

THE **adlog**<sup>TM</sup> AIRCRAFT  
MAINTENANCE  
RECORDKEEPING  
SYSTEM

**AVIONICS  
MAINTENANCE  
RECORDS**

# AVIONICS MAINTENANCE RECORDS

(including transponder biennial checks)

Log No. \_\_\_\_\_

Aircraft Registration No. N110BW

Aircraft Manufacturer Cirrus Design

Model SR 20

Serial No. 1538

## EQUIPMENT LISTING

List all installed avionics, autopilot and flight director equipment.

	Mfg.	Model	Serial No.
1.			
2.			
3.			
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**AEROTECH PUBLICATIONS INC.**

P.O. Box 1359 / Southold, NY 11971-0965

(631) 765-9375

1-800-235-6444

FAX: (631) 765-9359

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DATE April 12 2011

AIR  
TI  
SEF

Mueller Avionics, Inc. CRS # QYVR044J			
P/N	ALT	FT	ERROR
15222-002	S/N 21		
	ALT	FT	ERROR
	-1000		+10
	0		+10
	500		0
	1000		0
	1500		-10
	2000		-10
	3000		-10
	4000		-10
	6000		0
	8000		0
	10000		Hys 50%
	12000		Hys 40%
	14000		Zero

Date Apr 12, 11 M. Lamm

Mueller Avionics, Inc. CRS # QYVR044J			
P/N	ALT	FT	ERROR
12731-002	S/N 445856		
	ALT	FT	ERROR
	-1000		+10
	0		0
	500		0
	1000		0
	1500		0
	2000		0
	3000		+10
	4000		+10
	6000		+10
	8000		+20
	10000		+10
	12000		+10
	14000		+20

Date Apr 12, 11 M. Lamm

Altitude Reporter & Static System tested in accordance with Part 43, Appendix "E" for compliance with FAR 91.411

Altitude tested to: 20K Work Order # 7363

Signature: M. Lamm  
MUELLER AVIONICS, INC. CRS # QYVR044J

Standby Alt PIN 12731-002 S/N 445856

July 16 2013

Model # GTX 327 Serial # S3720590

Aircraft N N110BW Date: July 16 2013

Transponder system tested in accordance with part 43,

Appendix "E" for compliance with FAR 91.413.

Signature: M. Lamm Work Order # 8373  
MUELLER AVIONICS, INC. CRS # QYVR044J

Primary N110BW

Mueller Avionics, Inc. CRS # QYVR044J			
P/N	ALT	FT	ERROR
15222-002	S/N 20234		
	ALT	FT	ERROR
	-1000		-10
	0		-10
	500		-10
	1000		-10
	1500		-10
	2000		-10
	3000		-10
	4000		-10
	6000		-20
	8000		-20
	10000		-10
	12000		-10
	14000		-10
Date	7/16/13	Volume Mark	

Date 7/16/13 M. Lamm

Standby N110BW

Mueller Avionics, Inc. CRS # QYVR044J				
P/N	ALT	S/N	ALT	
12731-002		445856		
FT	ERROR	FT	ERROR	
-1000	+10	16000	-20	
0	+10	18000	-20	
500	+10	20000	-40	
1000	+30	22000		
1500	+20	25000		
2000	+20	30000		
3000	+20	35000		
4000	+20	40000		
6000	+10	45000		
8000	+20	50000		
10000	+10	Hys 50%		+10
12000	+10	Hys 40%		+10
14000	+10			

Date 7/16/13 M. Lamm

Avionics/Airframe Log  
Tailwind Avionics  
Registration: N110BW  
Model: SR20  
S/N: 1538  
W/O#: 20-00003



Beaufort, NC 28516  
Date: 01/17/2020  
Total Time:  
Hobbs Time:  
Tach Time: 896.8

Repair station#: 38TR208

Removed GTX320 SN: 45428. Installed Stratus ESG IAW STC SA04112CH. Wired unit to encoder and installed GPS antenna. Setup unit IAW installation manual. MOC of system was ok 337 completed.

I certify that the maintenance operations outlined above were conducted IAW current federal regulations and are approved for return to service at this time.

