

CUSTOMER WORK ORDER REPORT**WO # 4214-CHI Task 1 AV pg 1****Affordable Avionics Inc.****FAA Certified Repair Station # 8AAR592Y**

Cust Code: DOCA

Phone

Doug Caffey

Costa Mesa, CA 92627 USA

W00004214001

Item			
Part #			
Model			
Serial #			
Mfr.			
Discrep.	Autopilot Climbs & Sinks on Pitch		

A/C Tail #	N800DC	Hrs	763.20
A/C Make	BEECH		
A/C Model	D-50	Ser#	DH-120
Job Status	FINISHED		
Job type	STANDARD		
Open Date	Sep-11-2018 Tuesday		
Promised			
Started	Sep-24-2018 Monday		
Finished	Nov-12-2018 Monday		
Printed	Nov-16-2018 Friday 16:52		

DiscrepancyAutopilot Climbs & Sinks on Pitch
Task completed at KCNO**Preliminary Inspection**

Complied with

Hidden Damage Inspection

N/A

Corrective ActionRemoved and re-installed Pitch Serco PN: IC470-1-370P SN: 5326A after repair by Executive Autopilots WO 15012.
Post installation ground check on Autopilot System carried out satisfactory.

----- END TEXT -----

MAINTENANCE RELEASE / RETURN TO SERVICE CRS# 8AAR592Y

The Aircraft, Airframe, Aircraft Engine, Propeller or Appliance identified above was repaired and inspected in accordance with current regulations of the federal Aviation Administration and is approved for return to service.

Inspector/ Authorized Signature

Date

12 Nov 18 CRS # 8AAR592Y

CUSTOMER WORK ORDER REPORT

Affordable Avionics Inc.

WO # 4214-CHI Task 2 AV pg 1
FAA Certified Repair Station # 8AAR592Y

Cust Code: DOCA Phone: [REDACTED]

Doug Caffey

Costa Mesa, CA 92627 USA

W00004214002

Item	
Part #	
Model	
Serial #	
Mfgr.	
Discrep.	Install Stratus ESG

A/C Tail #	N800DC	Hrs	763.20
A/C Make	BEECH		
A/C Model	D-50	Ser#	DH-120
Job Status	FINISHED		
Job type	STANDARD		
Open Date	Sep-11-2018 Tuesday		
Promised			
Started	Sep-24-2018 Monday		
Finished	Nov-12-2018 Monday		
Printed	Nov-16-2018 Friday 16:52		

Discrepancy

Install Stratus ESG
Task completed at KCNO

Preliminary Inspection

Complied with

Hidden Damage Inspection

N/A

Corrective Action

Removed existing Narco AT-150 Transponder. Installed Appareo ESG Transponder in accordance with STC SA04112CH. See FAA Form 337 for details. The Transponder System was inspected and was found to comply with FAR 91.413 and Appendix F of FAR 43 and has shown to meet the equipment requirements of 14 CFR 91.227. Weight and Balance and Equipment list updated.

Test Equipment used : IFR 6000 S.N. 1000685871 Date of CAL 02/02/2018

----- END TEXT -----

MAINTENANCE RELEASE / RETURN TO SERVICE CRS# 8AAR592Y

The Aircraft, Airframe, Aircraft Engine, Propeller or Appliance identified above was repaired and inspected in accordance with current regulations of the federal Aviation Administration and is approved for return to service.

[Signature]
Inspector/ Authorized Signature

12 Nov 18
Date

CRS # 8AAR592Y

CUSTOMER WORK ORDER REPORT**Affordable Avionics Inc.****WO # 4214-CHI Task 3 AV pg 1****FAA Certified Repair Station # 8AAR592Y**

Cust Code: DOCA

Phone: [REDACTED]

Doug Caffey

Costa Mesa, CA 92627 USA

W00004214003

Item			
Part #			
Model			
Serial #			
Mfgr.			
Discrep.	91.411 & 91.413 Inspection		

A/C Tail #	N800DC	Hrs	763.20
A/C Make	BEECH		
A/C Model	D-50	Ser#	DH-120
Job Status	FINISHED		
Job type	STANDARD		
Open Date	Sep-11-2018 Tuesday		
Promised			
Started	Sep-24-2018 Monday		
Finished	Nov-12-2018 Monday		
Printed	Nov-16-2018 Friday 16:52		

Discrepancy91.411 & 91.413 Inspection
Task completed at KCNO**Preliminary Inspection**

Complied with

Hidden Damage Inspection

N/A

Corrective Action

Upon inspection found Pitot and Static would not hold pressure or vacuum. Isolated leak to VSI. Removed and re-installed VSI PN: 7060 SN: 302743 after repair by Aircraft Precision Instruments WO 12794. The Altimeter(s), static system, Transponder(s) and encoder were inspected upto 20,000 Ft. and were found to comply with FAR 91.411 and 91.413 and Appendix E and F of FAR 43.

