

AIRCRAFT DEVELOPMENT
1220 RED OAK COURT
TROY, MO 63379

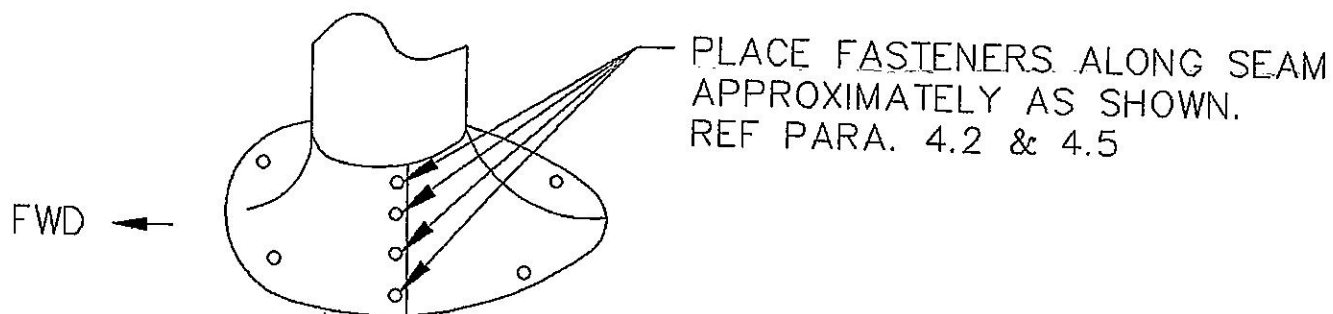
Title: Installation procedure-Fairing kit, Cessna

No. 118-7

Page 3 of 4
Issue Date 4/10/94
Rev.



VIEW LOOKING UP AT
BOTTOM OF LEFT WING,
STRUT WING INTERSECTION.
RIGHT WING OPPOSITE.



LEFT HAND VIEW LOOKING
INBOARD AT STRUT
FUSELAGE INTERSECTION.
RIGHT SIDE OPPOSITE.

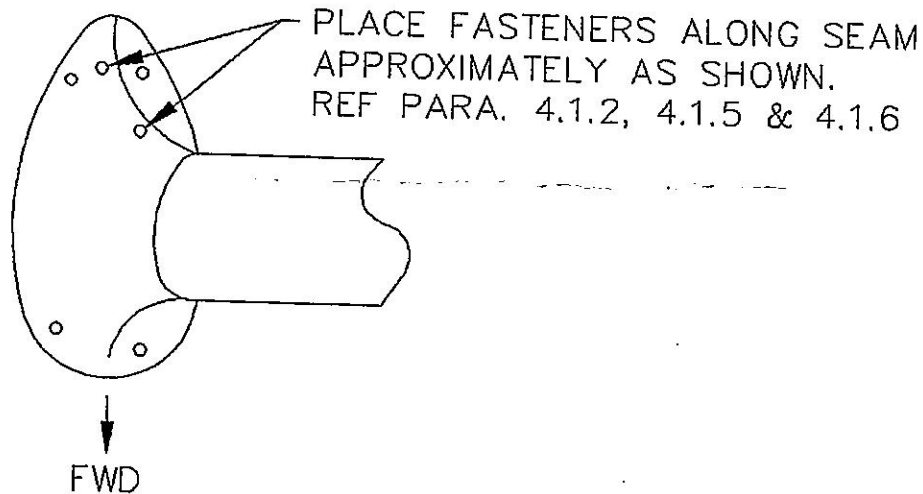
FIGURE 1

AIRCRAFT DEVELOPMENT
1220 RED OAK COURT
TROY, MO 63379

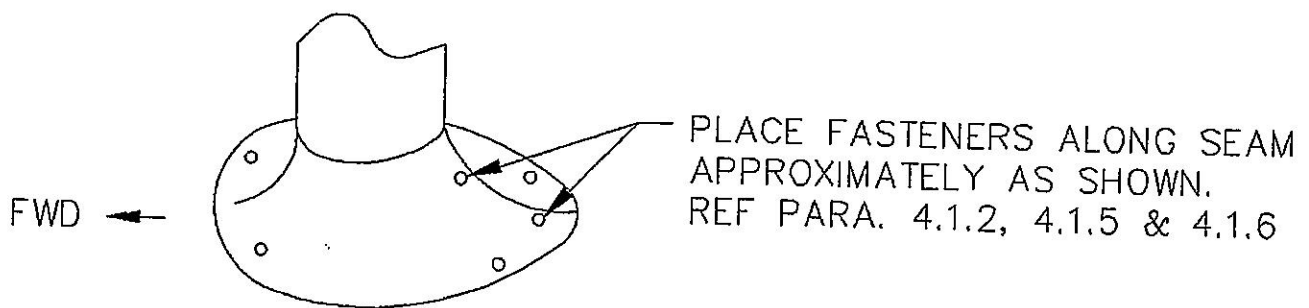
Title: Installation procedure-Fairing kit, Cessna

No. 118-7

Page 4 of 4
Issue Date 4/10/94
Rev.



VIEW LOOKING UP AT
BOTTOM OF LEFT WING,
STRUT WING INTERSECTION.
RIGHT WING OPPOSITE.



LEFT HAND VIEW LOOKING
INBOARD AT STRUT
FUSELAGE INTERSECTION.
RIGHT SIDE OPPOSITE.

FIGURE 2

**Berkshire Instrument**

68611 LaSalle Road

Montrose, CO 81401

Phone 800-443-0083 Fax 970-240-9643

Ship To: Invoice #: 00019437

Bill To:

RICK MANN
2273 AMERICAN AVE.
HAYWARD, CA 94545

RICK MANN
2273 AMERICAN AVE.
HAYWARD, CA 94545

SALESPERSON		P.O. #	SHIP VIA	SHIP DATE	TERMS		DATE	
KALENA			UPS 3DAY		Prepaid		10/1/2012	
QTY.	ITEM NO.	DESCRIPTION		PRICE	UNIT	DISC	EXTENDED	TX.
1	OH/L ATT ELEC	ATT ELEC. RCALLEN		\$610.00	EA		\$610.00	
	PN / SN:	PN: RCA26AK-1 SN:3561						
	WORK ORDER	39882						
1	#1 REG.	HANDLING		\$10.00	EA		\$10.00	
We appreciate your business!								
Overhauls have a one year warranty, repairs have a 30 day warranty. Visible damage from shipping must be reported within 48 hours of receipt. Undamaged instruments returned within 30 days will be issued a credit memo towards future purchase. <i>Instruments returned for warranty service or for credit must be packed in at least 3" of foam packing material and must be shipped by UPS, FED EX, or DHL air service. Shipments sent by Ground Service or U.S. Postal service will VOID your WARRANTY!</i> Exchange Cores are subject to inspection before being accepted. We reserve the right to refuse any unacceptable core. If your core is refused a charge will be made. <i>Exchange cores that have not returned within 30 days will be charged a core charge on the the credit card used for the purchase. Exchange cores returned later than 30 days from invoice date will be issued a credit memo that will be held for 1 year.</i>					SALE FREIGHT TOTAL PAID BALANCE		\$620.00 \$17.00 \$637.00 \$637.00 \$0.00	

