

Page No. _____

DESCRIPTION OF WORK PERFORMED—
SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK

DATE

AIRFRAME
TIME
IN
SERVICEAVIONICS
TIME
IN
SERVICE

A/C Cessna / TR182

Tach: 1134.0 Hobbs: 00590.6

N326AM

June 20, 2014

Transponder Make/Model **Garmin / GTX 330**, S.N. **84126676** in this A/C, has been inspected IAW Title 14 CFR 91.413 and found to comply with the specifications of Title 14 CFR 43 App. F.

Altimeter Make/Model **United / 5934PA-1** S.N. **T2276**

Encoder Make/Model **Ameriking AK350**, S.N. **36302**, and the Static System have been inspected IAW Title 14 CFR 91.411 and found to comply with the specifications of Title 14 CFR 43 App E.

Details on file MTSWO 40618.

CRS TJJR625X

Alan Spencer Inspector

Date 6-20-2014

Mobile Transponder Services, LLC, 6015 W Condor Rd. Peyton, CO 80831

Cessna / TR182

Tach: 1225.8 Hobbs: 00693.3

N326AM

September 30, 2016

Transponder Make/Model **Garmin / GTX 330**, S.N. **84126676** in this A/C, has been inspected IAW Title 14 CFR 91.413 and found to comply with the specifications of Title 14 CFR 43 App. F.

Altimeter Make/Model **United / 5934PA-1** S.N. **T2276**

Encoder Make/Model **Ameriking AK350**, S.N. **36302**, and the Static System have been inspected IAW Title 14 CFR 91.411 and found to comply with the specifications of Title 14 CFR 43 App E.

Details on file MTSWO 60938.

CRS TJJR625X

Alan Spencer - Inspector

Date 9-30-2016

Mobile Transponder Services, LLC, 6015 W Condor Rd. Peyton, CO 80831

Alan Spencer

719

338 3330

DATE	AIRFRAME TIME IN SERVICE	AVIONICS TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
			Date <u>APRIL 7, 2017</u> N# <u>326AM</u> Model <u>61X-345</u> S/N <u>3E6005048</u> Position <u>1</u> Model <u>—</u> S/N <u>—</u> Position <u>—</u> I certify that the above transponder(s) has been tested as required by CFR 91.413 in accordance with current Regulations of the Federal Aviation Agency and is approved for return to service. Pertinent details of this inspection are on file at this repair station under W/O# <u>17040701</u> Date <u>4/07/2017</u> Signed <u>[Signature]</u> Shenandoah Avionics, LLC. Repair Station # 2SAR659Y 63 Aviation Circle. Weyers Cave, Va. 24486

Shenandoah Avionics, LLC 63 Aviation Circle Weyers Cave, Va. 24486

N# 326AM

Date _____

Removed Gar
3EG005048, s
GPS/WAAS
#2 GPS/NAV
Garmin G110
appliance ide
Federal Avia

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ON WING LLC
CRS # 2OWR0084C
WORK ORDER 180425CRS1

¹ Start Date: <u>4-25-2018</u>	² Aircraft Registration: <u>N326AM</u>	³ Aircraft Owner: <u>CB AIRCRAFT INC.</u>	⁴ Location: <u>OKV</u>
⁵ Aircraft Manufacturer: <u>CESSNA</u>	⁶ Aircraft Model: <u>TR182</u>	⁷ Aircraft Serial Number: <u>R18201474</u>	
⁸ Aircraft Time: <u>1255.3</u>			
⁹ Description of Task: 14 CFR 91.411 Altimeter Inspection 14 CFR 91.413 Transponder Inspection			
¹⁰ Incoming Inspection (RSM 3.1): ☒		¹¹ Preliminary Inspection (RSM 3.1): ☒	
¹² Work Accomplished: 14 CFR 91.411 Altimeter Inspection IAW CFR 43 Appendix E Pass: ☒ Fail: ☐ 14 CFR 91.413 Transponder Inspection IAW CFR 43 Appendix F Pass: ☒ Fail: ☐			
¹³ Hidden Damage Inspection (RSM 3.1): NA: ☒ Accomplished: ☐		¹⁴ Final Inspection (RSM 3.1): ☒	
¹⁵ <u>George Murphy</u> Inspector's Signature		<u>4-25-2018</u> Date	