Test Equipment used 1811H-161 S.N. 868 Date of CAL 06/6/2018

IFR 6000 S.N. 1000685871 Date of CAL 02/02/2018

Altimeter P.N. 371K-06 S.N. 0281

Transponder P.N. ESG S.N. 076302

----- END TEXT -----

MAINTENANCE RELEASE / RETURN TO SERVICE CRS# 8AAR592Y

The Aircraft, Airframe, Aircraft Engine, Propeller or Appliance identified above was repaired and inspected in accordance with current regulations of the federal Aviation Administration and is approved for return to service.

Inspector/ Authorized Signature

Date

12 Nov 18 CRS # 8AAR592Y

CUSTOMER WORK ORDER REPORT**Affordable Avionics Inc.****WO # 4214-CHI Task 4 AV pg 1****FAA Certified Repair Station # 8AAR592Y**

Cust Code: DOCA

Phone: [REDACTED]

Doug Caffey

Costa Mesa, CA 92627 USA

W00004214004

Item			
Part #			
Model			
Serial #			
Mfgr.			
Discrep.	Troubleshoot Leak		

A/C Tail #	N800DC	Hrs	763.20
A/C Make	BEECH		
A/C Model	D-50	Ser#	DH-120
Job Status	FINISHED		
Job type	STANDARD		
Open Date	Sep-11-2018 Tuesday		
Promised			
Started	Oct-19-2018 Friday		
Finished	Nov-12-2018 Monday		
Printed	Nov-16-2018 Friday 16:52		

Discrepancy

Troubleshoot Leak

Preliminary Inspection

Complied with

Hidden Damage Inspection

N/A

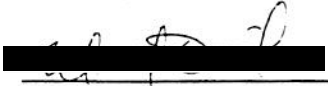
Corrective Action

See Task 3 for details.

----- END TEXT -----

MAINTENANCE RELEASE / RETURN TO SERVICE CRS# 8AAR592Y

The Aircraft, Airframe, Aircraft Engine, Propeller or Appliance identified above was repaired and inspected in accordance with current regulations of the federal Aviation Administration and is approved for return to service.


 Inspector/ Authorized Signature

 12 Nov 18
 Date

CRS # 8AAR592Y

1. Removed and re-installed Pitch Servo PN: IC470-1-370P SN: 5326A after repair by Executive Autopilots WO 15012. Post installation ground check on Autopilot System carried out satisfactory.
2. Removed existing Narco AT-150 Transponder. Installed Appareo ESG Transponder in accordance with SIC SA04112CH. See FAA Form 337 for details. The Transponder System was inspected and was found to comply with FAR 91.413 and Appendix F of FAR 43 and has shown to meet the equipment requirements of 14 CFR 91.227. weight and Balance and Equipment list updated.
- Test Equipment used : IFR 6000 S.N. 1000685871 Date of CAL 02/02/2018
3. Upon inspection found Pitot and Static would not hold pressure or vacuum. Isolated leak to VSI. Removed and re-installed VSI PN: 7060 SN: 302743 after repair by Aircraft Precision Instruments WO 12794. The Altimeter(s), static system, Transponder(S) and encoder were inspected upto 20,000 Ft. and were found to comply with FAR 91.411 and 91.413 and Appendix E and F of FAR 43.
- Test Equipment used 1811H-161 S.N. 868 Date of CAL 06/6/2018
- IFR 6000 S.N. 1000685871 Date of CAL 02/02/2018
- Altimeter P.N. 371K-06 S.N. 0281
- Transponder P.N. ESG S.N. 076302

Signed 8AAR592Y Deepun Desai

Date

12 Nov 18

Weight / Balance & Equipment List Revision

Page # : 1

Affordable Avionics Inc. - 8AAR592Y

7000 Merrill Ave # 18, A 335
Chino, CA 91710 Tel: 909-606-9876

A/C Tail # : N800DC
Register Name : Caffey Aviation LLC

Name 2 :

Address 1 :

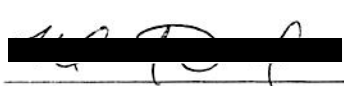
Address 2 :

City, State, PC : Costa Mesa, CA 92627-7600

A/C Make : BEECH
A/C Model : D-50
A/C Serial # : DH-120
WO Ref # : 4214
WB Date : Nov-12-2018
WB ID # : 675

