

wo: WO_163

AIRBOSS

The Army at Airboss · 3N060 Powis Rd · West Chicago, IL 60185 · 8474140697

N647MD
Cirrus, SR20, S/N: 1772
HOBS: 1113.8
FLIGHT: 889.1

Removed Battery #2 p/n 50979-001. Installed 2 new each battery #2 p/n 50979-001. Operational check performed with no issues noted.

With respect to the work performed, this airframe is approved for return to service. Details of work performed are on file with The Army at Airboss under work order: WO_163.

[Signature]
 Christophe Merani Mechanic AP34354221A

March 19, 2025

Airframe · page 1 of 1

wo: WO_562

STEEL AVIATION

Steel Aviation · 53 North Street Ext · Phillipsburg, Ohio 45354 · 937 332 7587

N647MD
CIRRUS DESIGN CORP, SR20, S/N: 1772
TACH: 876.1
HOBS: 1094.1

1. CW AVIDYNE 10.3.1.2 IFD UPDATE I/A/W SB 601-00182-034. IFD 1&2.
 2. Trouble shoot ADSB FAULT, on IFD 550 FREE FLIGHT RANGER BOX not compatible with past IFD SW UPDATE : cntg RANGER ,ADSB out to CAP WX TR 34000 AND GPS IN ADAB+G 34000 as not to conflict with IFD 550 RS232 in/out put.

With respect to the work performed, this avionics is approved for return to service. Details of work performed are on file with Steel Aviation under work order: WO_562.

[Signature]
 Danny Potter A/P I/A 3176242

November 27, 2024

Avionics · page 1 of 1

wo: WO_562

STEEL AVIATION

Steel Aviation · 53 North Street Ext · Phillipsburg, Ohio 45354 · 937 332 7587

18. Re attached Pilot door seal when B pillar tape applied.

I certify that this AIRFRAME has been inspected in accordance with an (annual) inspection and was determined to be in airworthy condition. Details of work performed are on file with Steel Aviation under work order: WO_562.

[Signature]
 Jeff Pleiman A/P I/A 3304319

Airframe Annual · page 2 of 2

Section 1: Airframe Log



- Madison, WI 608-268-5003 Dane County Regional Airport (MSN)
- Watertown, WI 920-261-4567 Watertown Municipal Airport (RYV)
- Juneau, WI 920-386-2402 Dodge County Airport (UNU)

PLACEMENT

Date: 11/21/2025; Aircraft: N647MD; Type: CIRRUS SR20; S/N: 1772; Hobbs: 933.6; Total Time: 933.6; Engine - Type: IO-360-ES6, S/N: 360319, Time: 933.6; Prop - Type: PHC-J3YF-1RF, S/N: FP5374B, Time: 933.6

Airframe
 Completed an annual inspection in accordance with FAR 43, Appendix D (des). AD 24-24-11 (12/23/2024) Upper Power Lever inspection N/A by affected power lever part number not installed. Complied with AD 08-11-18 (7/07/2008) SR20 heat exchanger pressure test and inspection in accordance with Cirrus Service Bulletin 2X-78-07 Revision 1, 12/18/2007, no defects noted. Next due 1033.6 flight hobbs (des). Complied with instructions for continued airworthiness for LoPresti Boom Beam, no defects noted (des). Replaced ELT batteries p/n MN1300 with new. Next replacement due date 3/2034. Inspected and tested ELT in accordance with FAR 91.207(d), no defects noted (des). Removed aircraft battery p/n G-243, s/n G03174168. Completed battery capacity check. Battery checked normal and passed at 105%. Top charged battery and reinstalled (des). Inspected and weighed cabin fire extinguisher, no defects noted (des). Replaced induction air filter p/n BA-24 with new (des). Replaced strobe switch relay p/n RT314024F with new, cleaned all connection, ops check good (CSH). Replaced engine fuel sump p/n 39497-001 with new (jw). Replaced cowl seals p/n 53722-063U with new (DH). Replaced lower cowl strut seal p/n 20660-001 with new (jw). Replaced alternator #1 belt p/n 657504 with new (des). Replaced prop o-ring p/n MS28775-228 with new (jw). Replaced #2, #4, #6 cylinder fuel drain line p/n 642580 with new (des). Isolated and secured #2, #4, #6 cylinder baffle spring and rod (des). Replaced #5 cylinder drain line seal p/n 633958-2 with new (jw).
 Replaced left tire with new, p/n 156E66B1, s/n 51686382 and tube p/n 097-500-0. Cleaned, inspected, and repacked wheel bearings. Reinstalled wheel and tire assembly (jw). Replaced nose wheel right bearing cup p/n 08125 and race p/n 08231 with new (DH). Replaced nose wheel fork thrust washer p/n 50545-001 with new (BP). Replaced left and right brake linings p/n 066-10500 with new (des). Replaced right brake puck seals p/n 101-34500 with new (sdz). Secured left exhaust ground cable attach with a bolt (jw). Replaced mixture rod end p/n 11314-003 with new (jw). Inspected wing tip LED light installation to Cirrus Service Bulletin SB2X-33-08R3. Repaired incorrect wiring to Orion 600 wingtip light assembly. Connected static straps to light assembly. Installed wiring harness support and secured wire harness. Replaced corroded and worn hardware on wing tips. Finished SB2X-33-08R3 Orion Wing Tip Light Upgrade in accordance with instructions included in the service bulletin. Replaced battery 2 screws p/n NAS1801-08-24 with new (CSH). Isolated and secured free flight instrument box under pilot seat (jw). Replaced copilot door bottom latch p/n 21889-001 with new (jw). Performed ground run, operational, and leak checks - no defects noted. All work performed in accordance with approved/current technical data. I certify that this Aircraft has been inspected in accordance with an Annual inspection and was determined to be in airworthy condition.