Berkshire Instrument Overhaul

68611 E. LaSalle Road
Montrose, CO 81401

39882

WORK ORDER

FAA REPAIR STATION VV5R289N

INSTRUMENT CLASS 1-2-3-4

1. CUSTOMER Rich Marshall
2. INSTRUMENT ATT 150
3. MFG. Reich
4. PART NO. 11026-01-1
5. SERIAL NO. 3561
6. RECEIVED _____
7. DUE _____

8. WORK TO BE PERFORMED

OVERHAUL _____
REPAIR _____
FUNCTIONAL TEST _____
COMMENTS/DISCREPANCY _____
Reich 11026-01-1
11026-01-1
Reich 11026-01-1

9. INSPECTION RESULTS:

INSPECTOR
SIGNATURE

PRELIMINARY sig
HIDDEN DAMAGE chk. done
FINAL sig

PARTS USED

QTY. PN _____
1 - 11026-01-1, 11026-01-1
Reich 11026-01-1 9-27-12
2 - 11026-01-1, 11026-01-1

TEST / READING

ALLOWABLE
ERROR

TEST / READING

ALLOWABLE
ERROR

CLEAN / REPAIR

ROTOR

TAILSHAFT ASSY

VANES

SEALS

GIMBAL ASSY

PITCH BAR ASSY

SCORSBY TEST

SETTLING 2'

PITCH 180

AIR / VAC

Hyst. N/A Friction OK Leakage OK
Cal. Spec N/A Equip. Used SCORSBY JIGS
Pub. Used PN 11026-01-1 REPAIRMAN sig
INSPECTOR sig Completed Date 9-29-12

☒ OVERHAUL

☐ REPAIR

☐ FUNCTIONAL TEST

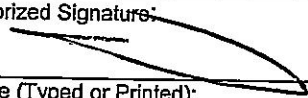
The Aircraft Appliance identified above was overhauled, repaired, or functional tested as per block above in accordance with current Federal Aviation Administration Regulations and is approved for return to service. Details for this component are on file at this agency under work order number above.

Signature _____

Date 9-29-12

1. Approving National Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: 0072512318-00001	
4. Organization Name and Address:		Hawker Beechcraft Corporation 801 Industrial Blvd, Suite 100 Grapevine, TX 76051			FAA Production Certificate No. 8		5. Work Order/Contract/Invoice Number: 0001823829-000030
6. Item	7. Description	8. Part Number	9. Eligibility *	10. Quantity	11. Serial/Batch Number:	12. Status/Work	
0001	PIN, STRAIGHT HEAD, DRILLED SHANK	MS20392-1C21	N/A	2.000	N/A	NEW	
13. Remarks: AIRWORTHINESS APPROVAL - PARTS.							
14. Certifies the items identified above were manufactured in conformity to: ☒ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13.				19. ☐ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with 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: <i>Randy R Malcolm</i>		16. Approval/Authorization No.: ODA-230339-CE		20. Authorized Signature:		21. Approval/ Certificate No:	
17. Name (Typed or Printed): RANDY MALCOLM		18. Date (m/d/y): JAN/11/2011		22. Name (Typed or Printed):		23. Date (m/d/y):	
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 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.							

1. Approving Civil Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: QAA# WO1170015884	
4. Organization Name and Address: Quality Aircraft Accessories Inc. (QYIR334Y) 5746 East Apache Tulsa, OK 74115				Phone: 1-877-833-6948 918-835-6948 Fax: 918-835-2804		5. Work Order/Contract/Invoice Number: WO1170015884	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:		
1	GOVERNOR	210345	1	2008111J/LN	OVERHAULED		
12. Remarks: S/B'S 33526, 33527, 33531, 33549, 33571, 33580M MANUAL # 33002, 33201 ISSUE DATE: 06/01 Certifies that the work specified in Block 11/12 was carried out in accordance with EASA Part 145 and in respect to that work the article is considered ready for release to service under EASA Part 145 approval no EASA 145.5982 See Attached Work Order Summary for details. (2) pages (MECH: DLR)							
13a. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 12.				14a. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 12 Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
13b. Authorized Signature:		13c. Approval/Authorization No.:		14b. Authorized Signature: <i>Matthew Kelley</i>		14c. Approval/Certificate No.: QYIR334Y	
13d. Name (Typed or Printed):		13e. Date (dd/mm/yyyy):		14d. Name (Typed or Printed): <i>Matthew Kelley</i>		14e. Date (dd/mm/yyyy): 18/JUL/2014	
User/Installer Responsibilities							
It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1. Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.							

1. Approving National Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG					3. Form Tracking Number: RMA 109314	
4. Organization Name and Address GARMIN AT INC. 2345 Turner Road S.E. Salem, Oregon 97302 (CRS/JC6R634N)							5. Work Order/Contract/Invoice Number: RMA 109314	
6. Item:	7. Description:	8. Part Number:	9. Eligibility:	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:		
1.	GNS480(CNX80)	430-6100-800-002 HW Mod ABCDEFGHKMNR SW Mod E	N/A	ONE	25701781	REPAIRED		
13. Remarks APPROVAL FOR RETURN TO SERVICE All work performed was in accordance with FAA approved data. The work order detailing the actual work performed is attached or on file at GARMIN AT Inc. Work performed, with reference to Factory Service Manual P/N 560-7027-001, REV B, Dated Nov.09, 2004 Previously Complies with GARMIN Service Bulletin No. 0411, Rev: A								
14. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in condition for safe operation. ☐ Non-approved design data specified in block 13.					19. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with 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: 		21. Approval/Certificate No.: CRS/JC6R634N	
17. Name (Typed or Printed):			18. Date:		22. Name (Typed or Printed): MATTHEW T. VAN HATTEN		23. Date(m/d/y) FEB/18/2008	
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 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.								