Previous data taken from document dated Feb-20-2003

Model # Serial #	Description Part #	(LB / IN) Weight	CG/Arm	Moment
	Previous data ->	4461.10	112.50	501900.80
REMOVED ITEMS -----				
AT-150 47173	TRANSPONDER	-2.30	16.00	-36.80
REMOVED SUB TOTAL	1 Item @	-2.30	16.00	-36.80
INSTALLED ITEMS -----				
AV-801 180422	Antenna, GPS 252005-000023	0.30	49.00	14.70
Stratus ESG 076302	TRANSPONDER ADS-B OUT 153010-000050	3.32	17.00	56.44
INSTALLED SUB TOTAL	2 Items @	3.62	19.65	71.14
NEW DATA >>		4462.42	112.48	501935.14


Authorized Individual : 8AAR592Y Martin Davila

WEIGHT AND BALANCE REVISION

A/C # N4373D
 MAKE BECHCRAFT
 MODEL D50
 S/N # DA120

DATE 2-20-03

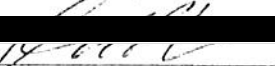
ITEM	WEIGHT	ARM	MOMENT
PREVIOUS AIRCRAFT EMPTY	4456.5	112.53	501496.0
INSTALLED:			
LH OIL FILTER + ADAPTER	+ 2.3	+ 88	+ 202.4
RH OIL FILTER + ADAPTER	+ 2.3	+ 88	+ 202.4
NEW EMPTY WEIGHT C.G.	4461.1	112.50	501900.8

WEIGHT 4461.1
 C.G. 112.50
 MOMENT 501900.8

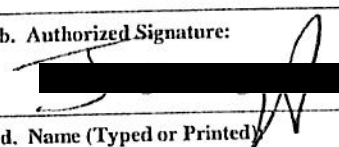
COMPUTED BY [Signature]

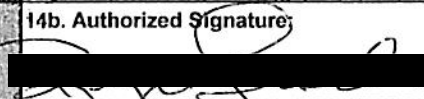
A & P # [Redacted]

CHECKED BY [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: 15012	
4. Organization Name and Address: Executive Autopilots Inc, 5839 Freeport Blvd Sacramento CA. 95822						5. Work Order/Contract/Invoice Number: 15012	
6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:	
1	Pitch Servo	1C470-1-370P	TBD	1	5326A	Repaired	
13. Remarks: LABOR ITEM 1: OVERHAUL- SERVO WON'T HOLD PITCH. Tested and verified the high start-up voltage. Disassembled and refurbished the drive motor. Replaced the damaged bearings. Reassembled the servo. Performed a bench test and alignment. The servo tested good after repair.							
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:		16. Approval/Authorization No.:		20. Authorized Signature: 		21. Approval/Certificate No.: E5VR306N	
17. Name (Typed or Printed):		18. Date (m/d/y):		22. Name (Typed or Printed): David Decant		23. Date (m/d/y): 10/01/2018	
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: 3261	
4. Organization Name and Address: R A Miller Industries, 14500 168th Ave. Grand Haven, 49417 PT2530CE					5. Work Order/Contract/Invoice Number: 26160	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:	
1	GPS Antenna	AV-801(-A)	80	See Box 12 for Serial Numbers	New	
12. Remarks: AIRWORTHINESS APPROVAL TSO-C190 Serial Numbers: 180884-thru-180963						
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:		14c. Approval/Certificate No.:
13d. Name (Typed or Printed): Joe Baker		13e. Date (dd/mmnn/yyyy): 01/AUG/2018		14d. Name (Typed or Printed):		14e. Date (dd/mmnn/yyyy):
User/Installer Responsibilities						
It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1. Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.						

1. Approving Civil Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: JCA-893	
4. Organization Name and Address: Appareo Systems, LLC 1830 NDSU Research Circle N. Fargo, ND 58102 (PT4000CE / PQ4000CE)					5. Work Order/Contract/Invoice Number: Job: 013901	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:	
1.	Transponder, Stratus ESG	153510-000017	27	076301-076327	NEW	
2.	Install Rack, Stratus ESG	153540-000027	27	N/A	NEW	
3.	ASSY, Backplate, Stratus ESG	153510-000015	27	N/A	NEW	
12. Remarks: Produced under PT4000CE for TSOs: TSO-C112c, TSO-C145d, and TSO-C166b SW: 501010-000113 R07 AEH: 501010-000109 R05						
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:		
13d. Name (Typed or Printed): Jeremy Anderson		13e. Date (dd/mm/yy): 28 AUG 2018		14c. Approval/Certificate No.:		
14d. Name (Typed or Printed):		14e. Date (dd/mm/yy):				
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 Civil Aviation Authority/Country FAA/UNITED STATES		2 AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: 12794	
4. Organization Name and Address: AIRCRAFT PRECISION INSTRUMENTS 1215 POMONA ROAD SUITE D CORONA, CA 92882 CRS# 6APR638B					5. Work Order/Contract/Invoice 12794	
6. Item:	7. Description:	8. Part Number:	9. Qty:	10. Serial Number:	11. Status/Work:	
1	Vertical Speed	7060 7060C.20	1	302743	Functional Tested	
12. Remarks: The work order referenced describes the actual work performed. All work was performed I.A.W. reference manual 7000 Series Original						
13a. 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 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: 		14c. Approval/Certificate No.: FAA CRS 6APR638B
13d. Name (Typed or Printed):		13e. Date (dd/mm/yyyy):		14d. Name (Typed or printed): Roger Leiserovich		14e. Date (dd/mm/yyyy): 23/Oct/2018
User / Installer Responsibilities						
It is important to understand that the existence of the document alone does not automatically constitute authority to install the 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 the Block 1, it is essential that the user/installer ensures his/her airworthiness 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.						

