

N456AK  
AIRCRAFT LOGBOOK





BY STAPLES

N456AK  
AIRFRAME LOGBOOK #2  
9/10/2017

## AIRCRAFT DESCRIPTION

MAN: CIRRUS DESIGN CORP

MODEL: SR20

DATE OF MFG: MAY 2008

SERIAL NUMBER: 1979

REGISTRATION ~~MAJ~~ N456AK

## EQUIPMENT

ENGINE TELEDYNE CONTINENTAL MOTORS

MODEL: IO-360-ES

SERIAL NO. 360677

HARTZELL PROPELLER

MODEL PHC I34F-IRF

SERIAL NO FP6595B

LIFE LIMITED PARTS SR20

PART #	EXPIRES
CAPS ROCKET MOTOR	
<del>21814-001 S/N 4040</del>	<del>12/17</del>
29554-001 S/N 2828	11/27
CAPS PARACHUTE	
<del>20331-001 S/N 03410</del>	<del>3/18</del>
25574-004-REB S/N 03813R1	12/27
CAPS REEFING LINE CUTTERS	
5212 LOT 705084 003-049	<del>12/2019</del> 6/2025
ELT BATTERY PACK	
452-6504 INSTALL 04/08	<del>3/2020</del> 5/2027
EMA CONTROLLER AAIR	07/2021
20902-001 S/N	
PILOT SEAT INFLATOR ASSY AAIR	
20902-002 S/N AA51320U 20013	<del>11/2018</del> <del>1-1-2020</del> 9/2029
CO PILOT SEAT INFLATOR ASSY AAIR	
20902-002 S/N AA51320U 20003	<del>11/2018</del> <del>1-1-2020</del> 9/2029

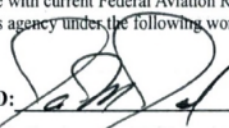


**WISCONSIN AVIATION FOUR LAKES, INC.****DESCRIPTION OF WORK DONE:****N456AK**

Moved GTX-345 power from cirrus radio rack and ran it directly to the breaker panel. Ops check normal.

-----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: 9-13-2017 HOBBS: 647.4 WO#: AV17-15605 SIGNED: 3606 Corben Ct. - Madison, WI 53704 - CSR No. DBKR124D  
(608) 268-5006 (608) 268-5038 FAX**WISCONSIN AVIATION FOUR LAKES, INC.****DESCRIPTION OF WORK DONE:****N456Ak**

Leveled GTX 345 AHRS. R&amp;R left power quadrant plastic overlay panel with Cirrus original replacement. Ops check good.

-----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: November 8, 2017 HOBBS:          WO#: AV17-15687 SIGNED: 3606 Corben Ct. - Madison, WI 53704 - CSR No. DBKR124D  
(608) 268-5006 (608) 268-5038 FAX*Hobbs 886.9 Flight 651.8***Travel Express Aviation Maintenance, Inc.**

DuPage Airport, West Chicago, IL 60185

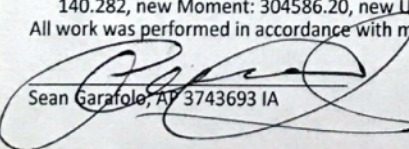
Date: 12/15/2017 Aircraft: N456AK Model: Cirrus SR20 Serial: 1979 Invoice: 8447

Hobbs: 893.2 Flight Hobbs: 655.7

The following work was accomplished:

- Complied with SB2X-95-18R4, eff. 8/31/2017, CAPS Rocket Motor Assembly Replacement. Removed parachute P/N 20331-001/D, S/N 03410, and rocket assembly P/N 21814-001, S/N 4040 and replaced with new rocket P/N 29554-001, S/N 2828 exp. 11/8/2027, new parachute P/N 25574-004-REB, S/N 03813R1 packed 12/5/2017, with new pickup collar P/N 29517-005 Rev D, S/N 03813R1 and new igniter lot 170512. Packed parachute assembly certified by Cirrus Design Corporation, 4515 Taylor Cr, Duluth MN 55811, PC#338CE, WO#167114; see FAA Form 8130-3 dated 12/11/2017 for details. Inserted temporary TPOH 13-06R1 into POH.
- Complied with SB2X-95-24, eff. 11/6/2017, CAPS Rocket Shelf Ground Wire by installing new kit P/N 70572-001.
- Calculated and recorded new Weight and Balance and entered into POH; new Empty Weight: 2171.24 lbs., new CG Arm: 140.282, new Moment: 304586.20, new Useful Load: 828.76 lbs.

