

AIRCRAFT DESCRIPTION

MANUFACTURER <u>GLASAIR</u>	MODEL <u>SPORTSMAN GS-2</u>	DATE OF MFG. <u>06/76</u>
SERIAL NUMBER <u>7481</u>	REGISTRATION NUMBER <u>N686D</u>	
REGISTERED OWNER <u>RODNEY L DAVIS</u>	Inspection Status (Check one)	
STREET ADDRESS <u>2451 Seiler Rd</u>		
CITY, STATE, ZIP <u>ALTON, IL 62002</u>		
OPERATOR <u>SAME</u>	<input type="checkbox"/> F.A.R. 91.409 ANNUAL/100 HOUR	
STREET ADDRESS _____	<input type="checkbox"/> F.A.R. 91.409 PROGRESSIVE	
CITY, STATE, ZIP _____	<input type="checkbox"/> F.A.R. 135.419 A.T.C.O.	
REGISTERED OWNER _____	<input type="checkbox"/> OTHER	
STREET ADDRESS _____	DATE ENTERED _____	
CITY, STATE, ZIP _____	MAINTENANCE RESPONSIBILITY _____	
OPERATOR _____		
STREET ADDRESS _____		
CITY, STATE, ZIP' _____		

INSTALLED EQUIPMENT

ITEM	MANUFACTURER	MODEL	SERIAL NO.
ENGINE			R
			L
ENGINE			R
			L
PROPELLER			
PROPELLER			
ENGINE			
ENGINE			
PROPELLER			
PROPELLER			
ENGINE			
ENGINE			
PROPELLER			
PROPELLER			
ENGINE			
ENGINE			
PROPELLER			
PROPELLER			
Ignition/door key	ACS Key # 130		
Radar ALTimeter	(3/13/26) garmin	Height Advisor GHA15	ser: 6M1001527

ALTIMETER & STATIC SYSTEM CHECKS

F.A.R. 91.411

DATE	MANUFACTURER	MODEL	SERIAL NO.	LOCATION	MAX. ALT.	RECHECK REQUIRED	APPROVED BY: AGENCY CERT. NO.
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#1 **Altimeter-Calibration**
 Manufacturer Gamm
 Part No. G5U 25
 Serial No. 25A 006090

Test Point, Ft.	Altimeter Error, Ft.	Test Point, Ft.	Altimeter Error, Ft.
-1,000	0	14,000	+50
0	+10	16,000	+50
500	+10	18,000	+40
1,000	0	20,000	+30
1,500	+20	22,000	/
2,000	+20	25,000	
3,000	+25	30,000	
4,000	+25	35,000	
6,000	+15	40,000	
8,000	+15	45,000	
10,000	+30	50,000	
12,000	+30		

This altimeter has been tested in accordance with FAR 91.411 and Part 43, Appendix E, and certified to 20,000 ft.
 Case Leak -0- ft. min.

Signed [Signature] Date 11/6/19
CANNON AVIONICS, INC.
 Repair Station FB6R529N

#2 **Altimeter-Calibration**
 Manufacturer Gamm
 Part No. G5U 25
 Serial No. 25A 006119

Test Point, Ft.	Altimeter Error, Ft.	Test Point, Ft.	Altimeter Error, Ft.
-1,000	-10	14,000	0
0	0	16,000	0
500	0	18,000	+40
1,000	+5	20,000	+30
1,500	+10	22,000	/
2,000	+10	25,000	
3,000	+20	30,000	
4,000	+10	35,000	
6,000	+20	40,000	
8,000	+20	45,000	
10,000	+20	50,000	
12,000	0		

This altimeter has been tested in accordance with FAR 91.411 and Part 43, Appendix E, and certified to 20,000 ft.
 Case Leak -0- ft. min.

Signed [Signature] Date 11/6/19
CANNON AVIONICS, INC.
 Repair Station FB6R529N

RADIO & ELECTRONIC CHECKS

DATE	TOTAL TIME	EQUIPMENT CHECKED	TYPE OF CHECK	ERROR OR RESULTS	NEXT CHECK DUE	CHECKED BY: SIGNATURE — CERT. NO.
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Inspections conducted under parts 91, 135 with no discrepancies



Temp Aircraft LLC



TAC-ALT
833 S. Airport Dr. Hanger #5
Springfield, IL 62707
(217)899-3645 / (217)679-2703
TempAircraftLLC.com

Registration # *N686D*

Serial # *7481*

Aircraft Total time : *135.3*

Work Order: *A373*

Date: *10/26/2021*

The aircraft transponder systems have been tested and inspected in accordance with Appendix E and F part 43 and found to comply with FAR 91.411 with no discrepancies noted.