 U.S. Department of Transportation Federal Aviation Administration		MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)		Form Approved OMB No. 2120-0020 11/30/2007	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 N800DC	Serial No. DH-120	
	Make BEECH	Model D-50	Series
2. Owner	Name (As shown on registration certificate) Caffey Aviation LLC		Address (As shown on registration certificate) [REDACTED] Costa Mesa, CA 92627-7600

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
☐	☒	AIRFRAME	[REDACTED]	<i>(As described in Item 1 above)</i>	[REDACTED]
☐	☐	POWERPLANT			
☐	☐	PROPELLER			
☐	☐	APPLIANCE	Type Manufacturer		

6. Conformity Statement												
A. Agency's Name and Address Affordable Avionics Inc. 7000 Merrill Ave # 18 Chino, CA 91710 USA	<table style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="font-size: x-small;">B. Kind of Agency</th> </tr> <tr> <td style="width: 50%; text-align: center;">☐ U. S. Certified Mechanic</td> <td style="width: 50%; text-align: center;">☐ Manufacturer</td> </tr> <tr> <td style="text-align: center;">☐ Foreign Certified Mechanic</td> <td style="text-align: center;">C. Certificate No.</td> </tr> <tr> <td style="text-align: center;">☒ Certified Repair Station</td> <td style="text-align: center;">#8AAR592Y</td> </tr> <tr> <td style="text-align: center;">☐ Certified Maintenance Organization</td> <td></td> </tr> </table>		B. Kind of Agency		☐ U. S. Certified Mechanic	☐ Manufacturer	☐ Foreign Certified Mechanic	C. Certificate No.	☒ Certified Repair Station	#8AAR592Y	☐ Certified Maintenance Organization	
B. Kind of Agency												
☐ U. S. Certified Mechanic	☐ Manufacturer											
☐ Foreign Certified Mechanic	C. Certificate No.											
☒ Certified Repair Station	#8AAR592Y											
☐ Certified 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 [REDACTED]	Martin Davila 12-November-2018
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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					
	FAA Fit. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport	
BY	FAA Designee	☒ Repair Station	Inspection Authorization	Other (Specify)	

Certificate or Designation No. #8AAR592Y	Signature/Date of Authorized Individual [REDACTED]	Martin Davila 12-November-2018
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NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

Description of Work Accomplished
(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N800DC

Nov-12-2018

Nationality and Registration Mark

Date _____

Removed existing Narco AT-150 Transponder.

Installed and tested Stratus ESG ADS-B Compliant Transponder in accordance with (IAW) approved IM(Installation Manual), Doc# 600840-000032, Rev 2.1 dated February 20, 2018, , and FAA Policy Notice No. N8900.362.

This installation is Listed on AML to STC No. SA04112CH.

The installed ADS-B OUT system was shown to meet the equipment performance requirements of 14 CFR Part 91.227, and no interference with any aircraft systems were found.

Testing as required by 14 CFR 91.413 was performed and found to meet applicable portions of Part 43.

Weigh and Balance Data, Equipment List, and Airframe Logs updated to reflect this change this date.

Performed an Electrical Load Analysis (test) and found total load does not exceed 80% of rated capacity.

Inserted FAA Approved Airplane Flight Manual Supplement, Document# 606586-000075, Rev 2.0 dated September 20, 2017, in the Pilot's Operating Handbook. Reference Instructions for Continued Airworthiness, Document # 600845-000025, Rev 2.2, dated February 20, 2018.

Test Equipment used : IFR 6000 S.N. 1000685871 Date of Cal 02/02/2018

[illegible]

☐ ADDITIONAL SHEETS ARE ATTACHED