



TRIDENT

AIRCRAFT MAINTENANCE

9475 JET LANE EASTON, MD 21601

OFFICE: 443-385-0590

FAX: 443-385-0591

5800 AVIATION DRIVE MILTON, FL 32583

OFFICE: 850-626-2222

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**AVIONICS
MAINTENANCE
RECORDS**



AVIONICS MAINTENANCE RECORDS

(including transponder biennial checks)

Log No. _____

Aircraft Registration No. 41419

Aircraft Manufacturer Piper

Model PA28-140

Serial No. 28-7425237

EQUIPMENT LISTING

List all installed avionics, autopilot and flight director equipment.

	Mfg.	Model	Serial No.
1.	_____	_____	_____
2.	_____	_____	_____
3.	_____	_____	_____
4.	_____	_____	_____
5.	_____	_____	_____
6.	_____	_____	_____
7.	_____	_____	_____
8.	_____	_____	_____
9.	_____	_____	_____
10.	_____	_____	_____
11.	_____	_____	_____
12.	_____	_____	_____
13.	_____	_____	_____
14.	_____	_____	_____
15.	_____	_____	_____
16.	_____	_____	_____
17.	_____	_____	_____
18.	_____	_____	_____
19.	_____	_____	_____
20.	_____	_____	_____



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DATE	AIRFRAME TIME IN SERVICE	AVIONICS TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
11/15/18			Start New Log this Date Stacy Blackburn 3318734A&P

41419

MONARCH AVIATION REPAIR STATION # V9MR 280Y

The ATC Transponder and Automatic Pressure Altitude Reporting Equipment Tests and Inspections required by FAR 91.411 and 91.413 were performed on this date and found to comply with FAR Part 43 Appendix E and F.

Details of this inspection are held on file at Monarch Aviation, Inc.

on Work Order # 4032 Date Nov 16, 2018

Authorized Signature [Signature]

N41419 Piper PA-28-140 S/N: 28-7425237

Date: 25 April 2019 A/C Tach: 5114.08

Complied with ADSB out;

Removed the left wing tip. Removed the navigation light. Installed a new Skybeacon by uAvioni P/N: UAX9003-01 mod 3 S/N: 1003319. No extra Wiring was required, no change in the W&B required. FAA Form 337 was Filed. The installation was performed using the installation instructions provided By uAvioni and programed using the app provided on uAvioni web site. Re-installed the left wing tip.

Stacy Blackburn 3318734A&P



SSID: Beacon-E784
Pass: WingKnot

DATE

AIRFRAME
TIME
IN
SERVICEAVIONICS
TIME
IN
SERVICEDESCRIPTION OF WORK PERFORMED—
SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK

IFR CERTIFICATION - LOGBOOK ENTRY

DATE 02/20/2020 REG# N41419I CERTIFY THAT THE ALTIMETER, STATIC & TRANSPONDER
SYSTEM CHECKS REQUIRED BY FARs 91.411 & 91.413 HAVE
BEEN PERFORMED. THE ALTIMETER HAS BEEN TESTED TO:20,000 FT. AUTHORIZED SIGNATURE [Signature]TESTING BY: FLIGHT CONTROL SERVICES CRS#OFHR414L
5550 N AIRPORT ROAD * MILTON, FL 32583

IFR CERTIFICATION

FLIGHT CONTROL SERVICES CRS #OFHR414L
5550 N. AIRPORT RD MILTON FL 32583
(850) 865-2130

ALL TESTING IN ACCORD WITH FAR PART 41 APX E & F.

CASE LEAK @ 18K FT. 0 FOR 1 MINUTEHYSTERESIS 50% + 15 40% + 10AFTER EFFECT + 5 AFTER 5 MINUTES

BARO SCALE ERROR ENCODER ERROR

28.10 - 1735 ALT READS ENCODER READS28.50 - 1345 1300 - 9029.00 - 860 2600 - 9029.50 - 290 6800 - 7029.92 - 0 14800 - 12030.50 + 530 2000030.90 + 890 3070030.99 + 975 50000

TRANSPONDER TESTS

REPLY FREQ ☐ MTL TEST ☒ MODE A ☒
90% REPLY? ☒ SLS TEST ☒ MODE C ☒
SURPRESSION ☐ POWER ☐ MODE S ☐AUTHORIZED SIGNATURE [Signature]DATE OF TESTING 02/20/2020☐ FOR DUAL ALTIMETER SYSTEM PILOT'S
ALTITUDE ERROR IS RECORDED FIRST

ALTITUDE	LIMIT	ERROR	FRICTION
-1000	20	-10	
0	20	-5	
500	20	5	
1000	20	15	25
1500	25	20	
2000	30	20	25
3000	30	15	25
4000	35	10	
5000			25
6000	40	-5	
8000	60	-20	
10000	80	-20	25
12000	90	-25	
14000	100	10	
15000			30
16000	110	30	
18000	120	60	
20000	130	95	30
22000	140		
25000	155		
30000	180		
35000	205		
40000	230		
45000	255		
50000	280		

AIRCRAFT REG NUMBER N41419

IFR CERTIFICATION - LOGBOOK ENTRY

DATE 4/19/2022 REG# N41419I CERTIFY THAT THE ALTIMETER, STATIC & TRANSPONDER
SYSTEM CHECKS REQUIRED BY FARs 91.411 & 91.413 HAVE
BEEN PERFORMED. THE ALTIMETER HAS BEEN TESTED TO:20,000 FT. AUTHORIZED SIGNATURE [Signature]TESTING BY: FLIGHT CONTROL SERVICES CRS#OFHR414L
5550 N AIRPORT ROAD * MILTON, FL 32583

IFR CERTIFICATION

FLIGHT CONTROL SERVICES CRS #OFHR414L
5550 N. AIRPORT RD MILTON FL 32583
(850) 865-2130

ALL TESTING IN ACCORD WITH FAR PART 41 APX E & F.

