
AVIONICS MAINTENANCE RECORD

AIRCRAFT SERIAL AND REGISTRATION 18281688 N1176R

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
19				
			<p>I CERTIFY THAT THE TRANSPONDER TEST REQUIRED BY 14 CFR 91.413, I.A.W. CFR 43 APPENDIX F, HAS BEEN PERFORMED.</p> <p>DATE <u>6/9/22</u> N# <u>N1176R</u> A/C Total Time <u>1083.3</u> INSPECTOR <u>George Murphy</u> ON WING LLC CRS#20WR084C FILED UNDER WORK ORDER # <u>220609 CRS5</u></p>	<p>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 <u>20,000'</u></p> <p>DATE <u>6/9/22</u> N# <u>N1176R</u> A/C Total Time <u>1083.3</u> INSPECTOR <u>George Murphy</u> ON WING LLC CRS#20WR084C FILED UNDER WORK ORDER # <u>220609 CRS5</u></p>

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104 Grafton Drive Portsmouth New Hampshire 03801
FAA Certified Repair Station No. P49R490N

June 13, 2024 N1176R Cessna 182T S/N 18281688 Hobbs: 1494.7 WO: PCA-A3123

Performed 24 month certifications of the aircraft's static system, transponder, altitude reporting system, G1000 primary altitude system, and standby altimeter to 20K feet as required by FAR part 91.411 and 91.413, IAW FAR part 43 appendix E and F
The aircraft and/or components identified above were repaired in accordance with current FAR'S as well as manufacturer recommendations and are approved for return to service.

Authorized Signature: James Trainor

PCA
port city air
New Hampshire Helicopters
104 Grafton Drive, Portsmouth NH 03801
FAA Certified Repair Station No. P49R490N
Aircraft: N1176R Date: 6/13/2024
Altimeter: G1000

Test	Error	Test	Error
-1000	0	14,000	-15
0	0	16,000	-20
500	0	18,000	-30
1000	0	20,000	-30
1500	0	22,000	
2000	0	25,000	
3000	0	30,000	
4000	0	35,000	
6000	-10	40,000	
8000	-10	45,000	
10,000	-10	50,000	
12,000	-10		



PCA
port city air
New Hampshire Helicopters
104 Grafton Drive, Portsmouth NH 03801
FAA Certified Repair Station No. P49R490N
Aircraft: N1176R Date: 6/13/2024
Altimeter: Standby

Test	Error	Test	Error
-1000	-10	14,000	-80
0	-20	16,000	-60
500	-20	18,000	-60
1000	-20	20,000	-40
1500	-20	22,000	
2000	-20	25,000	
3000	-20	30,000	
4000	-20	35,000	
6000	-30	40,000	
8000	-50	45,000	
10,000	-80	50,000	
12,000	-80		

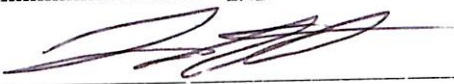
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19			<p>LANCASTER AVIONICS, INC. 500-U AIRPORT ROAD LITITZ, PA 17543 CRS# LN7R261N LOG ID# 6123 04-November-2019 WO# 24689/1 AC TT 1235.8 HOBBS 1235.8 N1176R S/N 18281688 CESSNA 182T</p> <p>**** ITEM # 24689-1 NOT RECEIVING XM **** DISCREPANCY: NOT RECEIVING XM. ACTION: RELOADED G1000 (CESSNA NAVIII) 0563.26 SOFTWARE AND CONFIGURATION FILES TO RESTORE GDL69 WEATHER OPS. ALL OPS CHECKS OK.</p> <p><i>Andrew W. Knowlton</i> ANDREW W KNOWLTON</p>	Pg 1 / 1
			<p>LANCASTER AVIONICS, INC. 500-U AIRPORT ROAD LITITZ, PA 17543 CRS# LN7R261N LOG ID# 6080 07-October-2019 WO# 24616 N1176R S/N 18281688 CESSNA 182T</p> <p>**** ITEM # 24616-1 INSTALL AVIONICS PER QUOTE **** DISCREPANCY: INSTALL AVIONICS PER QUOTE. ACTION: Removed Garmin GTX33 Transponder and installed Garmin GTX345R w/GPS Transponder & GA35 antenna IAW STC# SA01714WI. Inserted GTX345R/ADS-B Flight Manual Supplement in POH. GTX345R system was functionally tested and was found to perform its intended function with no adverse effects on other aircraft systems. COMPLIED WITH FAR 91.413 AND FAR 43, APPENDIX F 2YR TRANSPONDER CERT. TESTED GARMIN GTX345R TRANSPONDER FOR ADS-B COMPLIANCE. SYSTEM WAS FOUND TO COMPLY WITH AC20-165 and 14 CFR 91.225 & 91.227. Weight and Balance change negligible. Equipment list revised.</p> <p><i>Todd Adams</i> Todd Adams</p>	Pg 1 / 1