Pilots Altimeter, P/N: *G\$-2*

S/N: *2\$A000090*
2\$A000119

The aircraft Transponder systems have been tested and inspected in Accordance with FAR 91.413 and found to comply with Appendix F and E(c) of part 43.

Transponder, P/N: *GTX-45R*

S/N: *44C020240*
2\$A000090
2\$A000119

Blind Encoder, P/N: *G\$-2*

"I certify that this airframe has been inspected or repaired in accordance with current FAA Regulations, and is Approved for return to service with respect to the work performed."
"Pertinent details on file at this repair station under above noted work order."

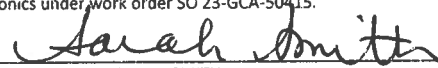
Date: *10/26/2021* Signed: *Raymond H. Witt*

(signature of Authorized Representative)

Temp Aircraft LLC for CRS # 1P5R894C


RADIO & ELECTRONIC CHECKS

DATE	TOTAL TIME	EQUIPMENT CHECKED	TYPE OF CHECK	ERROR OR RESULTS	NEXT CHECK DUE	CHECKED BY: SIGNATURE — CERT. NO.
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Gulf Coast Avionics						CRS UB4R564M
Registration: N686D	Make: RODNEY L DAVIS	Model: SPORTSMAN GS-2	S/N: 7481	Aircraft Time: 232.4 HOBBS		
<p>Performed ADAHRS calibration procedure on GSU25 s/n 2SA006090 & 2SA06119 per G3X IM p/n 190-01115-01 Rev AU, dated Aug 23, 2023. The Garmin GSU25 ADHRS S/N 2SA006090, Garmin GSU25 ADHRS S/N 2SA06119, the aircraft static and altitude reporting systems have been inspected and tested to a pressure altitude of 20000 feet and found to comply with Appendix E of 14 CFR Part 43. The Garmin GTX45R Transponder S/N 44C020240 has been tested, inspected and found to comply with Appendix F of 14 CFR Part 43. This satisfies the requirements of 14 CFR 91.411 & 91.413. Next inspection due: 11/2025.</p> <p>This aircraft has been inspected in accordance with current federal aviation regulations and found to be airworthy with respect to the work performed. Details will be on file at Gulf Coast Avionics under work order SO 23-GCA-50415.</p>						
 Signature: SARAH SMITH						Date: 11/7/2023
Page 1 of 1						

THE FOLLOWING ALTIMETER SYSTEM AND ALTITUDE REPORTING EQUIPMENT TESTS AND INSPECTIONS AS REQUIRED BY FAR 91.411 I.A.W. FAR 43 APPENDIX "E" HAVE BEEN PERFORMED.

PARA (A) STATIC SYSTEM
PARA (B) ALTIMETER
 PILOTS GSU25 S/N 2SA006090
 C.P.'S GSU25 S/N 2SA006119
 TESTED TO 20,000 FT.

PARA (C) INTEGRATED SYSTEM TEST
ATC TRANSPONDER TESTS AND INSPECTIONS AS REQUIRED BY FAR 91.413 I.A.W. FAR 43 APPENDIX "F" HAVE BEEN PERFORMED
 #1 MODEL GTX45R S/N 44C020740
 #2 MODEL _____ S/N _____
 DATE 02/03/26 N 686D WO# AP2166
 SIGNED BY 
 AVIONICS PLACE FG5R866M ROCKFORD IL

GULF COAST AVIONICS CORPORATION

3650 Drane Field Rd.

Lakeland, FL 33811

FAA CRS # UB4R564M

ALTIMETER TEST CORRECTION SHEET

Work Order: 23-GCA-50415	N#: 686D	Performed by: JS	Hobbs: 232.4	Date: 11/7/2023
Transponder---- Make: N/A		Model: N/A	S/N: N/A	
Altimeter/ADC--Make: GARMIN		Model: GSU25 (CPLT)	S/N: 2SA006119	