All work was performed in accordance with manufacturer's specifications and Federal Aviation Regulations.

  
Sean Garafolo, AP 3743693 IA

END



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**WISCONSIN AVIATION FOUR LAKES, INC.****DESCRIPTION OF WORK DONE:****N456AK**

Installed (2) 20 uH chokes on GTX 345 power and ground line to eliminate slight audio noise generating from GTX 345 installation. Leveled GTX 345 AHRS. R& plastic overlay panel with Cirrus original replacement. Ops check good.

-----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: November 8, 2017 HOBBS: WO#: AV17-15687 SIGNED: 

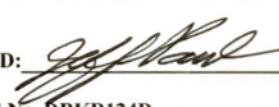
3606 Corben Ct. - Madison, WI 53704 - CRS No. DBKR124D  
(608) 268-5006 (608) 268-5038 FAX

**WISCONSIN AVIATION FOUR LAKES, INC.****DESCRIPTION OF WORK DONE:****N456AK**

Replaced static line that had been pulled out of the standby altimeter. Calibrated standby altimeter.  
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. F.

-----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.

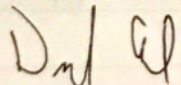
DATE: 5-17-2018 HOBBS: 665.8 WO#: AV18-15904 SIGNED: 

3606 Corben Ct. - Madison, WI 53704 - CRS No. DBKR124D  
(608) 268-5006 (608) 268-5038 FAX

Date: 6/01/2018; Aircraft: N456AK; Type: CIRRUS SR20; S/N: 1979; Hobbs: 665.8; Total Time: 659.5; Engine - Type: IO-360ES21, S/N: 360677, Time: 659.5; Prop - Type: PHC-J3YF-1RF, S/N: FP6595B, Time: 659.5  
\*\*\*Airframe\*\*\*

Completed an Annual inspection in accordance with FAR 43, Appendix D. Completed Instructions for continued airworthiness for AmSafe Restraints, defects noted and repaired. Complied with Cirrus SB 2X-32-19R3 (6/28/12) Nose Landing Gear Assembly Inspection and Reinforcement, no defects noted. Inspected and tested ELT in accordance with FAR 91.207(d), no defects noted. Next due 5/19. ELT battery due 3/20. Gained access to inflators found original expiration date is 1/1/2015. Original a 7 year life limit now a 12 year life limit. Inflators are due 1/1/2020. Note: per Cirrus Tech Support when the bottles are changed to p/n 20902-005 the life limit is 10 years. Inspected and weighed cabin fire extinguisher, no defects noted. Replaced induction air filter p/n BA-24 with new. Replaced #2 batteries p/n 50979-001 with new. Disconnected connectors, inspected wiring and connectors. No defects noted. Reconnected connectors with contact enhancer. Isolated and secured oil pressure wiring. Serviced new battery p/n G243, s/n G02999702 with acid and charged in accordance with Gill Activation and Service instructions. Installed battery in aircraft. Operational check normal. Replaced left tire with new, p/n 156E66-4, s/n 80422033, and tube p/n GL- 6020.. Cleaned, inspected and repacked wheel bearings. Reinstalled wheel and tire assembly. Replaced right tire with new, p/n 156E66-4, s/n 80422077, and tube p/n GL- 6020.. Cleaned inspected and repacked wheel bearings. Reinstalled wheel and tire assembly. Replaced left and right brake linings p/n 066-10500 with new. Replaced left and right brake linings rivets p/n 105-00200 with new. Replaced left and right brake pistons o rings p/n 101-34500 with new. Replaced nose gear fork spring washers p/n 51853-001 with new. 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

 1A389765035

☐ Wisconsin Aviation - Madison  
3606 Corben Court  
Madison, WI 53704  
608-268-5003



☐ Wisconsin Aviation - Watertown  
1741 River Drive  
Watertown, WI 53094  
920-261-4567

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## WISCONSIN AVIATION FOUR LAKES, INC.

## DESCRIPTION OF WORK DONE:

N456AK

Removed transponder pn:011-003302-00 sn:3EG005316 and installed overhauled transponder pn:011-003302-00 sn:3EG010427 in accordance with Garmin MM 6.3 Ops check normal.  
 COMPLIED WITH RECORDS KEEPING PER FAR 43 APP. E (d).  
 CERTIFIED TRANSPONDER SYSTEM PER FAR 43 APP. F.