Steven Ponder

DATE	AIRFRAME TIME IN SERVICE	AVIONICS TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK																																																																																																																																																																																																																																																	
			<p style="text-align: center;"><b>TAG-TRANALT-1 Transponder / Altimeter</b></p> <p>N-Number: N110BW    Hobbs or ATT: 0825.0    W/O # MEW 11172</p> <table border="1" style="width:100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th>#1 Altimeter</th> <th>#2 Altimeter</th> <th>#1 Transponder</th> </tr> </thead> <tbody> <tr> <td>Part # 15222-002</td> <td>Part # 501-011</td> <td>Part # 1412-00017</td> </tr> <tr> <td>Serial # 20234175</td> <td>Serial # 15541</td> <td>Serial # 02014</td> </tr> <tr> <td>Tested to 20000</td> <td>Tested to 20000</td> <td>Tested to 10000</td> </tr> <tr> <td colspan="2">Air Data Computer and/or Encoder</td> <td>Mode S Code 40001</td> </tr> <tr> <td>Part # 4-00</td> <td>Part # 4-00</td> <td>#2 Transponder</td> </tr> <tr> <td>Serial # 55542</td> <td>Serial # 55542</td> <td>Serial #</td> </tr> <tr> <td>Tested to 20000</td> <td>Tested to</td> <td>Tested to</td> </tr> <tr> <td>A/P Computer</td> <td>PN</td> <td>PN</td> </tr> <tr> <td>Alt Altimeter</td> <td>PN</td> <td>PN</td> </tr> <tr> <td>Status part damaged or repaired</td> <td>#1 NG</td> <td>#2 NG</td> </tr> </tbody> </table> <table border="1" style="width:100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th colspan="4">#1 Altimeter Correction Factor</th> <th colspan="4">#2 Altimeter Correction Factor</th> </tr> </thead> <tbody> <tr><td>0</td><td>-15</td><td>14,000</td><td>-15</td><td>0</td><td>-15</td><td>12,000</td><td>-15</td></tr> <tr><td>500</td><td>-10</td><td>14,000</td><td>-20</td><td>500</td><td>-10</td><td>12,000</td><td>-20</td></tr> <tr><td>1,000</td><td>-10</td><td>14,000</td><td>-20</td><td>1,000</td><td>-10</td><td>12,000</td><td>-20</td></tr> <tr><td>1,500</td><td>-10</td><td>12,000</td><td>-20</td><td>1,500</td><td>-10</td><td>10,000</td><td>-20</td></tr> <tr><td>2,000</td><td>-10</td><td>12,000</td><td>-20</td><td>2,000</td><td>-10</td><td>10,000</td><td>-20</td></tr> <tr><td>2,500</td><td>-10</td><td>12,000</td><td>-20</td><td>2,500</td><td>-10</td><td>10,000</td><td>-20</td></tr> <tr><td>3,000</td><td>-10</td><td>12,000</td><td>-20</td><td>3,000</td><td>-10</td><td>10,000</td><td>-20</td></tr> <tr><td>3,500</td><td>-10</td><td>12,000</td><td>-20</td><td>3,500</td><td>-10</td><td>10,000</td><td>-20</td></tr> <tr><td>4,000</td><td>-10</td><td>12,000</td><td>-20</td><td>4,000</td><td>-10</td><td>10,000</td><td>-20</td></tr> <tr><td>4,500</td><td>-10</td><td>12,000</td><td>-20</td><td>4,500</td><td>-10</td><td>10,000</td><td>-20</td></tr> <tr><td>5,000</td><td>-10</td><td>12,000</td><td>-20</td><td>5,000</td><td>-10</td><td>10,000</td><td>-20</td></tr> <tr><td>5,500</td><td>-10</td><td>12,000</td><td>-20</td><td>5,500</td><td>-10</td><td>10,000</td><td>-20</td></tr> <tr><td>6,000</td><td>-10</td><td>12,000</td><td>-20</td><td>6,000</td><td>-10</td><td>10,000</td><td>-20</td></tr> <tr><td>6,500</td><td>-10</td><td>12,000</td><td>-20</td><td>6,500</td><td>-10</td><td>10,000</td><td>-20</td></tr> <tr><td>7,000</td><td>-10</td><td>12,000</td><td>-20</td><td>7,000</td><td>-10</td><td>10,000</td><td>-20</td></tr> <tr><td>7,500</td><td>-10</td><td>12,000</td><td>-20</td><td>7,500</td><td>-10</td><td>10,000</td><td>-20</td></tr> <tr><td>8,000