I. BARO SCALE ERROR

Pressure (In hg)	Altimeter Reads	Altitude Difference (Ft)	Tolerance (Ft)	Calculated Difference
28.10	-1730	-1727	±25	3
28.50	-1340	-1340	±25	0
29.00	-865	-863	±25	2
29.50	-395	-392	±25	3
*29.92	1	0	±25	1
30.50	525	+531	±25	6
30.90	890	+893	±25	3
30.99	970	+974	±25	4

II. ALTIMETER SCALE ERROR

Altitude (Ft)	Tol (Ft)	Altim Read	Encoded Alt	Altitude	Tol	Altim Read	Encoded Alt
-1000	±20	-1010	N/A	12000	±90	11999	N/A
0	±20	1	N/A	14000	±100	14000	N/A
500	±20	490	N/A	16000	±110	16000	N/A
1000	±20	994	N/A	18000	±120	18001	N/A
1500	±25	1495	N/A	20000	±130	20005	N/A
2000	±30	1995	N/A	22000	±140	N/A	N/A
3000	±30	2995	N/A	25000	±155	N/A	N/A
4000	±35	3995	N/A	30000	±180	N/A	N/A
6000	±40	5995	N/A	35000	±205	N/A	N/A
8000	±60	7995	N/A	40000	±230	N/A	N/A
10000	±80	9999	N/A	45000	±255	N/A	N/A
				50000	±280	N/A	N/A

III. FRICTION ERROR

Alt (Ft)	Tol (Ft)	Altimeter Error	Alt (Ft)	Tol (Ft)	Altimeter Error
1000	±70	N/A	20000	±100	N/A
2000	±70	N/A	25000	±120	N/A
3000	±70	N/A	30000	±140	N/A
5000	±70	N/A	35000	±160	N/A
10000	±80	N/A	40000	±180	N/A
15000	±90	N/A	50000	±250	N/A

IV. HYSTERESIS TOLERANCE (75 Ft)

Hyst Test #1	Hyst Test #2	Case Leak Test 18000 Ft	92
50% Max Altitude	40% Max Altitude	After Eff Test	1
Error 11	Error 15		

VI. TEST EQUIPMENT USED

Type and Manufacturer	LAVERSAB 6300 S/N 77557
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NOTE: Any discrepancies noted on this form must be transferred to the work order.



Temp Aircraft LLC



813 S. Airport Dr.

Phone: (217)679-2703

Springfield, IL 62707

Form Altimeter/Static System Test Report

Cell: (217)899-3645

DATE: 10/26/2024
PILOT: ✓
ALT. MFG: GARMIN
MODEL: GSU 25
P/N: GSU 25
S/N: 28A006090

Customer: # 6860
CO-PILOT: Stand-by:
ALT. MFG: GARMIN ADC:
MODEL: GSU 25 MFG:
P/N: GSU 25 MODEL: N/A
S/N: 28A006119 P/N:
S/N: S/N:

MFG: Glassair
S/N:

S/N: 7481
Work Order # A323
TRANSPONDER: GARMIN 41
MFG: GARMIN
MODEL: GTR 45R
P/N: GTX-HSR
S/N: 446020240

A:	Scale Error:	Encoding Reporting Setting (K ft.)	Friction Test:	Hysteresis Test: Tol. ± 75	Static Heat
	Altitude (Ft.)	Tol. ± 125 ft.	Tol. ± Ft.	ft. 10000 10000	Pitot Heat
-1000	<u>990 -990</u>	<u>1000</u>		<u>N/A</u>	
0	<u>10 10</u>	<u>0</u>			
500	<u>510 510</u>	<u>500</u>			
1,000	<u>1010 1010</u>	<u>1000</u>	1,000 <u>—</u> 70	Barometric Scale Error	
1,500	<u>1510 1510</u>	<u>1500</u>	2,000 <u>—</u> 70	Pressure	Altitude Actual Tol.
2,000	<u>2010 2010</u>	<u>2000</u>	3,000 <u>—</u> 70	(Inches of Hg)	Differ. (ft.) Measure ± (ft.)
3,000	<u>3010 3010</u>	<u>3000</u>	6,000 <u>—</u> 70	28.10	
4,000	<u>4010 4010</u>	<u>4000</u>	10,000 <u>—</u> 80	28.50	
6,000	<u>6010 6010</u>	<u>6000</u>		29.00	
8,000	<u>8010 8010</u>	<u>8000</u>		29.50	
10,000	<u>10010 10010</u>	<u>10000</u>		29.92	
12,000	<u>12010 12010</u>	<u>12000</u>		30.50	
14,000	<u>14010 14010</u>	<u>14000</u>		30.90	
16,000	<u>16010 16010</u>	<u>16000</u>	16,000 <u>—</u> 90	30.99	
18,000	<u>18015 18010</u>	<u>18000</u>	20,000 <u>—</u> 100		
20,000	<u>20020 20015</u>	<u>20000</u>			
22,000					
25,000					
29,000					
30,000					
35,000					
40,000					
41,000					
45,000					
50,000					