-----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: 6-8-2018 HOBBS: 665.8 WO#: AV18-15904 SIGNED: 

3606 Corben Ct. - Madison, WI 53704 - CRS No. DBKR124D  
 (608) 268-5006 (608) 268-5038 FAX

## WISCONSIN AVIATION FOUR LAKES, INC.

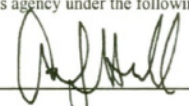
## DESCRIPTION OF WORK DONE:

N456AK

Removed audio panel Garmin GMA-340 pn:011-00401-10 sn:96284032 and installed new audio panel PS Engineering PMA-450B pn:050-450-0601 sn:P45B1586-ST. Ops check normal.

-----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: 6-12-2018 HOBBS: 665.8 WO#: AV18-15939 SIGNED: 

3606 Corben Ct. - Madison, WI 53704 - CRS No. DBKR124D  
 (608) 268-5006 (608) 268-5038 FAX

Date: 6/18/2018; Aircraft: N456AK; Type: CIRRUS SR20; S/N: 1979; Hobbs: 666.1; Total Time: 659.8; Engine - Type: IO-360ES21, S/N: 360677, Time: 660.1; Prop - Type: PHC-J3YF-1RF, S/N: FP6595B, Time: 660.1

## \*\*\*Airframe\*\*\*

Replaced #5 CHT probe p/n 16578-001 with new.

Randall Effinger  
 A&P 3439510 IA 

☐ Wisconsin Aviation - Madison  
 3606 Corben Court  
 Madison, WI 53704  
 608-268-5003

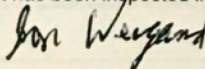


☐ Wisconsin Aviation - Watertown  
 1741 River Drive  
 Watertown, WI 53094  
 920-261-4567

Date: 4/19/2019; Aircraft: N456AK; Type: CIRRUS SR20; S/N: 1979; Hobbs: 703.5; Total Time: 697.2; Engine - Type: IO-360ES21, S/N: 360677, Time: 697.5; Prop - Type: PHC-J3YF-1RF, S/N: FP6595B, Time: 697.5  
 Hobbs: 967.2 Flight Hobbs: 703.5

## \*\*\*Airframe\*\*\*

Completed an Annual inspection in accordance with FAR 43, Appendix D. Complied with instructions for continued airworthiness for AmSafe Restraints. Inspected and tested ELT in accordance with FAR 91.207(d), no defects noted. Next due 4/2020 ELT battery due Mar 2020. Replaced Cabin fire extinguisher with new p/n 12533-004. Replaced Purolator fuel filter with new p/n 18372-001. Removed left cabin door seal and replaced with new p/n 53168-125U. Replaced cowl aft seal p/n 53722-063U with new. Replaced induction air filter p/n BA-24 with new. I certify that this Aircraft has been inspected in accordance with an Annual inspection and was determined to be in airworthy condition.

 IA 3678294

Jon Weigand  
 A&P 3678294

☐ Wisconsin Aviation - Madison  
 3606 Corben Court  
 Madison, WI 53704  
 608-268-5003



☒ Wisconsin Aviation - Watertown  
 1741 River Drive  
 Watertown, WI 53094  
 920-261-4567

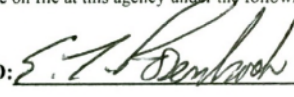


**WISCONSIN AVIATION FOUR LAKES, INC.****DESCRIPTION OF WORK DONE:****N456AK**

Removed GTX 345 p/n: 011-03302-00 s/n: 3EG010427. Installed new GTX 345 p/n: 011-03302-00 s/n: 3EG026674. System ramp checks satisfactory in accordance with part 43 app F and installation manual. Checked aileron servo startup voltages and found them to be 4.9/4.3. Indication of a possible servo replacement at the next annual. System ramp checks satisfactory otherwise.

-----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: 6/7/19 HOBBS: 982.9 WO#: AV19-16570 SIGNED: 

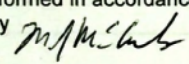
3606 Corben Ct. - Madison, WI 53704 - CRS No. DBKR124D  
(608) 268-5006 (608) 268-5038 FAX

Date: 6/13/2019; Aircraft: N456AK; Type: CIRRUS SR20; S/N: 1979; Hobbs: 715.8; Total Time: 709.5  
Flt: 715.8 Hobbs: 986.8.