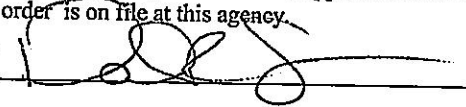
WORK ORDER

BILL TO:
RICK MANN 5611 STARBOARD DR DISCOVERY BAY, CA 94505

DATE 7/23/2009	WORK ORDER NO. 9300
REG. 42279	MAKE CESSNA
MODEL 182L	SERIAL NUMBER 18258940

TERMS: CASH	HOBBS: 3351.3
-------------	---------------

Please pay from Work Order
No Invoice will be sent

ITEM	DESCRIPTION	QTY	RATE	AMOUNT
*GNS-480 DS1	GNS-480, PN:43-6100-800-002; SN:25701781 DS1: UPGRADE GNS 480 SOFTWARE TO 3.2. Removed GPS antenna AT575-9UW-TNC SN 31554 PN 590-1104 and installed AT575-332G PN: 013-00261-00 SN:5940. System function tested good.	3	0.00 110.00	0.00T 330.00
RG-400 RFT1218-C1 31-320-RFX	CABLE, COAX, RG-400 TNC Right Angle Crimp Connector for RG 142 CONNECTOR, BNC, MALE, CRIMP, RG- 58, 141, 142A	14 1 1	3.00 20.15 3.62	42.00T 20.15T 3.62T
Warranty-vendor	WARRANTY LABOR, VENDOR	3	-110.00	-330.00
IN1	INSTALLATION LABOR 1: New RG400 Coax was required to meet installation manuals requirements.	4	90.00	360.00
CERT	***** CERTIFICATION FAA Approved Repair Station No. E5VR306N The aircraft and/or component identified above was inspected in accordance with current FAA regulations and is approved for return to service. A copy of this work order is on file at this agency.  DATE <u>7/23/09</u> *****			0.00
	CALIF SALES TAX		8.75%	5.75

THANK YOU, WE REALLY APPRECIATE YOUR BUSINESS.
*****NOTHING FOLLOWS*****

Total	\$431.52
--------------	-----------------



Eagle Fuel Cells
617 Skylane Taxiway
Eagle River, WI 54521 USA

Tel: 715-479-6149

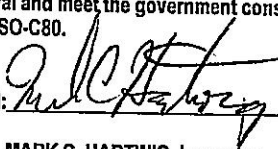
Invoice

DATE	INVOICE #
3/13/2018	45586

BILL TO
RICHARD MANN 400 TORRINGTON DR BRENTWOOD, CA 94513

SHIP TO
RICHARD MANN 400 TORRINGTON DR BRENTWOOD, CA 94513

PAID

CUSTOMER P.O. #		TERMS	REP	SHIP DATE	SHIPPED VIA	F.O.B.	
N42279		CREDIT CARD	KCH	3/13/2018	FEDEX 2DAY	EAGLE RIVER	
QTY	ITEM CODE	WORK ORDER	DESCRIPTION			PRICE EACH	AMOUNT
1	720CM DISCOUNT	N0309180011	CESSNA MODIFIED STC SA01380CH FUEL DRAIN VALVE KIT S/N C 1784 SPECIAL DISCOUNT			199.00	199.00
1	LR-23E		P/N1200065-23E (1200065-23) CESSNA LH FUEL CELL ETC EMS7 S/N 977			-10.00	-10.00
	5YRWARRANTY		FIVE YEAR WARRANTY			1,021.00	1,021.00
1	KIT 0		INSTALLATION KIT INCLUDED				0.00
	SHIPPING		SHIPPING & HANDLING			0.00	0.00
	VISA		PAYMENT BY VISA			88.00	88.00
	CofC		***CERTIFICATE OF CONFORMANCE*** I hereby certify that the parts above listed, shipped herewith under the purchase order mentioned above, are in conformance with the requirements applicable to that order. Where parts listed above have been procured by us from vendors, we certify that suitable evidence of compliance with the requirements of the above mentioned purchase order have been obtained by us and are available from our files. New fuel cells are fabricated in accordance with FAA PMA or O.E.M. approval and meet the government construction standard for flexible fuel cells TSO-C80.			-1,258.00	
			Signed:  Date: 03/13/2018				0.00
			Name: MARK C. HARTWIG Inspector Out-of-state sale, exempt from sales tax			0.00%	0.00
THANK YOU FOR YOUR ORDER. Returns subject to a restocking fee.						Total	\$0.00

WEBSITE www.eaglefuelcells.com

Mark@eaglefuelcells.com

Berkshire Instrument Overhaul

2129 SE 11th Avenue
Cape Coral, FL 33990

43943

WORK ORDER

FAA REPAIR STATION VV5R289N

INSTRUMENT CLASS 1-2-3-4

1. CUSTOMER Rich Mann
2. INSTRUMENT ATT (Lenses)
3. MFG. Beckman 5" Electro 11/001
4. PART NO. 7CA 26 AK-1
5. SERIAL NO. 11K6581
6. RECEIVED _____
7. DUE _____

8. WORK TO BE PERFORMED

☒ OVERHAUL
☐ REPAIR
☐ FUNCTIONAL TEST
COMMENTS/DISCREPANCY
End of work

9. INSPECTION RESULTS:

INSPECTOR
SIGNATURE

PRELIMINARY / HIDDEN DAMAGE

Comp

FINAL Beckman 5" Electro 11/001
Comp. by Rich Mann

PARTS USED

QTY. PN

1 347-007-0. B.
2 15442700 1/13

TEST / READING

ALLOWABLE
ERROR

ROTOR

VANES

SEAL/ SLIP RINGS

PITCH BAR ASSY

GIMBAL ASSYS

8- Test

TEST / READING

SCORSBY TEST

VERT TEST 20

SCFM NO

Correct 1.76 NA

Flt Assy - OK

ALLOWABLE
ERROR

Hyst. NA

Friction OK

Leakage OK

Cal. Spec 1.1

Equip. Used SCORSBY

Pub. Used P13 11/13 1-61

REPAIRMAN

INSPECTOR

Completed Date 8.26.19

OVERHAUL

REPAIR

FUNCTIONAL TEST

The Aircraft Appliance identified above was overhauled, repaired, or functional tested as per block above in accordance with current Federal Aviation Administration Regulations and is approved for return to service. Details for this component are on file at this agency under work order number above.

Signature

Date 8.26.19

DELUXE FOR BUSINESS 1-800-888-6327

Ref. No: G 513351455



LP Aero Plastics Inc.
1086 Boquet Road
Jeannette, PA 156449730
Phone: (724) 744-4448
Fax: (724) 744-7372

AERO PLASTICS INC.