REMARKS:
Complied with leak check

Signature: Ryan H. [Signature]

ALT TEST DATA PER FAR 91.411 iaw FAR 43, APP. E
 AVIONICS PLACE-REPAIR STATION NO. FQ5R866M

#1

CUSTOMER NAME: CHAD FEDLER					
N NO.: N686D			DATE: 02/03/26		
W.O. NO.: AP-2166			INSP BY: KEMRAN A.		
ALT S/N: 25A0006090			MODEL: C-5425		
TABLE I			TABLE II		
ALT	TOL	IND	TEST	TOL	IND
-1000	20	-1000	CASE LEAK	100	C
0	20	0	HYSTERISIS		
500	20	505	1ST TEST 50%	75	+10
1000	20	1005	2ND TEST 40%	75	+10
1500	25	1505	AFTER EFFECT	30	0
2000	30	2005			
3000	30	3005	TABLE III FRICTION	TABLE IV BARO SCALE	
4000	35	4010	ALT	TOL	IND
6000	40	6010	1000	70	28.10
8000	60	8010	2000	70	-1727
10000	80	10010	3000	70	28.50
12000	90	12010	5000	70	-1340
14000	100	14015	10000	80	29.00
16000	110	16015	15000	90	-863
18000	120	18020	20000	100	29.50
20000	130	20020	25000	120	-392
22000	140		30000	140	29.92
25000	155		35000	160	0
30000	180		40000	180	29.99
35000	205		50000	250	531
NEXT IFR CERTIFICATION DUE BY: 02, 28, 28					

42

ALT TEST DATA PER FAR 91.411 iaw FAR 43, APP. E
AVIONICS PLACE-REPAIR STATION NO. FQ5R866M

CUSTOMER NAME: CHAD FEDLER					
N NO.: N88D			DATE: 02/03/26		
W.O. NO.: AP 2166			INSP. BY: KEARAN A.		
ALT S/N: 2SA006119			MODEL: G5475		
TABLE I			TABLE II		
ALT	TOL	IND	TEST	TOL	IND
-1000	20	-1000	CASE LEAK	100	0
0	20	0	HYSTERISIS		
500	20	505	1ST TEST 50%	75	+10
1000	20	1005	2ND TEST 40%	75	+10
1500	25	1505	AFTER EFFECT	30	0
2000	30	2005			
3000	30	3005	TABLE III FRICTION	TABLE IV BARO SCALE	
4000	35	4010	ALT	TOL	IND
6000	40	6010	1000	70	28.10
8000	60	8010	2000	70	28.50
10000	80	10010	3000	70	29.00
12000	90	12015	5000	70	29.50
14000	100	14015	10000	80	29.92
16000	110	16015	15000	90	30.50
18000	120	18020	20000	100	30.90
20000	130	20025	25000	120	30.99
22000	140	//////	30000	140	
25000	155	//////	35000	160	
30000	180	//////	40000	180	
35000	205	//////	50000	250	
NEXT IFR CERTIFICATION DUE BY: 02, 28, 28					

