



AVIONICS MAINTENANCE RECORD

AIRCRAFT SERIAL AND REGISTRATION

R18202037

N705

Altitude	Room Temp	Lo Temp
-1000	0	
0	0	
500	+10	
1000	0	
1500	+10	
2000	0	
3000	+5	
4000	+10	
6000	+15	
8000	+25	
10000	+20	
12000	+15	
14000	+25	

ADD
AV 545.1
FLIGHTCRAFT, INC. / PORTLAND INTERNATIONAL AIRPORT
PORTLAND, OREGON 97218 (503) 281-

Description: Blind Enc.
 Manufacturer: Transcal Model: D120-P2-T
 Ser. No.: 52709 Date: 12-7-87
 This aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and found airworthy for return to service.

Overhauled	Repaired	Tested
	<u>MBE</u>	

Remarks: Certified to 20,000 ft.
 Pertinent details are on file at this agency under Work Order No. 75327 Signed: [Signature]
 FAA APPROVED REPAIR STATION NO. 4126

ACTUAL TRANSITION POINT
<u>15</u>
<u>20</u>
<u>20</u>

DATE: 11/7/88 N705
 Tested by: Depot:

MODEL D120-P2-T MODEL D120-P2-T MATCHED WITH U.I. 5934A ALT. S/N
 SERIAL NO. 66374 INSP. BY: [Signature] DATE 6-10-88

FORM M-100 Rev. D 1/22/87

N705 111-

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MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
19 <u>88</u> <u>11/7</u>	<u>315</u>		Remove Transcal Encoder - SN 52709 Install Transcal Encoder - SN 66374	<u>[Signature]</u> 534106057 564-10
			I CERTIFY THAT THE TRANSPONDER SYSTEM TESTS REQUIRED BY FAR 91.172 HAVE BEEN PERFORMED IAW FAR 43 APP. F. TRANSPONDER <u>KT 76A SN 47028</u> ENCODER <u>Transcal 66374</u> ON <u>11/4/88</u> BY <u>[Signature]</u> AERO MAINTENANCE INC. S64-10	I CERTIFY THAT THE ALTIMETER AND/OR STATIC SYSTEM TESTS REQUIRED BY FAR 91.171 HAVE BEEN PERFORMED IAW FAR 43 ALTIMETER SN <u>3D004</u> TESTED TO <u>20,000</u> FT. ON <u>11/7/88</u> BY <u>[Signature]</u> AERO MAINTENANCE INC. S64-10

MAINTENANCE RECORD

DATE	DESCRIPTION OF THE WORK PERFORMED	SIGNATURE OF WORKER (SEE PLATE 10) & NUMBER
Feb 24 2008	The battery pack is checked	
Feb 25 2008	The battery pack is replaced	
Feb 25 2008	The battery pack is checked	
Feb 25 2008	The battery pack is checked	
Feb 25 2008	The battery pack is checked	

SASKATOON AVIONICS LTD.
 1100 10th Ave S
 Saskatoon, SK S7N 3K5
 Tel: (306) 244-1100

THE SIGNATURE OF THE
 PERSON PERFORMING THE WORK
 MUST BE PLACED IN THE
 SPACE PROVIDED BY THE
 WORKER

Handwritten notes on the invoice:
 Replaced ELT battery (replace battery again June 2010) and complied with FAR 91 207
 per paragraph (d) and found to operate normally
 Mike Ward 577044110 LA *MWard*

VAL AVIONICS LTD.
 (306) 244-1100 1100th Ave S/A

N705
 TACH 2062 B

Date: 3/25/2008
 TTAF

PROVIDED SIGNATURE,
 CERTIFICATE TYPE
 & NUMBER

Replaced ELT battery (replace battery again June 2010) and complied with FAR 91 207
 per paragraph (d) and found to operate normally

Mike Ward 577044110 LA *MWard*

Tests and inspections required by FAR 43.297, 43.411 and 43.413 on the Altimeter, Static System, Automatic Altitude Reporting System and ADS. Inspections as appropriate have been performed and found to comply with FAR 43 Appendices C and D.