PACKING SLIP

Sales Order No. 00107392
Order Type Sales Order
Customer ID IRW010

00107392

BILL TO:	SHIP TO:
IRWIN INTERNATIONAL 225 AIRPORT CIRCLE CORONA, CA 92880	SAMUEL TUCKER 1900 PLUM LANE TRACY, CA 95376

PAGE 1

ORDER DATE	TERMS	SHIP VIA	CUSTOMER P.O. NO.
2/14/2018	Net 30 Days	UPS Ground TPR	D88445

PART NUMBER	QUANTITY	UNITS	SHIPPED	BO	UNIT PRICE	DISC %	EXTENDED PRICE
LP-397 SG Rear windshield	1.00	EA	1				

62049

CERTIFICATE OF COMPLIANCE

Certified that the whole of the supplies detailed hereon have been inspected, tested and unless otherwise stated above conform in all respects to the specification and contract purchase order relating thereto.

Furthermore the raw materials and/or parts used have been obtained from approved sources supported by release notes or certificates of conformity.

QUALITY CONTROL SUPERVISOR DATE

Notes: ACCT 13X-W62

No returns accepted after 60 days

No return accepted without prior authorization number

Each FAA-PMA approved part is manufactured in accordance with FAR 21.303 and marked in accordance with FAR 45.15. Where applicable, custom made parts will require FAA Field Approval.





Berkshire Instrument
2129 SE 11th Ave
Cape Coral, FL 33990

Invoice #: 00022836

Bill To:

RICK MANN
2273 AMERICAN AVE
#9
HAYWARD, CA 94545

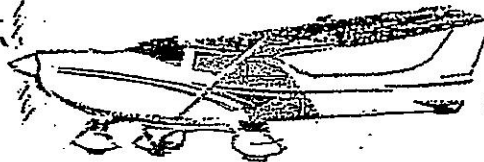
Ship To:

RICK MANN
2273 AMERICAN AVE
#9
HAYWARD, CA 94545

SALESPERSON		P.O. #	SHIP VIA	COL	PPD	SHIP DATE	TERMS		DATE	PG.
KALENA			FEDEX 3DAY		X		Prepaid		8/26/2019	1
QTY.	ITEM NO.	DESCRIPTION			PRICE	UNIT	DISC %	EXTENDED	TX.	
1	OH/L ATT ELEC	ATT ELEC. RCALLEN			\$795.00	EA		\$795.00		
1	MISC	LIGHTED UNIT			\$70.00	EA		\$70.00		
	PN / SN:	PN: RCA26AK-1				EA				
	SERIAL NO.	SN: 11K0581				EA				
	WORK ORDER	43943				EA				
1	#1 REG.	HANDLING			\$10.00	EA		\$10.00		
We appreciate your business!						SALE		\$875.00		
Overhauls have a one year warranty, repairs have a 30 day warranty.						FREIGHT		\$34.00		
Visible damage from shipping must be reported within 48 hours of receipt.						TOTAL		\$909.00		
Undamaged instruments returned within 30 days will be issued a credit memo towards future purchase.						PAID TODAY		\$909.00		
<i>Instruments returned for warranty service or for credit must be packed in at least 3" of foam packing material and must be shipped by UPS or FEDEX service. Shipments by Ground Service or Postal Service will void your warranty.</i>						BALANCE		\$0.00		
Exchange core are subject to inspection before being accepted. We reserve the right to refuse any unacceptable core. If your core is refused a charge will be made.										
<i>Exchange core that have not been returned within 30 days will be charged a core charge on the credit card used for the purchase. Exchange core returned after 30 days will be issued a credit memo towards future purchase.</i>										

A DIVISION OF

Phone 360-683-6245



Making The Skies Safer

Small
flat rate

HOSE ASSEMBLY INSPECTION REPORT

CUSTOMER NAME RICK MANN

AEROQUIP P/N AE3660001F0100

REV E

CUSTOMER P/N

REV

ACES 60/24 PROCESS 43

REPORT DATE 07/25/2014

LEAKAGE TEST RESULTS

HYDROSTATIC			
TIME	☐ 30 sec ☒ 1 min ☐ 5 min	TEST	QTY 1 EA
NITROGEN N/A			
TIME	☐ 30 sec ☐ 2 min ☐ 5 min	TEST	QTY
PRESSURE 3000		psig	
REMARKS:			
WORK ORDER # 581881			

QUANTITY: 1 EA

ACCEPTED BY:



HERBER AIRCRAFT SERVICE, INC
1401 EAST FRANKLIN AVENUE
EL SEGUNDO, CA 90245
310-322-9575 FAX 310-322-1875

INSPECTION	
ASSB	INSP
HOSE LOT/BATCH NUMBER	4647679002
Cure Date: N/A	Expiration in QTRS from D.O.M. N/A
PARTS CORRECT	
HOSE LENGTH & ID CORRECT	
CRIMP DIA. CORRECT	
SWIVEL ACTION CORRECT	
FITTING ALIGNMENT CORRECT	N/A
ELBOW ANGLE CORRECT	N/A
NO LOOSE OR CUT RUBBER	N/A
NO CONTAMINATION	
COIL INSTALLED CORRECT	N/A
SLEEVE INST'L. CORRECT	
CONDUCTIVITY	N/A
IDENTIFICATION CORRECT	
ID TAG INSTALLED	

HOSE ASSEMBLY INSPECTION REPORT

CUSTOMER NAME RICK MANN

AEROQUIP P/N 360-8D0162

REV AB

CUSTOMER P/N

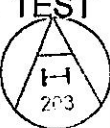
REV

ACES 38

PROCESS ²

REPORT DATE 07/25/2014

LEAKAGE TEST RESULTS

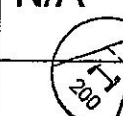
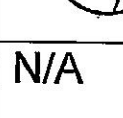
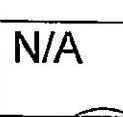
HYDROSTATIC			
TIME	☐ 30 sec ☒ 1 min ☐ 5 min	TEST	QTY
			1 EA.
NITROGEN N/A			
TIME	☐ 30 sec ☐ 2 min ☐ 5 min	TEST	QTY
PRESSURE 4000 psig			
REMARKS:			
WORK ORDER # 581881			

QUANTITY: 1 EA

ACCEPTED BY: 