MAINTENANCE RECORD F.A.R. 43.9

DATE OF COMPLETION	AIRCRAFT TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED OR APPROVED DATA USED	AGENCY & CERTIFICATE NO. WORK PERFORMED/RETURNED TO SERVICE
5/27/2020	70.2	Cleaned and inspected boost pump fuel screen & gasulator strainer bowl. Cleaned and Repatched MLG wheel bearings with AeroShell 22 grease. Inspected and tested ELT in accordance with 14CFR pt 91.207(d) - satisfactory. ELT battery expires 04/2024.	Rolling Day ASP 2820087
5/29/2020	70.2	Installed fire extinguisher in forward cabin. updated weight and balance.	Rolling Day ASP 2820087
6/6/2020	77.1		
10/8/2020	78.5	Replace R/H MAIN fuel TANK DRAIN plug and checked for operation and no leaks.	Rolling Day ASP 2820087

MAINTENANCE RECORD F.A.R. 43.9

DATE OF COMPLETION	AIRCRAFT TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED OR APPROVED DATA USED	AGENCY & CERTIFICATE NO. WORK PERFORMED/RETURNED TO SERVICE
7/3/2021	1161	Cleaned and inspected boost pump fuel screen. Cleaned and repacked MLG wheel bearings with AeroShell 22 grease. Inspected and tested ELT in accordance with 14 CFR pt. 91.207(d) - satisfactory. ELT battery expires 04/2024. Tested TCW backup battery; after 2 hrs 12.50 volts - satisfactory	[Signature] A&P 2820087

Tach: 306.8

AIRCRAFT LOG ENTRY FOR N686D

DATE: 01-09-26

Remove tailwheel, replace tailwheel tire with new Aero Classic 280-250-4 6 p,y tire and replace inner tube with new Leakguard 280/250-4 inner tube. Reinstall tailwheel.

Signed: _____

AP31232761A

Johnson Bros. Flying Service E2525 Co Hwy JJ, Spring Green, WI 53588 Tri-County Regional Airport (LNR) (608)341-8030

MAINTENANCE RECORD F.A.R. 43.9


AGENCY & CERTIFICATE NO.
WORK PERFORMED/RETURNED TO SERVICE

DATE OF
COMPLETION

AIRCRAFT TIME
IN SERVICE

DESCRIPTION OF WORK PERFORMED
OR APPROVED DATA USED

AGENCY & CERTIFICATE NO.
WORK PERFORMED/RETURNED TO SERVICE

DATE OF COMPLETION	AIRCRAFT TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED OR APPROVED DATA USED	AGENCY & CERTIFICATE NO. WORK PERFORMED/RETURNED TO SERVICE
4/15	322.2	<u>AIRCRAFT LOG ENTRY FOR N686D</u> Remove and replace all wing tank drain sump valves with new valves P/N CAV-110.	
DATE: 01-09-26	TACH: 337.7	Signed: 	
		AP31232761A	
		Johnson Bros. Flying Service E2525 Co Hwy JJ, Spring Green, WI 53588 Tri-County Regional Airport (LNR) (608)341-8030	




ASP 2: 2,0087

280/250

341-8030

INSPECTION RECORD

F.A.R. 43.11-91.409

SERVICE	DATE	AIRCRAFT TIME IN SERVICE	KIND OF INSPECTION—STATUS & DISCREPANCY LIST SIGNATURE — CERT. NO. OF PERSON APPROVING OR DISAPPROVING AIRCRAFT FOR SERVICE
			<p>I certify that this aircraft has been inspected in accordance with the scope and detail of Appendix D to Part 43 and found to be in condition for safe operation.</p> <p> Owner 06/26/2019 Date</p> <p> A/c 3736389 Glasair Aviation 6/26/2019 Date</p>
			<p>Reg # N686D, S/N 7481</p> <p>I find that this aircraft meets the requirements for the certificate requested and have issued a special airworthiness certificate for the purpose of "Operating an Amateur-Built Aircraft" and operating limitations dated 26 Jun 2019.</p> <p> Steven B Palmer, 221402183 Seattle MIDO AIR-872</p>