</td><td>-10</td><td>12,000</td><td>-20</td><td>8,000</td><td>-10</td><td>10,000</td><td>-20</td></tr> <tr><td>8,500</td><td>-10</td><td>12,000</td><td>-20</td><td>8,500</td><td>-10</td><td>10,000</td><td>-20</td></tr> <tr><td>9,000</td><td>-10</td><td>12,000</td><td>-20</td><td>9,000</td><td>-10</td><td>10,000</td><td>-20</td></tr> <tr><td>9,500</td><td>-10</td><td>12,000</td><td>-20</td><td>9,500</td><td>-10</td><td>10,000</td><td>-20</td></tr> <tr><td>10,000</td><td>-10</td><td>12,000</td><td>-20</td><td>10,000</td><td>-10</td><td>10,000</td><td>-20</td></tr> <tr><td>10,500</td><td>-10</td><td>12,000</td><td>-20</td><td>10,500</td><td>-10</td><td>10,000</td><td>-20</td></tr> <tr><td>11,000</td><td>-10</td><td>12,000</td><td>-20</td><td>11,000</td><td>-10</td><td>10,000</td><td>-20</td></tr> <tr><td>11,500</td><td>-10</td><td>12,000</td><td>-20</td><td>11,500</td><td>-10</td><td>10,000</td><td>-20</td></tr> <tr><td>12,000</td><td>-10</td><td>12,000</td><td>-20</td><td>12,000</td><td>-10</td><td>10,000</td><td>-20</td></tr> </tbody> </table> <p><b>Maintenance Log</b></p> <ul style="list-style-type: none"> <li>The Altimeters, Altitude Reporting, and Pilot Static System require 14 CFR 91.417. Have been performed and comply with 14 CFR 43.16.</li> <li>The ATC Transponder test and inspections required by 14 CFR 91.417 were performed on this date and found to comply with 14 CFR 43.16 Appendix F and paragraph C of Appendix.</li> <li>The work identified here was performed and inspected in accordance with current Federal Aviation Regulations and was found to be airworthy for return to service.</li> </ul> <p>Signature: <u>Seymour</u>    Employee # <u>359</u>    Date <u>08/25/21</u></p>	#1 Altimeter	#2 Altimeter	#1 Transponder	Part # 15222-002	Part # 501-011	Part # 1412-00017	Serial # 20234175	Serial # 15541	Serial # 02014	Tested to 20000	Tested to 20000	Tested to 10000	Air Data Computer and/or Encoder		Mode S Code 40001	Part # 4-00	Part # 4-00	#2 Transponder	Serial # 55542	Serial # 55542	Serial #	Tested to 20000	Tested to	Tested to	A/P Computer	PN	PN	Alt Altimeter	PN	PN	Status part damaged or repaired	#1 NG	#2 NG	#1 Altimeter Correction Factor				#2 Altimeter Correction Factor				0	-15	14,000	-15	0	-15	12,000	-15	500	-10	14,000	-20	500	-10	12,000	-20	1,000	-10	14,000	-20	1,000	-10	12,000	-20	1,500	-10	12,000	-20	1,500	-10	10,000	-20	2,000	-10	12,000	-20	2,000	-10	10,000	-20	2,500	-10	12,000	-20	2,500	-10	10,000	-20	3,000	-10	12,000	-20	3,000	-10	10,000	-20	3,500	-10	12,000	-20	3,500	-10	10,000	-20	4,000	-10	12,000	-20	4,000	-10	10,000	-20	4,500	-10	12,000	-20	4,500	-10	10,000	-20	5,000	-10	12,000	-20	5,000	-10	10,000	-20	5,500	-10	12,000	-20	5,500	-10	10,000	-20	6,000	-10	12,000	-20	6,000	-10	10,000	-20	6,500	-10	12,000	-20	6,500	-10	10,000	-20	7,000	-10	12,000	-20	7,000	-10	10,000	-20	7,500	-10	12,000	-20	7,500	-10	10,000	-20	8,000	-10	12,000	-20	8,000	-10	10,000	-20	8,500	-10	12,000	-20	8,500	-10	10,000	-20	9,000	-10	12,000	-20	9,000	-10	10,000	-20	9,500	-10	12,000	-20	9,500	-10	10,000	-20	10,000	-10	12,000	-20	10,000	-10	10,000	-20	10,500	-10	12,000	-20	10,500	-10	10,000	-20	11,000	-10	12,000	-20	11,000	-10	10,000	-20	11,500	-10	12,000	-20	11,500	-10	10,000	-20	12,000	-10	12,000	-20	12,000	-10	10,000	-20
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MAINTENANCE RECORD			
Page 1 of 1			
7-July-2021			N110BW Serial #1538
Aircraft Total:	Hobbs:	Make - Cirrus Design Corp	
Engine TSN: N/A	Tach meter:	Model- SR20	
Engine TSMO: N/A	Engine Serial # NA		
Work Order(s): 21.07.07			