SYSTEMS INDICATED WERE TESTED THIS DATE 9/9/2008

- ALTIMETER ON: 10000 ENGINE/ALTIMETER ON: NA
 STATIC SYSTEM OUTSIDE ON: 10000

ALTIMETERS TESTED TO 24,000 FEET

TRANSPONDERS

- MODE 4096: MODEL, FTWV ON AFON
 MODE 40: MODEL, NA ON NA

SIGNATURE

Ricky E. Moore

WORK ORDER # 23742



AVIONICS, LTD.

3280 25th STREET S.E. - McNARY FIELD
 SALMON, OREGON 97302

W708

FAA REPAIR STATION
GA6R554N

TELEPHONE (503) 870-9400

SCALE CORRECTIONS. ALTIMETER No. 30004

Altimeter Reads	ACC		Altimeter Reads	ACC	
	Room Temp	Low Temp		Room Temp	Low Temp
0	+10		16000	-30	
500	0		18000	-35	
1000	+25		20000	-35	
1500	0		22000	-40	
2000	+25		25000	-45	
3000	+15		30000	-45	
4000	0		35000	-10	
5000	-10		36000	X	
6000	-20		40000	X	
10000	0		46000	X	
12000	-20		48000	X	
14000	-15		50000	X	



AVIONICS LTD.

McNary Field
 3280 25th St S.E.
 Salmon, OR 97302

GA6R554N

DATE September 9, 2008
 WCR 23742

TESTED BY
 W708

Ricky E. Moore

AUTHORIZED SIGNATURE,
 CERTIFICATE TYPE
 & NUMBER

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, IDENTIFICATION NUMBER & NUMBER
	HOURS	MIN.		
			<p align="center">GENMA 4198 444-7-1000007 7813, 402, 9786</p> <p>ENCIN 0801.0</p> <p>ROUTED POWER AND GROUND WIRES TO RIGHT PASS. AREA. REMOVED ONE EL F & T, ANTENNA AND REMOTE SWITCH. INSTALLED AIRTEL ONE AIR EL F, ANTENNA, BUZZER AND REMOTE SWITCH (ALL CUSTOMER PROVIDED). IAW INSTALL MANUAL, P/N 476-1000 REV. F AND AC43, 13 1B AND 2B.</p> <p>THE AVIONICS LTD. - 3200 26TH ST. SE SALEM, OR 97302 <i>Rich E. Moore</i></p> <p>OWN REPAIR STATION - 44478844</p> <p>0803-170-0002 0803-170-0003 BY 41980000</p>	

Altimeter indicates 30' high at sea level, not I/C/W 14 CFR 43 app E.
 Transponder frequency 4.2MHz high, power 14 Watts, not I/C/W 14 CFR 43 app F.
 Encoder indicates more than 127' higher than altimeter at 12k' and above.
 Static system C/W 14 CFR 43 app E.

Hidden Damage Inspection: None found.

Work Summary: Completed biannual inspection to comply with Title 14 CFR 91.411 and 91.413
 Completed altimeter baro adjustment I/A/W United Instruments maintenance manual.
 Tuned transponder, antenna, and mast. Completed frequency adjustment. Power still 15 Watts.
 Determined antenna and mast are good. Replaced transponder with serviceable unit.
 Completed encoder correspondence adjustment I/A/W TCI procedure.

Final Inspection: Annual inspected I/A/W Title 14 CFR 43 app E & F and complies with 14 CFR 91.411 & 91.413.

PARTS

DATE
19__

TOT/
IN S

HOUR

Altimeter Test 20K
 Work Order# 18311
 Make United Instruments
 Model 5934PA-1
 Serial Number 30004

Altitude X 1000	ERROR	Tolerance (+/-) Feet
-1.0	0	20
0.0	-5	20
0.5	0	20
1.0	+5	20
1.5	+5	25
2.0	+5	30
3.0	+5	30
4.0	0	35
6.0	0	40
8.0	-10	60
10.0	0	80
12.0	-5	90
14.0	0	100
16.0	-5	110
18.0	-15	120
20.0	-10	130

Freedom Avionics Company
 CRS#FDBR221K

Tested By: AS-13
 Date: 5-13-16

Encoder attached to system II Altimeter K ft.