HERBER AIRCRAFT SERVICE, INC
 1401 EAST FRANKLIN AVENUE
 EL SEGUNDO, CA 90245
 310-322-9575 FAX 310-322-1875

INSPECTION	
	ASSR INSP
HOSE LOT/BATCH NUMBER	3286295 
Cure Date: 4Q13	Expiration in QTRs from D.O.M. 4Q21 
PARTS CORRECT	
HOSE LENGTH & ID CORRECT	
CRIMP DIA. CORRECT	N/A
SWIVEL ACTION CORRECT	
FITTING ALIGNMENT CORRECT	N/A
ELBOW ANGLE CORRECT	N/A
NO LOOSE OR CUT RUBBER	
NO CONTAMINATION	
COIL INSTALLED CORRECT	N/A
SLEEVE INST'L. CORRECT	N/A
CONDUCTIVITY	N/A
IDENTIFICATION CORRECT	
ID TAG INSTALLED	



HOSE ASSEMBLY INSPECTION REPORT

CUSTOMER NAME RICK MANN

AEROQUIP P/N 350-4-0486

REV AH

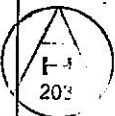
CUSTOMER P/N

REV

ACES 38 PROCESS ²

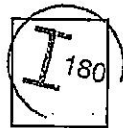
REPORT DATE 07/25/2014

LEAKAGE TEST RESULTS

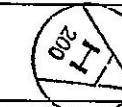
HYDROSTATIC			
TIME	☐ 30 sec ☒ 1 min ☐ 5 min	TEST	QTY
			
NITROGEN N/A			
TIME	☐ 30 sec ☐ 2 min ☐ 5 min	TEST	QTY
PRESSURE 6000 psig			
REMARKS:			
WORK ORDER # 581881			

QUANTITY: 1 EA

ACCEPTED BY: 



HERBER AIRCRAFT SERVICE, INC
 1401 EAST FRANKLIN AVENUE
 EL SEGUNDO, CA 90245
 310-322-9575 FAX 310-322-1875

INSPECTION	
ASSB	INSP
HOSE LOT/BATCH NUMBER	337 1992
Cure Date	Expiration in QTRS from D.Q.M. 1Q22
PARTS CORRECT	
HOSE LENGTH & ID CORRECT	
CRIMP DIA. CORRECT	N/A
SWIVEL ACTION CORRECT	
FITTING ALIGNMENT CORRECT	N/A
ELBOW ANGLE CORRECT	N/A
NO LOOSE OR CUT RUBBER	
NO CONTAMINATION	
COIL INSTALLED CORRECT	N/A
SLEEVE INST'L CORRECT	N/A
CONDUCTIVITY	N/A
IDENTIFICATION CORRECT	
ID TAG INSTALLED	



NO. 118-7

REVISION A

APPROVED BY

DATE _____

[illegible]

AIRCRAFT DEVELOPMENT
1220 RED OAK COURT
TROY, MO 63379

Title: Installation procedure-Fairing kit, Cessna

Page 1 of 4

No. 118-7

Issue Date 4/10/94

Rev. A

1.0 PURPOSE

To explain the installation procedure for this kit in the safest, most cost and time effective manner.

2.0 SCOPE

This procedure is applicable to all kits sold by Aircraft Development with the kit numbers having the digits 118-X2 or 118-1X2. These kits consist of wing strut fairings developed by Aircraft Development that are replacement fairings for Cessna fairings. They are different than most Cessna fairings in that they are split fairings, that allow the installation of the fairings without the need of disconnecting the lift strut from the wing. They are also made of fiberglass which makes for a much stronger and easily repairable fairing.

3.0 GENERAL

All work must be accomplished per Aircraft Development Installation Procedure 118-7, AC 43.13-1 and Cessna's Service manual for the appropriate model aircraft.

4.0 INSTALLATION PROCEDURE

4.1 Wing strut fairings are applicable to Cessna models 150, 152, 170, 172, 175, 180, 182, 185, 205, 206.

4.2 Spread fairings apart and slip over lift strut until flanges are next to aluminum skin and aligned properly to the strut, and with the seam in the fairing properly seated and closed. CAUTION to prevent damage to the fairing during installation please be sure to do the following: do not spread the fairing further apart than is necessary to slip it over the lift strut. Preheat the fairing by some suitable means to a temperature of approximately 125 degrees F (quite warm to the touch). This will make the fairing much more pliable and safe to spread apart twist and bend. Drill #29 pilot holes through fairings at the locations where the mounting screws attach the fairing to the aircraft. NOTE: on some aircraft the screw locations that mount the fairing to the aircraft may not line up with the screw indentations on the fairings. This is because of production tolerances on the screw locations at Cessna Aircraft. Be careful not to move the fairing during the drilling operation. At the fairing seam drill #19 holes through both outer skin and inner flange. See figures 1 and 2 plus table 1 for specific information on fairing installation.

4.3 Use the parts list supplied with this kit to determine which fairing gets placed where. For example the parts list gives both the Aircraft Development part number for the fairing, and the Cessna part number for the fairing being replaced. Also given is a descriptive name for the fairing that gives the fairing's location, such as Fairing-wing/strut R.H. Then select the Fairing-wing/strut R.H. by selecting the fairing with the proper fairing part number. The fairing part number is marked on the inside of the fairing. In this way the location of the fairing was identified as the R.H. wing to strut fairing. Use this procedure to identify the remaining fairings.

AIRCRAFT DEVELOPMENT
1220 RED OAK COURT
TROY, MO 63379

Title: Installation procedure-Fairing kit, Cessna

Page 2 of 4

No. 118-7

Issue Date 4/10/94

Rev. A

- 4.4 Remove the fairings from the lift strut and for every place there is a #29 pilot hole redrill the pilot holes with a #19 finish size hole.
- 4.5 Slip the tinnerman nuts provided onto the inner flange of the seam. It may be necessary to grind a small portion of the inner flange away to get the tinnerman nut aligned with the drilled hole in the outer skin.
- 4.6 Install the wing strut fairings back onto the wing struts using the original Cessna provided mounting screws along with the tinnerman nuts and the AN530-8R6 screws provided by Aircraft Development for the fairing seam. Note: On some model aircraft it may be necessary to trim a small portion of the fairing away to clear an obstruction. On fairing 118-4-24 &-25 make sure the AN530-8R6 screws are not impinging on the lift strut.

5.0 GENERAL INFORMATION

- 5.1 Check all work to see that it has been properly accomplished.
- 5.2 It is recommended that the fairings be painted to match the exterior of the aircraft.
- 5.3 Make entry on back page of form 337 as follows: Installed Aircraft Development's fairing kit in accordance with Aircraft Development installation procedure 118-7 approved by STC (attached).