Doug Seibel
 A&P389765035 IA *Doug W 1A389765035*

WISCONSIN AVIATION-FOUR LAKES, INC.

DESCRIPTION OF WORK DONE: **N647MD**

Removed transponder antenna and installed RAMI Transponder Antenna p/n 12739-001 in accordance with provided instructions. Removed GPS antenna and com antenna and installed Comant GPS/VHF antenna p/n 2580-200 s/n 763119 in accordance with Cirrus Service Bulletin SB2X-34-24R1. Calibrated GI275 in accordance with Garmin GI275 Maintenance Manual and the biennial. System check good in accordance with the biennial. System ramp checks satisfactory.

-----END-----

The aircraft component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Pertinent details are on file at this agency under the following work number.

DATE: 12/9/2025 Hobbs: 1174.1 WO#: AV25-2116 SIGNED: *[Signature]*

3632 Corben Ct. - Madison, WI 53704 - CRS No. DBKR124D
 (608) 268-5006 (608) 268-5038 FAX

ALTIMETER, STATIC, AND TRANPONDER CERTIFICATE

N647MD
ADC
Madison, WI 53704
608-268-5006

FAA CRS No. DBKR124D

Wisconsin Aviation - Four Lakes Inc.

Test Alt. x 1k Ft.	-1	0	.5	1	1.5	2	3	4	6	8	10	12	14	16	18
Tol. ± Ft.	20	20	20	20	25	30	30	35	40	60	80	90	100	110	120
Actual ± Ft.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Test Alt. x 1k Ft.	20	22	25	30	35	40	45	50	Case Leak	OK	Hysteresis Tol + 75 Ft.				
Tol. ± Ft.	130	140	155	180	205	230	255	260	Tol. 100 Ft.	70	50% Max	0			
Actual ± Ft.	0	X	X	X	X	X	X	X	Temp C	18	40% Max	0			

CERTIFIED STATIC PRESSURE SYSTEM PER FAR 43 APP. E (a)
 CERTIFIED ALTIMETER PER FAR 43 APP. E (b) TO (20) THOUSAND FEET.
 CERTIFIED AUTOMATIC PRESSURE ALTITUDE REPORTING EQUIPMENT PER FAR 43 APP. E (c).
 COMPLIED WITH RECORDS KEEPING PER FAR 43 APP. E (d).
 CERTIFIED TRANSPONDER SYSTEM PER FAR 43 APP. E.

MAKE: ACK
 MODEL: A-30
 S/N: 105181
 BLIND ENCODER

MAKE: Avidyne
 MODEL: AXP-322
 S/N: 06501
 TRANSPONDER

The aircraft and/or component identified hereon was repaired and inspected in accordance with the current maintenance rules of the Federal Aviation Regulations and is airworthy and approved for return to service.

Date: 12/9/2025 W.O.: AV25-2116 Hobbs: 1174.1 Signed: *DMR*

#2 TRANSPONDER
 MAKE: X
 MODEL: X
 S/N: X

ALTIMETER, STATIC, AND TRANPONDER CERTIFICATE

N647MD
GI275
Madison, WI 53704
608-268-5006

FAA CRS No. DBKR124D

Wisconsin Aviation - Four Lakes Inc.

Test Alt. x 1k Ft.	-1	0	.5	1	1.5	2	3	4	6	8	10	12	14	16	18
Tol. ± Ft.	20	20	20	20	25	30	30	35	40	60	80	90	100	110	120
Actual ± Ft.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Test Alt. x 1k Ft.	20	22	25	30	35	40	45	50	Case Leak	OK	Hysteresis Tol + 75 Ft.				
Tol. ± Ft.	130	140	155	180	205	230	255	260	Tol. 100 Ft.	70	50% Max	0			
Actual ± Ft.	0	X	X	X	X	X	X	X	Temp C	18	40% Max	0			

CERTIFIED STATIC PRESSURE SYSTEM PER FAR 43 APP. E (a)
 CERTIFIED ALTIMETER PER FAR 43 APP. E (b) TO (20) THOUSAND FEET.
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MAKE: ACK
 MODEL: A-30
 S/N: 105181
 BLIND ENCODER

MAKE: Avidyne
 MODEL: AXP-322
 S/N: 06501
 TRANSPONDER

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Date: 12/9/2025 W.O.: AV25-2116 Hobbs: 1174.1 Signed: *DMR*

#2 TRANSPONDER
 MAKE: X
 MODEL: X
 S/N: X