DATE

AIRFRAME
TIME
IN
SERVICEAVIONICS
TIME
IN
SERVICEDESCRIPTION OF WORK PERFORMED—
SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORKDate APRIL 7, 2017 N# 326AM
Model GTX-345 S/N 3EG005048 Position 1
Model — S/N — Position —

I certify that the above transponder(s) has been tested as required by
CFR 91.413 in accordance with current Regulations of the
Federal Aviation Agency and is approved for return to service.
Pertinent details of this inspection are on file at this repair station under

W/O# 17040701 Date 4/07/2017Signed [Signature]

Shenandoah Avionics, LLC. Repair Station # 2SAR659Y
63 Aviation Circle. Weyers Cave, Va. 24486

Shenandoah Avionics, LLC

63 Aviation Circle Weyers Cave, Va. 24486
540-908-6358

N# 326AMW/O # N/ADate 4/7/2017Hourmeter N/ATach 1238.8A/CTT N/A

Removed Garmin GTX330 transponder and installed Garmin GTX-345 ADS/B transponder, S/N
3EG005048, see approved 337 dated April 7, 2017. Removed and installed new L/H Garmin GA35
GPS/WAAS Antenna S/N 132577, new R/H Garmin GA35 GPS/WAAS Antenna S/N 134388. Removed
#2 GPS/NAV indicator. Moved #1 GPS/NAV indicator to #2 position. and installed new #1 Position
Garmin GI106A GPS/NAV Indicator S/N B10-10548. This aircraft, airframe, aircraft engine, propeller or
appliance identified above was repaired and inspected in accordance with current regulation of the
Federal Aviation Agency and is approved for return to service.

-----END-----

Signed [Signature]

Todd Ott
AP3653363

I CERTIFY THAT THE ALTIMETER SYSTEM AND ALTITUDE
REPORTING EQUIPMENT TESTS AND INSPECTIONS
REQUIRED BY 14 CFR 91.411, I.A.W. CFR 43 APPENDIX E,
HAVE BEEN PERFORMED. THE ALTIMETER(S) HAS BEEN
TESTED TO MAX ALTITUDE 20,000'

DATE 4-25-18 N# N326AM A/C Total Time 1255.3 TACH
INSPECTOR George Murphy
ON WING LLC CRS#20WR084C
FILED UNDER WORK ORDER # 180425 CRSI

I CERTIFY THAT THE TRANSPONDER TEST REQUIRED BY
14 CFR 91.413, I.A.W. CFR 43 APPENDIX F, HAS BEEN
PERFORMED.

DATE 4-25-18 N# N326AM
A/C Total Time 1255.3 TACH
INSPECTOR George Murphy
ON WING LLC CRS#20WR084C
FILED UNDER WORK ORDER # 180425 CRSI

CFR 91.413 in accordance with the Federal Aviation Agency and is approved for use. Pertinent details of this inspection are on file at this repair station.
W/O# 17040701 Date 4/07/2017
Signed [Signature]
Shenandoah Avionics, LLC. Repair Station # 2SAR659Y
63 Aviation Circle. Weyers Cave, Va. 24486

Shenandoah Avionics, LLC
24486

ON WING LLC
CRS # 2OWR0084C
WORK ORDER NUMBER 180425CRS1
ALTIMETER TEST SHEET
(All measurements in feet)

Ret
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GP
#2
Ga
api
Fo

1 ALTIMETER		
Make:	Model:	SN:
<u>U.I.</u>	<u>5934PA-1</u>	<u>T2270</u>

2 Aircraft Max. Altitude:	<u>20,000'</u>
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3 Pre-Test Ground Level:	<u>700'</u>
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4 Pitot Heat Operative	☒
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5 BAROMETRIC SCALE ERROR			
Pressure	Difference from 29.92	Ideal	Error +/-25
28.10	<u>-1720</u>	-1727	☒
28.50	<u>-1330</u>	-1340	☒
29.00	<u>-855</u>	-863	☒
29.50	<u>-380</u>	-392	☒
29.92	<u>-</u>	0	☒
30.50	<u>540</u>	531	☒
30.90	<u>900</u>	893	☒
30.99	<u>980</u>	974	☒

6 Leak Rate:	<u><100'/min</u>	ref. CFR
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7 Static System Serviceable	☒
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9 HYSTERESIS			
	40%	50%	+/- Tol.
Climb	<u>-10</u>	<u>-10</u>	
Descend	<u>+5</u>	<u>+5</u>	
Hysteresis	☒	☒	75