TABLE 1	
FAIRING NUMBER	APPLICABLE FIGURE
118-4-24 118-4-25 118-4-34 118-4-35	FIGURE 1
ALL OTHER FAIRINGS	FIGURE 2

AIRCRAFT DEVELOPMENT
1220 RED OAK COURT
TROY, MO 63379

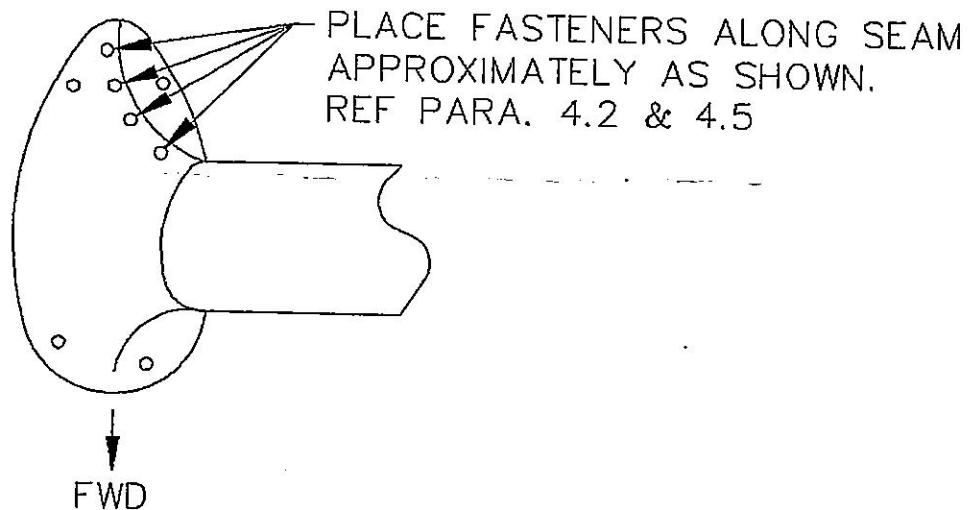
Title: Installation procedure-Fairing kit, Cessna

No. 118-7

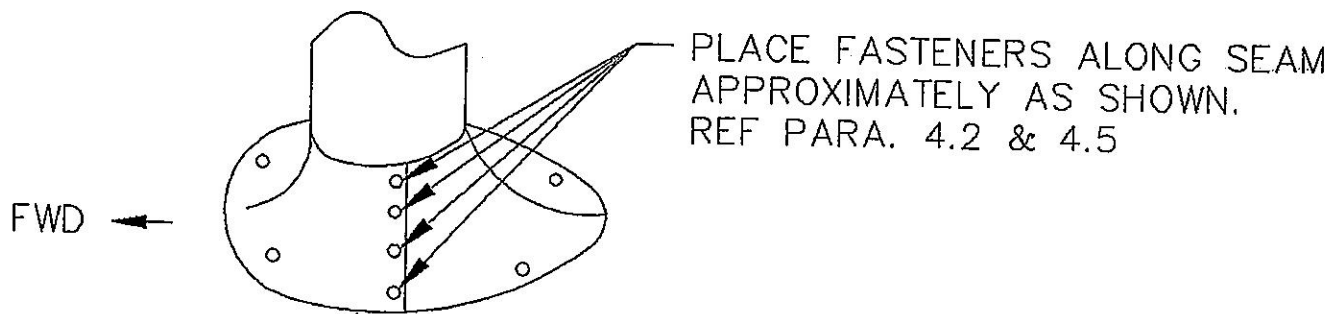
Page 3 of 4

Issue Date 4/10/94

Rev.



VIEW LOOKING UP AT
BOTTOM OF LEFT WING,
STRUT WING INTERSECTION.
RIGHT WING OPPOSITE.



LEFT HAND VIEW LOOKING
INBOARD AT STRUT
FUSELAGE INTERSECTION.
RIGHT SIDE OPPOSITE.

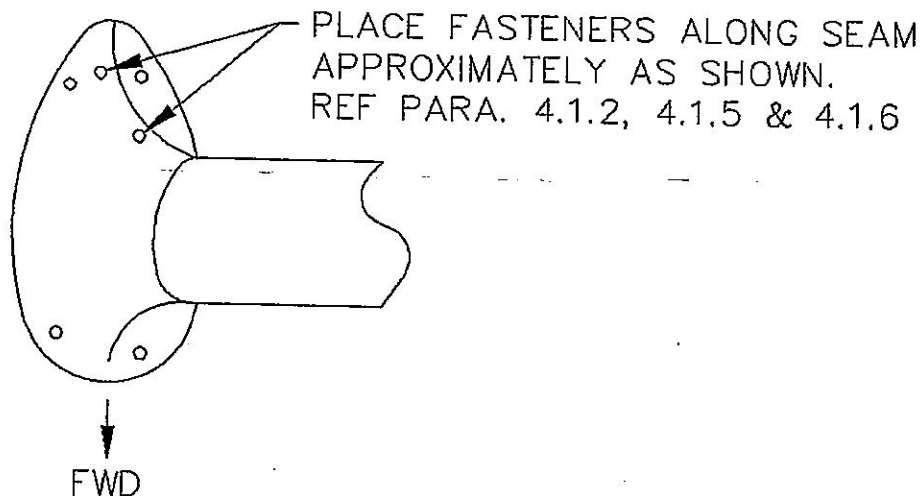
FIGURE 1

AIRCRAFT DEVELOPMENT
1220 RED OAK COURT
TROY, MO 63379

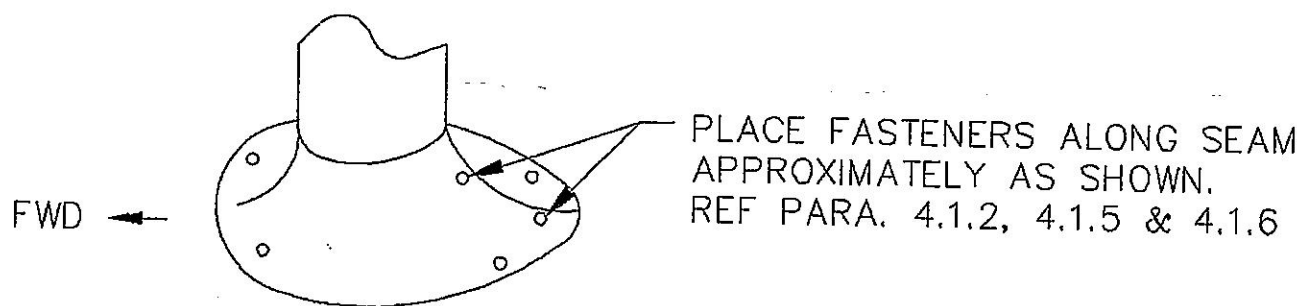
Title: Installation procedure-Fairing kit, Cessna

No. 118-7

Page 4 of 4
Issue Date 4/10/94
Rev.