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19			<p>9-20-19 Hobbs: 1232.1 CESSNA 182T ENG HRS: 1070.2 N1176R Repair KAP 140 Autopilot for int. trim fail (not verified) by lubricating sticky yoke slides, INCREASE Pitch clutch torque to specs. (was low), INCREASE Pitch bridle cable tension (was low). inspect & clean pins on phys & pitch servo, trim servo, AP computer. Ramp test A.P. ops OK to MFG SPECS. REF. WLO 24572</p> <p>LANCASTER AVIONICS INC LANCASTER AIRPORT LITITZ, PA 17543 DATE 9-20-19 CERTIFICATE NO. LN7R261N SIGNED <i>James</i></p>	

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19			<p>Shenandoah Avionics, LLC 63 Aviation Circle Weyers Cave, Va. 24486 540-908-6358</p> <p>N# <u>1176R</u> W/O # <u>N/A</u></p> <p>Date <u>11/21/2017</u> Hourmeter <u>N/A</u> Tach <u>1030.4</u> A/CTT <u>N/A</u></p> <p>Removed in-op king KS270C pitch servo, P/N 065-00178-2200 and installed Factory overhauled King KS270C pitch servo, P/N 065-00178-2200, S/N 2734 under Honeywell Int. W/O # 7897392/330009595, operational checks normal. 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.</p> <p>-----END-----</p> <p>Signed  Todd Ott AP3653363</p>	

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19			<p>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 <u>20,000</u></p> <p>DATE <u>12/27/17</u> N# <u>1176R</u> A/C Total Time <u>Hobbs 1190.9</u> INSPECTOR <u>Robert Kline</u> ON WING LLC CRS#20WR084C FILED UNDER WORK ORDER # <u>171227</u></p> <p>I CERTIFY THAT THE TRANSPONDER TEST REQUIRED BY 14 CFR 91.413, I.A.W. CFR 43 APPENDIX F, HAS BEEN PERFORMED.</p> <p>DATE <u>12/27/17</u> N# <u>1176R</u> A/C Total Time <u>Hobbs 1190.9</u> INSPECTOR <u>Robert Kline</u> ON WING LLC CRS#20WR084C FILED UNDER WORK ORDER # <u>171227</u></p>	

MAINTENANCE RECORD

AUTHORIZED SIGNATURE,
CERTIFICATE TYPE
& NUMBER

February 26, 2016 N1176R C182T Tach: 970.6

1. Trouble shot why New avionics standby battery would not test.
2. Found if battery voltage is below preset value, system will default to failure mode.
3. Removed battery, charged and re-installed battery.
4. Tested system satisfactory.

Aero Services of Winchester, Inc.
615 Airport Road Suite 107
Winchester, VA 22602
540-665-0193

P. Daniel Poston A&P3494031

LANCASTER AVIONICS, INC. 500-U AIRPORT ROAD LITITZ, PA 17543 CRS# LN7R261N
LOG ID# 4408 08-August-2016 WO# 21239/1 HOBBS 1133.5
N1176R S/N 18281688 CESSNA 182T

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**** ITEM # 21239-1 REPAIR KAP140 AUTOPILOT ****

DISCREPANCY: AUTOPILOT DISPLAYS ERROR CODE "P" WITH CONSTANT ALARM TONE.