The below listed items were accomplished in accordance with approved or acceptable data as applicable. Details are on file under the above work order number(s).  
 Work order numbers are shown in brackets [ ].  
 [21.07.07] Removed the Primary Flight Display SN: 20610116 for MOD 55 Upgrade through Avionics Source and Extant Aerospace Work Order 32081-25957RS dated 6-24-2021. Altimeter checked during MOD upgrade. Reinstalled same Unit back into aircraft.  
 - Removed S-Tec autopilot controller and reinstalled customer supplied Avidyne Digital Flight control DFC90 SN: M210593068 mated to S-Tec autopilot rack from upgrade Avionics Source. Also installed customer supplied Avidyne IFD 440 Upgrade from Avionics source. Configuration performed by Avionics Source through upgrade trade-in program.

Signed Mark Miller  
 SportairUSA  
 8222 Remount Road  
 North Little Rock, AR 72118

Mark Miller  
 FAA CRS 2SUR495B  
 Repairman 3537593

501-228-7777

MAINTENANCE RECORD			
Page 1 of 1			
21-July-2021			N110BW Serial #1538
Aircraft Total:	Hobbs:	Make - Cirrus Design Corp	
Engine TSN: N/A	Tach meter:	Model- SR20	
Engine TSMO: N/A	Engine Serial # NA		
Work Order(s): 21.07.07			

The below listed items were accomplished in accordance with approved or acceptable data as applicable. Details are on file under the above work order number(s).  
 Work order numbers are shown in brackets [ ].  
 [21.07.07] Removed the Primary Flight Display SN: 20610116 for MOD 55 Upgrade through Avionics Source and Extant Aerospace Work Order 32081-25957RS dated 6-24-2021. Altimeter checked during MOD upgrade. Reinstalled same Unit back into aircraft.  
 - Removed S-Tec autopilot controller and reinstalled customer supplied Avidyne Digital Flight control DFC90 SN: M210593068 mated to S-Tec autopilot rack from upgrade Avionics Source. Done in accordance with STC SA00296BO see 337 dated 21 July 2021  
 - Removed Garmin GNS 430 and installed customer supplied Avidyne IFD 440 Upgrade from Avionics source. Configuration performed by Avionics Source through upgrade trade-in program. Done in accordance with STC SA00343BO See 337 dated 21 July 2021

Signed Mark Miller  
 SportairUSA  
 8222 Remount Road  
 North Little Rock, AR 72118

Mark Miller  
 FAA CRS 2SUR495B  
 Repairman 3537593

501-228-7777

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

**ELITE**

AVIONICS

4331 John E. Godwin Jr. Memorial Dr.  
Scott City MO 63780  
80KR424D

Registration: N110BW Make&Model: CIRRUS DESIGN CORP SR20 S/N: 1538 Time: 1039.1

### Repairs / Maintenance

- Performed magnetometer calibration IAW Avidyne Envision installation manual 600-00141-010 Rev 5. Post cal ops check good.

Inspector [Signature] Date: 09-09-2021 W/O: 20119  
CRS80KR424D



**92nd WEST AVIATION, INC.**

1421 Lingo Road  
Lonoke, AR 72086  
(501) 676-1746

Date: 23 Sep 2021 Tach Time: 1049.5 N110BW Cirrus SR20

Removed existing GPS1 antenna and cable. Installed Garmin GA 35 TSO WAAS GPS Antenna SN: 202510 and RG400 coax cable in accordance with Cirrus Service Bulletin SB 2X-34-24 R1. Performed functional test. Returned aircraft to service.

[Signature]

Matthew Adamson A&P 3535243 IA

### MAINTENANCE RECORD

Page 1 of 1			N110BW Serial #1538
16-Nov-2023	Aircraft Total: 1183.0	Hobbs: 1183.0	Make -Cirrus Design Corp
Engine TSN: N/A	Engine TSMO: N/A	Tach meter:	Model- SR20
Work Order(s): 23.11.16	Engine Serial # NA		

The below listed items were accomplished in accordance with approved or acceptable data as applicable. Details are on file under the above work order number(s). Work order numbers are shown in brackets [ ].

[23.11.16] Performed Static and transponder checks to 20,000ft in accordance with FAR 91.411, FAR 91.413 and FAR 43 appendix E and F.

-Transponder Stratus ESG SN: 082074 Altimeter 1: EFIS Avidyne Primary Flight Display SN: 20610116, Stand-by altimeter: United Instruments SN: 455948.