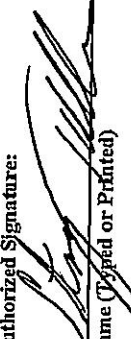
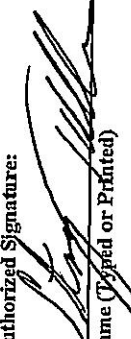


VIEW LOOKING UP AT
BOTTOM OF LEFT WING,
STRUT WING INTERSECTION.
RIGHT WING OPPOSITE.



LEFT HAND VIEW LOOKING
INBOARD AT STRUT
FUSELAGE INTERSECTION.
RIGHT SIDE OPPOSITE.

FIGURE 2

1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG		3. Form Tracking Number: H-O061137	
4. Organization Name and Address: HARTZELL ENGINE TECHNOLOGIES, 2900 SELMA HWY., MONTGOMERY, AL. 36108 (1HZR769B)					
6. Item: 1	7. Description: ALTERNATOR ***** DOFF103001 MOD/NO ***** END *****	8. Part Number:	9.	10. Serial Number: H-O061137	11. Status/Work: OVERHAULED
12. Remarks: COPY OF WORK ORDER AVAILABLE ON REQUEST FROM HARTZELL ENGINE TECHNOLOGIES CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 11/12 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVAL CERTIFICATE NUMBER EASA.145.4418 AND BY THE FAA AIR AGENCY CERTIFICATE NUMBER 1HZR769B. APPROVED FOR EXPORT THE ORIG. EQUIP. MFG. DATA APPEARS ON THE DATA PLATE IN THE LINES IDENTIFIED AS MOD/NO & ORIG. MFG. COMPLIES WITH PPS-9001 LATEST REVISION. OVERHAULED PER CESSNA MANUAL # D5107-1-13, REV 1..					
13a. Certifies the items identified above were manufactured in conformity to: ☒ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 12.		14a. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 12 Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.		14c. Approval/Certificate No: 1HZR769B	
13b. Authorized Signature: 		14b. Authorized Signature: 		14e. Date (dd/mm/yyyy): 25 JUN 2014	
13c. Approval/Authorization No.:		13d. Name (Typed or Printed): STACY TOLLIVER		14d. Name (Typed or Printed):	
13e. Date (dd/mm/yyyy):		14e. Date (dd/mm/yyyy):			
User/Installer Responsibilities It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1. Statements in Block 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.					

 US Department of Transportation Federal Aviation Administration		MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)		Form Approved OMB No. 2120-0020 2/28/2011		Electronic Tracking Number For FAA Use Only	
INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. §44701). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a))							
1. Aircraft		Nationality and Registration Mark N42279		Make Cessna		Model 182	
2. Owner		Name (As shown on registration certificate) Mann, Richard G		Address (As shown on registration certificate) 2273 American Ave Unit 1 Hayward CA 94545		City Hayward	
		Zip 94545		Country USA			
3. For FAA Use Only							
4. Type							
Repair		Alteration		Unit		Make	
☒		☐		☐		☐	
AIRFRAME		POWERPLANT		PROPELLER		APPLIANCE	
(As described in Item 1 above)		Type		Manufacturer		Serial No.	
5. Unit Identification							
6. Conformity Statement							
A. Agency's Name and Address Samuel G. Tucker 1900 Plum Lane Tracy CA 95376 City Tracy State CA Zip 95376 Country USA							
B. Kind of Agency ☒ U.S. Certified Mechanic ☐ Foreign Certified Mechanic ☐ Certified Repair Station ☐ Certified Maintenance Organization							
C. Certificate No. 2703762 A&P							
D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.							
Extended range fuel per 14 CFR Part 43 ☐ App. B							
Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is							
☒ Approved ☐ Rejected							
Persons Approved by Canadian Department of Transport							
Other (Specify)							
Manufacturer							
Repair Station							
Inspection Authorization							
Signature/Date of Authorized Individual 11/01/2014							
Certificate or Designation No. 2703762							

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

Number SA1662CE

This Certificate issued to Aircraft Development Co.
1220 Red Oak Ct.
Troy, MO 63378

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified herein meets the airworthiness requirements of Part 3 of the Civil Air Regulations effective May 15, 1956, as amended by 3-1 through 3-5.

Original Product Type Certificate Number: 3A24

Make: Cessna

Model: 185, 185A, 185B, 185C, 185D, 185E, A185E, A185F

Description of Type Design Change:

Installation of strut/wing and strut/fuselage fairings, lightning hole covers, and aerodynamic putty per Aircraft Development Co. Drawing List No. 118-1 with an FAA Approval date of July 31, 1981, or later.

Limitations and Conditions: Compatibility of this design change with previously approved modifications must be determined by the installer.

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

Date of application: June 17, 1981
Date of issuance: July 31, 1981

Date received: January 27, 1993;
January 30, 1996
Date amended:



By direction of the Administrator

Ronald K. Rathgeber
(Signature)
Ronald K. Rathgeber
Asso. ACO Mgr. Airframe & Services
Wichita Aircraft Certification Office

(Title)

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

FAA Form #10-2(10-68)

This certificate may be transferred in accordance with FAR 31.47

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

Number SA1667CE

This certificate issued to Aircraft Development Co.
1220 Red Oak Ct.
Troy, MO 63378

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified herein meets the airworthiness requirements of Part 3 of the Civil Air Regulations effective November 1, 1949, as amended 3-1 through 3-12, except for Airplane Model 182S which meets Part 23 of the Federal Aviation Regulations effective February 1, 1965, as amended by 23-1 through 23-6.

Original Product Type Certificate Number: 3A13

Make: Cessna

Model: 182, 182A, 182B, 182C, 182D, 182E, 182F, 182G, 182H, 182J, 182K, 182L, 182M, 182N, 182P, 182Q, 182R, 182S, R182, T182 and TR182

Description of Type Design Change:

Installation of strut/wing and strut/fuselage fairings, lightning hole covers, and aerodynamic putty per Aircraft Development Co. Drawing List No. 118-1 with an FAA approval date of July 31, 1981, or later.

Limitations and Conditions: Compatibility of this design change with previously approved modifications must be determined by the installer.

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

Date of application: June 17, 1981

Date of issuance: July 31, 1981

of the Federal Aviation Administration.