No. Airport

20 Thousand Altitude Encoder/Encoding Altimeter Test

Work Order# 18311
 Aircraft Owner U.S. Dept. of Interior
 Address 300 E. Mallard Dr.
 Boise, ID 83706
 Aircraft Registration Number: N705
 Aircraft Make Cessna
 Aircraft Model R182

Altitude Encoder/Encoding Altimeter Model 5934PA-1
 Altitude Encoder/Encoding Altimeter Serial Number 30004

Altitude in Feet (Up)

	*		**
900	-50	850	± Ft.
1,900	-75	1,850	± Ft.
3,200	-60	3,150	± Ft.
4,300	-75	4,250	± Ft.
6,800	-100	6,750	± Ft.
10,500	-50	10,450	± Ft.
12,100	-60	12,050	± Ft.
14,700	60	14,650	± Ft.
16,400	-90	16,350	± Ft.
19,900	-100	19,850	± Ft.

Altitude in Feet (Down)

	*		**
900	+60	950	± Ft.
2,000	+45	2,050	± Ft.
3,300	+5	3,350	± Ft.
4,400	+25	4,450	± Ft.
6,900	+15	6,950	± Ft.
10,600	+45	10,650	± Ft.
12,200	+20	12,250	± Ft.
14,800	0	14,850	± Ft.
16,500	0	16,550	± Ft.
20,000	-20		± Ft.

Note: All altitudes are referenced at 29.92" barometric setting
 * = Log difference reading in feet.
 ** = 125 feet Δ = 70% of ten evenly spaced check points ≥ 87 feet ±

Freedom Avionics Company
 CRS#FDBR221K

Tested By: AS-13-16
 Date: 5-13-16

AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER



SCALE CORRECTIONS

Aircraft N#: 705R
 Altimeter S/N: 90004

Reads	Add	Reads	Add
-1000	0	10000	20
0	0	12000	20
500	0	14000	20
1000	0	16000	20
1500	0	18000	40
2000	20	20000	40
3000	20	22000	Z
4000	20	25000	
6000	20	30000	
8000	40	35000	

Date: 4-17-2019
 Tested By: NB

JLC Avionics CRS 9JAR3688
 433 Dead Indian Mem. Rd., Ashland, OR 97520
 541-488-1964

1. Approving Civil Aviation Authority/Country
Transport Canada

2. AUTHORIZED RELEASE FORM

4. Organizations Name and Address
 Technisonic Industries Ltd., 240 Traders Blvd, Mississauga, ON L4Z 1W7, Can

6. Item	7. Description	8. Part No.
1	TDFM-136B DIGITAL VHF/FM TRANSCEIVER	081252-1-10

12. Remarks
 MAINTENANCE PERFORMED I.A.W. DOCUMENT 082022-1-10M
 FINAL TEST PERFORMED I.A.W. DOCUMENT# 086470E

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

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

Non-approved design data specified in block 12.

14a. Certified has been

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
3/19/19	72.4	49.4	INSTALLED REPAIRED TDFM-1365 FM RADIO P/N 081252-1-10 S/N FB5457 TESTED RADIO AND ALL FUNCTIONS NORMAL 3675138A+P	

Pacific Coast Avionics
 Registration: N705R Make: CESSNA Model: R182 S/N: R-18202037 Aircraft Time: Hobbs: N/A Tach: 128.8
 Updated Garmin GTX 345 s/n 3EG024326 to main software version 2.54 and ADS-B version 3.13 IAW with Garmin Service Bulletin 2039, Rev B and Bulletin 1985 Rev A. NDN.
 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 Pacific Coast Avionics under Statewide Contract Services, work order 20-1283.
 Signature: Chad Robertson Date: 5/1/2020
 Page 1 of 1

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
			Performed 14 CFR 91.411 certification of the altimetry system. The altimeter, static system, and altitude reporting system have been tested and found to meet the requirements of 14 CFR Part 43 Appendix E to a pressure altitude of 20,000 feet. Performed 14 CFR 91.413 certification of the Garmin GTX 345 Transponder s/n 3EG9024326 and found the transponder to meet the requirements of 14 CFR Part 43 Appendix F. 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 Pacific Coast Avionics under Statewide Contract Services LLC, work order 23-14530. Signature: <u>Kate Albright</u> Date: <u>04/05/2023</u> Page 1 of 1	