Model: KAP140

ACTION: OPS CHECKED AND CONFIRMED FAULT. ISOLATED FAULT TO THE PITCH SERVO, ONLY RUNS IN ONE DIRECTION. REMOVED DEFECTIVE KS270 PITCH SERVO, S/N 8445. INSTALLED OVERHAULED EXCHANGE KS270 PITCH SERVO, S/N 4075. AUTOPILOT RAMP CHECKS GOOD.

SCOTT KUHN

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19			<p>I CERTIFY THAT THE TRANSPONDER TEST REQUIRED BY 14 CFR 91.413, I.A.W. CFR 43 APPENDIX F, HAS BEEN PERFORMED</p> <p>DATE <u>9-19-16</u>, N# <u>1176R</u></p> <p>A/C Total Time <u>1143.0</u> Hobbs <u>3704358</u> <i>Repaired</i></p> <p>INSPECTOR <u>Pete R. Hobb</u></p> <p>ON WING LLC CRS#20WR084C</p> <p>FILED UNDER INVOICE# <u>0172</u></p>	<p>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 <u>20000</u></p> <p>DATE <u>9-19-16</u>, N# <u>1176R</u>, A/C Total Time <u>1143.0</u> <i>Repaired</i></p> <p>INSPECTOR <u>Pete R. Hobb</u> <u>3704358</u> <i>Repaired</i></p> <p>ON WING LLC CRS#20WR084C</p> <p>FILED UNDER INVOICE # <u>0172</u></p>

MAINTENANCE RECORD.

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11/21/2009	542	3	on 11/21/09 the CRS/Bare knobs on installed displays were checked for interference and none were found per Garmin Service Alert 0824	John H. Cantor
6/2/11	793	9	Aviation database updated → 6/30/11	
7/1/12	976	9	Database updated → 8/7/26/12	
8/23/12	987	8 (14)	Database updated → 9/20/12	
12/6/12	1001	7 (14)	" " 1/10/13	

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1/2/14	1045	0	Database updated → 2/6/13	
10/2/14	935	4	Databases updated → NOV 15, 2014	
			December 19, 2015 N1176R C182T Tach: 970.3	
			1. Serviced, charged and installed New Avionics standby battery.	
			Aero Services of Winchester, Inc. SN: 14A229	
			615 Airport Road Suite 107	
			Winchester, VA 22602	
			540-665-0193	
			Arthur L. Atwood II A&P 3168854	

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19			<div data-bbox="324 452 666 589" data-label="Image"> </div> <div data-bbox="983 424 1376 528" data-label="Text"> <p>Hagerstown Aviation Services, Inc. 18627 Jarkey Dr. Hagerstown, MD 21742 301-733-5200 / 301-733-6981 Fax CRS# XHGR343L</p> </div> <div data-bbox="329 564 1342 627" data-label="Text"> <p>Log Book Entry DATE <u>12-27-07</u> MAKE/MODEL <u>Cessna 182T</u> N# <u>N1176R</u> TACH/HOBBS <u>444.9</u></p> </div> <div data-bbox="329 622 1371 784" data-label="Text"> <p>I certify that the transponder test and inspection required by FAR 91.413 IAW Part 43, Appendix F and the altimeter and static system test required by FAR 91.411 IAW Part 43, Appendix E have been performed. The altimeter has been tested to: <u>20K</u> feet and test results are on file under shop order number: <u>70656</u> Authorized Signature: <u>[Signature]</u></p> </div> <div data-bbox="539 793 1181 835" data-label="Text"> <p>For Hagerstown Aviation Services, Inc. Repair Station # XHGR343L</p> </div> <tr> <td>6/28/08</td> <td></td> <td></td> <td> <p>Software installed in compliance with Service Bulletin SB08-34-03 Service Alert 0816 Re: Forward Looking Terrain Avoidance Alert over Open Ocean</p> </td> <td> <p>John B. Carter</p> </td> </tr>	6/28/08			<p>Software installed in compliance with Service Bulletin SB08-34-03 Service Alert 0816 Re: Forward Looking Terrain Avoidance Alert over Open Ocean</p>	<p>John B. Carter</p>
6/28/08			<p>Software installed in compliance with Service Bulletin SB08-34-03 Service Alert 0816 Re: Forward Looking Terrain Avoidance Alert over Open Ocean</p>	<p>John B. Carter</p>				