Date received:

July 2, 1982;
December 17, 1996
June 23, 2000

By direction of the Administrator



Ronald K. Rathgeber
(Signature)
Ronald K. Rathgeber
Associate ACO Manager, Airframe & Services
Wichita Aircraft Certification Office

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

Number SA1666CE

This Certificate issued to Aircraft Development Co.
1220 Red Oak Ct.
Troy, MO 63378

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified herein meets the airworthiness requirements of Part 3 of the Civil Air Regulations effective November 1, 1949, plus amendments listed in the type certificate data sheet

Original Product Type Certificate Number: 5A6

Make: Cessna

Model: 180, 180A, 180B, 180C, 180D, 180E, 180F, 180G, 180H, 180J, 180K

Description of Type Design Change:

Installation of strut/wing and strut/fuselage fairings, lightning hole covers, and aerodynamic putty per Aircraft Development Co. Drawing List No. 110-1 with an FAA approval date of July 31, 1981, or later.

Limitations and Conditions: Compatibility of this design change with previously approved modifications must be determined by the installer.

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

Date of application: June 17, 1981
Date of issuance: July 31, 1981

Date received: January 27, 1993;
January 30, 1996
Date amended:



By direction of the Administrator

Ronald K. Rathgeber
(Signature)
Ronald K. Rathgeber
Asso. ACO Mgr. Airframe & Services
Wichita Aircraft Certification Office

(Title)

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

FAA Form #10-2(10-68)

This certificate may be transferred in accordance with FAR 31.47

Supplemental Type Certificate

(Continuation Sheet)

Number SA5822NM

Applicability Table

Aircraft Model	Year	Serial Numbers	Horizon Tachometer P.N.
182	1956		P100053-143
182A	1957	30640 - 30265	P100053-143
182A	1958	30266 - 31260	P100053-143
182B	1959		P100053-143
182C	1960		P100053-143
182D	1961		P100053-143
182E	1962		P100053-143
182F	1963		P100053-143
182G	1964		P100053-143
182H	1965		P100053-143
182J	1966		P100053-143
A182J	1966		P100053-143
182K	1967		P100053-143
A182K	1967		P100053-143
182L	1968		P100053-143
A182L	1968		P100053-143
182M	1969		P100053-143
182N	1970		P100053-143
A182S	1970		P100053-143
182N	1971		P100053-143
182P	1972		P100053-143
182P	1973		P100053-143
A182S	1973		P100053-143
182P	All		P100053-145
182Q	All		P100053-145
182R	All		P100053-145
182R	All		P100053-145
R182	All		P100053-145
TR182	All		P100054-132
182S	All		P100053-132
182T	All		P100053-132

-END-

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



Supplemental Type Certificate Permission Statement

(Individual Version)

To:

Richard Mann

Horizon Instruments, Inc. hereby grants to the person(s) named above a one time only usage of Horizon Instruments, Inc.'s Supplemental Type Certificate Number **SA5822NM** to install a P-1000 Digital Tachometer in a **Cessna 182L**. A Copy of this Statement must remain attached to all copies of the Supplemental Type Certificate.

Supplemental Type Certificate installations are to be performed by the proper personnel, and must use the installation instructions, drawings and other information for reference on the Supplemental Type Certificate.

For Horizon Instruments, Inc.:

A handwritten signature in dark ink, appearing to read 'A. R. Jacobs', written over a horizontal line.

Authorized Signature

October 30, 2014

Date

600 S. Jefferson St., Unit C., Placentia, CA 92870
PH.(714) 524-1919 (800) 541-8128 FX.(714)524-5937
www.HorizonInstruments.com

United States of America
Department of Transportation - Federal Aviation Administration

Supplemental Type Certificate

Number SA5822NM

This Certificate is issued to Horizon Instruments, Inc.
600 S. Jefferson St., Unit C
Placentia, CA 92870

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 3 of the Civil Air Regulations, including Amendments 3-8 and Part 23 of the Federal Aviation Regulations, Amendment 23-41.

Original Product Type Certificate Number: 5A6

Make: Cessna

Model: 182, 182A, 182B, 182C, 182D, 182E, 182S, 182T

Description of Type Design Change: Installation of an Engine Electronic Digital Tachometer, Horizon Model P-1000, P/N P100053- (Applicability Table on continuation sheet) in Cessna 182 series aircraft, in accordance with Horizon Instruments, Inc. Master Drawing List No. P100053, Rev. N/C, dated March 12, 1992, or later FAA approved revision.

Horizon Airplane Flight Manual Supplement No. 1, dated August 12, 1992, or later approved revision is required.

Limitations and Conditions: The installation should not be incorporated in any aircraft unless it is determined that the interrelationship between this installation and any previously approved configuration will not introduce any adverse effect upon the airworthiness of the aircraft. The approval of this modification applies to the above noted airplane model series only. A copy of this STC must be included in the permanent records of the modified aircraft. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

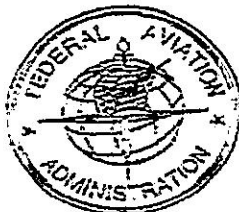
This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administration of the Federal Aviation Administration.

Date of application: April 8, 1991

Date received: January 14, 2002

Date of issuance: August 28, 1992

Date amended: January 7, 2005



By direction of the Administrator
[Signature]
Signature
Manager, Propulsion Branch
Los Angeles Aircraft Certification Office
(700)

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



US Department
of Transportation
Federal Aviation
Administration

MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

Form Approved
OMB No. 2120-0020
2/28/2011

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. §44701). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a))

1. Aircraft	Nationality and Registration Mark N42279	Serial No. 18258940	
	Make Cessna	Model 182	Series L
2. Owner	Name (As shown on registration certificate) Mann, Richard G	Address (As shown on registration certificate) Address 2273 American Ave Unit 1	
		City Hayward	State CA
		Zip 94545	Country USA

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
☐	☒	AIRFRAME	_____	(As described in Item 1 above)	_____
☐	☐	POWERPLANT	_____	_____	_____
☐	☐	PROPELLER	_____	_____	_____
☐	☐	APPLIANCE	Type _____	_____	_____
			Manufacturer _____		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency	
Name Samuel G. Tucker	Address 1900 Plum Lane City Tracy State CA Zip 95376 Country USA	☒ U. S. Certificated Mechanic	Manufacturer
		☐ Foreign Certificated Mechanic	C. Certificate No.
		☐ Certificated Repair Station	2703762 A&P
		☐ Certificated Maintenance Organization	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Extended range fuel
per 14 CFR Part 43
App. B ☐

Signature/Date of Authorized Individual
11/01/2014 

7. Approval for Return to Service

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ Approved ☐ Rejected

BY	FAA Fit. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee	Repair Station	☒ Inspection Authorization	

Certificate or
Designation No.
2703762

Signature/Date of Authorized Individual
11/01/2014 