INSPECTION RECORD

F.A.R. 43.11-91.409

DATE	AIRCRAFT TIME IN SERVICE	KIND OF INSPECTION—STATUS & DISCREPANCY LIST SIGNATURE — CERT. NO. OF PERSON APPROVING OR DISAPPROVING AIRCRAFT FOR SERVICE
		<p>I certify that the prescribed flight test hours have been completed and the aircraft is controllable throughout its normal range of speeds and throughout all maneuvers to be executed, has no hazardous operating characteristics or design features, and is safe for operation. The V speeds published in the POH have been demonstrated during the flight testing, at varying weights and CG locations.</p> <p style="text-align: right;">11/13/2019</p> <p>Certificate # <u>Air 3738389</u></p> <p>Signature <u>[Signature]</u> GLAS Air Aviation LLC</p>
4/6/2020	71.1	<p>I certify that this AIRCRAFT has been inspected in accordance with the scope and detail of CFR part 43, Appendix D, and was found to be in condition for safe operation. [Signature] AEP 2820087</p>

INSPECTION RECORD

F.A.R. 43.11-91.409

DATE	AIRCRAFT TIME IN SERVICE	KIND OF INSPECTION—STATUS & DISCREPANCY LIST SIGNATURE — CERT. NO. OF PERSON APPROVING OR DISAPPROVING AIRCRAFT FOR SERVICE
7/3/2021	116.1	I certify that this aircraft has been inspected in accordance with the scope and detail of CFR part 43, Appendix D and was found to be in condition for safe operation. <i>[Signature]</i> AEP 2820087
8/2/2022	169.1	I certify that this aircraft has been inspected in accordance with the scope and detail of CFR part 43, Appendix D and was found to be in condition for safe operation. <i>[Signature]</i> AEP 2820087
8/29/2023	222.2	I certify that this aircraft has been inspected in accordance with the scope and detail of CFR part 43, Appendix D and was found to be in a condition for safe operation. <i>[Signature]</i> AEP 2820087

scope
D,
safe
87

INSPECTION RECORD

F.A.R. 43.11-91.409

DATE

AIRCRAFT TIME
IN SERVICE

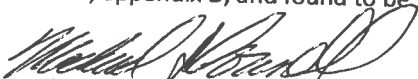
KIND OF INSPECTION—STATUS & DISCREPANCY LIST
SIGNATURE — CERT. NO. OF PERSON APPROVING OR DISAPPROVING AIRCRAFT FOR SERVICE

Connell Flying Service
1705 State Hwy 9
Decorah Municipal Airport
Decorah, Iowa 52101

Aircraft: N686D Date: 2/24/2025 TACH: 260.1 ACCTT: 260.1

Cleaned & Grease Wheel Bearings. Replaced 4) APS66-10500 w/ 8) Brake Rivets.
Replacement 1) MS28775-224 O ring (LH Main). Serviced Tires. Serviced Brake
Reservoir. Clean & Serviced Tail Wheel. Inspected Wings & Fuselage. Lubed Controls.
Checked all lights. Tested ELT Battery – Ops FAR 91.207(d) Ok. ELT Battery Expires: 12/1/2028.
Inspected Fuel Screens. Washed Aircraft.

I certify that this aircraft has been inspected in accordance with the scope and detail of CFR
Part 43, appendix D, and found to be in a condition for safe operation.


Michael J Connell – A&P3464399

INSPECTION RECORD

F.A.R. 43.11-91.409

KIND OF INSPECTION-STATUS & DISCREPANCY LIST
SIGNATURE — CERT. NO. OF PERSON APPROVING OR DISAPPROVING AIRCRAFT FOR SERVICE

DATE	AIRCRAFT TIME IN SERVICE	KIND OF INSPECTION-STATUS & DISCREPANCY LIST
3/8/26	315.9	<p>CONDITION INSPECTION — REMOVED ALL INSPECTION PANSERS AND ACCESS COVERS WING AND FUEL SYSTEMS — SATISFACTORY — FLOODED BRAKE FLUID RESERVOIR — INSPECTED WHEEL PANTS, BRAKES AND BRAKE PADS — STAMPED INFLATED TIRES TO 40 PSIG MAIN 70 PSIG ON TAIL WHEEL INSPECTION AND INSPECTED FUEL BOOST PUMP SCREEN — DP BEINGS INSPECTED</p>
		<p>DATE 3/8/26 TTE 315.9 TTA 315.9 I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IAW SCOPE/DETAIL OF APPDX D PART 43 & FOUND TO BE CONDITION FOR SAFE OPERATION O. J. [Signature] AIP # 2824451 3/8/26</p>