CASE LEAK @ 18K FT. 0 FOR 1 MINUTEHYSTERESIS 50% + 20 40% + 20AFTER EFFECT + 35 AFTER 5 MINUTES

BARO SCALE ERROR ENCODER ERROR

28.10 - 1730 ALT READS ENCODER READS28.50 - 1335 1300 - 029.00 - 870 2600 - 029.50 - 395 6800 - 029.92 - 0 14800 - 030.50 + 535 2000030.90 + 895 3070030.99 + 975 50000

TRANSPONDER TESTS

REPLY FREQ ☐ MTL TEST ☒ MODE A ☒
90% REPLY? ☒ SLS TEST ☒ MODE C ☒
SURPRESSION ☐ POWER ☐ MODE S ☐AUTHORIZED SIGNATURE [Signature]DATE OF TESTING 4/19/2022☐ FOR DUAL ALTIMETER SYSTEM PILOT'S
ALTITUDE ERROR IS RECORDED FIRST

ALTITUDE	LIMIT	ERROR	FRICTION
-1000	20	0	
0	20	-15	
500	20	-10	
1000	20	0	30
1500	25	-5	
2000	30	+5	30
3000	30	0	30
4000	35	0	
5000			35
6000	40	-20	
8000	60	-80	
10000	80	-40	35
12000	90	-45	
14000	100	-30	
15000			40
16000	110	-20	
18000	120	-5	
20000	130	20	40
22000	140		
25000	155		
30000	180		
35000	205		
40000	230		
45000	255		
50000	280		

AIRCRAFT REG NUMBER N41419

DATE	AIRFRAME TIME IN SERVICE	AVIONICS TIME IN SERVICE
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DESCRIPTION OF WORK PERFORMED—
SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK

WO# 20804
IFR CERTIFICATION

FLIGHT CONTROL SERVICES CRS # OFHR414L
(850) 865-2130

SEE TESTS IN MANUAL WITH FAR PART 41.101 & 41.141

CASE LEAK @ 10K FT. 0 FOR 1 MINUTE
HYSTERESIS 50% + 15 40% + 10
AFTER EFFECT + 20 AFTER 5 MINUTES

DMMO SCALE ERROR/ENCODER ERROR

ALT. READS	ENCODER READS
28,10 - <u>1745</u>	1300 - <u>-50</u>
28,50 - <u>1355</u>	2600 - <u>-50</u>
29,00 - <u>875</u>	6800 - <u>-50</u>
29,50 - <u>400</u>	14800 - <u>-20</u>
29,92 - <u>0</u>	20000 - <u>70</u>
30,50 - <u>575</u>	30700 - <u>N/A</u>
30,90 - <u>875</u>	50000 - <u>N/A</u>
30,99 - <u>910</u>	

TRANSPONDER TESTS

REPLY FREQ ☒ MTL TEST ☒ MODE A ☒
90% REPLY? ☒ SLS TEST ☒ MODE C ☒
SUPPRESSION ☒ POWER ☒ MODE S ☒

AUTHORIZED SIGNATURE David W. Skelton

DATE OF TESTING 04-03-2024

☐ FOR DUAL ALTIMETER SYSTEM PILOT'S
ALTITUDE ERROR IS RECORDED FIRST

ALTITUDE	LIMIT	ERROR	REMARKS
1000	20	0	
0	20	-5	
500	20	-5	
1000	20	0	20
1500	25	0	
2000	30	0	25
3000	30	0	20
4000	35	0	
5000			20
6000	40	-10	
8000	50	-25	
10000	80	-30	40
12000	90	-25	
14000	100	-10	
15000			40
16000	110	10	
18000	120	130	
20000	130	170	40
22000	140		
25000	155		
30000	180		
35000	205	N/A	N/A
40000	230		
45000	255		
50000	280		

AIRCRAFT REG NUMBER N41419

IFR CERTIFICATION - LOGBOOK ENTRY

DATE 04-03-2024 REG# N41419

I CERTIFY THAT THE ALTIMETER, STATIC & TRANSPONDER
SYSTEM CHECKS REQUIRED BY FARs 91.411 & 91.413 HAVE
BEEN PERFORMED. THE ALTIMETER HAS BEEN TESTED TO:

20,000 FT. AUTHORIZED SIGNATURE David W. Skelton

TESTING BY: FLIGHT CONTROL SERVICES CRS#OFHR414L

WO: 20804

Date: 12-11-2024

Tail No.: N41419

Aircraft M/M: Piper PA-28-140

Aircraft S/N: 28-7425237

Tach: 552.59

FLIGHT CONTROL SERVICES OF FLORIDA, INC.

CRS# OFHR414L

Removed AT-50A transponder, S/N 26021. Installed AT-150 transponder as a form, fit & function replacement. Performed all necessary ground checks with ramp test set. All checks were satisfactory. No weight & balance update required.

David W. Skelton, CRS# OFHR414L
Flight Control Services of Florida, INC.
WO: 21147

[illegible]