11 Post-Test Ground Level:	<u>705'</u>	
After Effect:	<u>+5'</u>	Tol. +/- 30

8 ALTIMETER SCALE ERROR					
Altitude	Scale	Encdr.	Friction		
@29.92	+/- Tol.	Error	+/-125	Value	+/-Tol.
-1000	20	<u>-10</u>	☒		
0	20	<u>-5</u>	☒		
500	20	<u>-5</u>	☒		
1000	20	<u>-5</u>	☒	<u>30</u>	70
1500	25	<u>-5</u>	☒		
2000	30	<u>-5</u>	☒	<u>20</u>	70
3000	35	<u>-5</u>	☒	<u>30</u>	70
4000	35	<u>-10</u>	☒		
5000				<u>30</u>	70
6000	40	<u>-10</u>	☒		
8000	60	<u>-10</u>	☒		
10000	80	<u>-10</u>	☒	<u>30</u>	80
12000	90	<u>-20</u>	☒		
14000	100	<u>-20</u>	☒		
15000				<u>40</u>	90
16000	110	<u>-30</u>	☒		
18000	120	<u>-70</u>	☒		
20000	130	<u>-80</u>	☒	<u>50</u>	100
22000	140		☐		
25000	155		☐		120
30000	180		☐		140
35000	205		☐		160
40000	230		☐		180
45000	255		☐		
50000	280		☐		250

10 Case Leak Test:	Pass ☒	Fail ☐
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12	<u>George Mung</u>	<u>4-25-18</u>
	Inspector's Signature	Date

Shenandoah Avionics, LLC, Form SA-RS-09
Altimeter and Pitot/Static System Test

Customer: <u>Charles Perry</u>	Work Order: <u>21062501</u>
Aircraft: <u>N 326AM</u>	Altitude Make/Model: <u>Cessna 182</u>
INSPECTION FINDINGS: <u>note found</u>	Square Number: <u>1</u>
Expected By: <u>Todd OTT</u>	Date: <u>06/25/2021</u>

TABLE I

Altitude (feet)	Equivalent pressure (inches of mercury)	Tolerance +/-	Altimeter Error	Encoder Error (Tol=125 ft)
-1,000	31.018	20	-5	-5
0	29.921	20	-5	-5
500	29.385	20	-5	-5
1,000	28.856	20	-5	-5
1,500	28.335	25	-5	-5
2,000	27.821	30	-5	-5
3,000	26.817	30	-5	-5
4,000	25.842	35	-10	-5
6,000	23.978	40	-20	-5
8,000	22.225	60	-20	-5
10,000	20.577	80	-15	-10
12,000	19.029	90	-20	-10
14,000	17.577	100	-20	-5
16,000	16.216	110	-35	+10
18,000	14.942	120	-40	+10
20,000	13.750	130	-4	+20
22,000	12.636	140		
25,000	11.104	155		
30,000	8.885	180		
35,000	7.041	205		
40,000	5.538	230		
45,000	4.355	255		
50,000	3.425	280		

TABLE III-FRICTION

Altitude (feet)	Tolerance (feet)	Reading
1,000	70	0
2,000	70	0
3,000	70	0
5,000	70	30
10,000	80	30
15,000	90	40
20,000	100	40
25,000	120	
30,000	140	
35,000	160	
40,000	180	
50,000	250	

TABLE IV-PRESSURE-ALTITUDE DIFFERENCE
(Scale Error Test)

Pressure (inches of Hg)	Altitude Difference (feet)	Result Tol +/- 20
28.10 -917	-1,727 -920	-3
28.50 -530	-1,340 -540	-10
29.00 -53	-863 -65	-12
29.50 +418	-392 +410	-8
29.92 810	0 800	-10
30.50 1341	+531 1330	-11
30.90 1703	+893 1690	-13
30.99 1784	+974 1775	-11

TABLE II-TEST TOLERANCES	
Test	Tolerance (feet)
Cage Leak Test <u>D</u>	100
Hysteresis Test:	
First Test Point <u>10K-10</u> (50 percent of maximum altitude)	75
Second Test Point <u>8K-15</u> (40 percent of maximum altitude)	75
After Effect Test <u>815 (45)</u>	30
STATIC LEAK <u>17</u>	100

Notes:

Final Inspection

[Signature]

6/25/2021