Encoder : EFIS 1 Next due Nov 2025.

Signed [Signature]  
SportairUSA  
8222 Remount Road  
North Little Rock, AR 72118

501-228-7777

Mark Miller  
FAA CRS 2SUR495B  
Repairman 4340221

DATE

AIRFRAME  
TIME  
IN  
SERVICE

ED—  
FORMING WORK

N110BW Altimeter Correction Card

ALT. FEET	ALT. Reads	ALT FEET	ALT Reads
-1,000	-1,000	12,000	11,980
0	0	14,000	13,970
500	500	16,000	15,980
1,000	1,000	18,000	17,980
1,500	1,490	20,000	19,980
2,000	1,990		
3,000	2,990		
4,000	3,990		
6,000	5,980		
8,000	7,980		
10,000	9,980		

EFIS Avidine

Serial Number: 20610116

Sportair USA LC. FAA CRS# 2SUR495B

N110BW Altimeter Correction Card

ALT. FEET	ALT. Reads	ALT FEET	ALT Reads
-1,000	-980	12,000	11,980
0	20	14,000	13,960
500	500	16,000	15,960
1,000	1,000	18,000	1,800
1,500	1,500	20,000	20,000
2,000	2,000		
3,000	3,010		
4,000	4,000		
6,000	5,980		
8,000	7,980		
10,000	9,980		

Stand-by altimeter

Serial Number: 455948

Sportair USA LC. FAA CRS# 2SUR495B





US Department  
of Transportation  
Federal Aviation  
Administration

**MAJOR REPAIR AND ALTERATION**  
**(Airframe, Powerplant, Propeller, or Appliance)**

OMB No. 2120-0020  
Exp 01/31/2023

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. §44701). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a))

1. Aircraft	Nationality and Registration Mark <b>N100BW</b>	Serial No. <b>1538</b>
	Make <b>Cirrus Design Corp</b>	Model <b>SR20</b>
2. Owner	Name (As shown on registration certificate) <b>Brown Mark H</b>	Series
		Address (As shown on registration certificate) Address <b>400 W 18th St</b>
		City <b>Little Rock</b> State <b>AR</b>
		Zip <b>72206</b> Country <b>USA</b>


**3. For FAA Use Only**

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	<u>Cirrus Design Corp</u>	<u>(As described in Item 1 above)</u>	<u>1538</u>
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type Manufacturer		

**6. Conformity Statement**

A. Agency's Name and Address		B. Kind of Agency	
Name <b>SportairUSA</b>		<input type="checkbox"/> U. S. Certificated Mechanic	<input type="checkbox"/> Manufacturer
Address <b>8222 Remount Road</b>		<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.
City <b>North Little Rock</b> State <b>AR</b>		<input checked="" type="checkbox"/> Certificated Repair Station	<b>2SUR495B</b>
Zip <b>72118</b> Country <b>USA</b>		<input type="checkbox"/> Certificated Maintenance Organization	

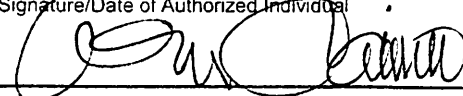
D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Extended range fuel per 14 CFR Part 43 App. B <input type="checkbox"/>	Signature/Date of Authorized Individual  <b>21 July 2021</b>
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**7. Approval for Return to Service**

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ Approved ☐ Rejected

BY	FAA Fit. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee <input checked="" type="checkbox"/>	Repair Station	Inspection Authorization	

Certificate or Designation No.	Signature/Date of Authorized Individual  <b>21 July 21</b>
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NOTICE

*Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.*

**8. Description of Work Accomplished**

*(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)*

USA N110WB

21 July 2021

Nationality and Registration Mark

Date

This System was installed in accordance with STC SA00343BO

A. Removed the following equipment:  
Garmin GNS 430

B. Installed the following equipment:  
Avidyne Integrated Flight Display IFD 440

C. Removed Garmin GNS 430 and installed Avidyne IFD 440 unit into same rack and no change to wire harness. Unit is a slide in replacement. Installed in accordance with STC SA00343BO

E. Flight manual Supplement: 600-00298-000 REV 09 has been inserted into the flight manual/pilot's manual.

F. The instructions for Continued airworthiness (ICA) AVIFD-315 REV 09 dated 04/07/19 has been provided to the aircraft owner/operator for incorporation into the aircraft maintenance program.

G. Negligible change to aircraft weight and balance.

J. Details on file under Work Order 21.07.07

☐ Additional Sheets Are Attached