**\*\*\*Airframe\*\*\***

Cleaned and applied Stabilant 22 to the following connectors: J100/P100, J137/P137 and ammeter connector inside MCU. Cleaned and applied Stabilant 22 to 3 connectors on DAU (MJM). Adjusted upper and lower door latches (TW). Ground run for functional check normal.

All work performed in accordance with approved/current technical data.

Martin McCauley  
AP36545521A 

 Wisconsin Aviation - Madison  
3606 Corben Court  
Madison, WI 53704  
608-268-5003



☐ Wisconsin Aviation - Watertown  
1741 River Drive  
Watertown, WI 53094  
920-261-4567





Aircraft #: N456AK

Model: Cirrus SR20

Date: 3/18/2020

Serial #: 1879

WO#: 20-081

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TTAF: 743.8 Hobbs: 1030.1 EngTT: 743.8 EngTSO: N/A PropTT: 743.8 PropTSO: N/A

This aircraft has been given an annual inspection in accordance with the manufacturer's checklist and following the guidelines of the F.A.R. Part 43, Appendix D, and Part 91, Subpart E.

- Removed ELT battery and replaced with new P/N 452-6499 Rev F, S/N 385522-026, exp 05/2027. Accomplished inspection of the ELT per FAR 91.207 (d), 1, 2, 3, and 4. Next due 03/2021.
- Removed induction air filter and replaced with new P/N BA-24. Next due 03/2021 or at Flight Hobbs 843.8.
- Removed #2 batteries and replaced with new P/N 50979-001. Next due 03/2022 or at Flight Hobbs 1243.8.
- Removed fire extinguisher, weighed at 2lbs 7.7oz, and reinstalled; okay for service. Next due 03/2021. Replacement due 04/2031.
- Removed gascolator filter and replaced with new P/N 18372-001. Next due 03/2021.
- Removed oil quick drain and replaced with new P/N S6250.
- Removed ELT remote control battery and replaced with new P/N 28L. Next due 03/2025.
- Complied with GTX 345 ADS-B ICA.
- Re-safety-wired crankcase plug to crankcase bolt as required.
- Resecured LH and RH main landing gear upper strut grommets as required.
- Adjusted LH and RH aileron stops and verified travels as required.
- Verified flap rigging; okay for service.
- ADs were checked through 2020-06.

All work was performed in accordance with manufacturer's specifications and with current Federal Aviation Regulations. I certify that this AIRFRAME has been inspected or repaired in accordance an annual inspection and was determined to be in AIRWORTHY condition.

Signed:

Christophe Merani, 3435422 IA

END

MAKE: Cirrus Design Corp  
MODEL: SR20  
S/N: 1979  
REG. NO: N456AK  
WORK ORDER: 8782-04-2020



J.A. Air Center

Repair Station No. NF2R029L  
43W730 US RT 30  
Sugar Grove, Illinois 60554  
Phone: 630.584.3200

DATE: 12 May, 2020  
AC TSN: 620.3  
HOBBS: 1041.4

**Airframe Entries**

- 1 Unit sent to Air Dallas for overhaul. Overhaul under Air Dallas WO#96083
- 2 Complied with Altimeter & Static Tests to 20,000 feet in accordance with Part 43 appendix E paragraphs (a) and (b), as required by 14 CFR 91.411, using the procedure as defined in ASTM Standard F3229/F3229M-F, titled "Standard Practice for Static Pressure System Tests in Small Aircraft" this date  
Avidyne 700-00006-000 S/N 26563464  
United 5934AD-3 A.258G S/N 467231  
  
Complied with Altitude reporting system and transponder tests to 20,000 feet in accordance with Part 43 appendix F as required by 91.413.  
Garmin GTX-345 Transponder S/N 3EG005729

**Maintenance Release**

The aircraft, engine, appliance or component identified was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and was found Airworthy for return to service. Pertinent details of the repair are on file at this repair station CRS NF2R029L and EASA 145.5424 under Work Order No. 8782-04-2020, Dated 12 May, 2020.

DATE: 12 May, 2020

SIGNED:

Mark Herrmann  
Certified Repair Station No. NF2R029L

Work Order: 8782-04-2020

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**J.A. Air Center**  
**FAA Repair Station NF2RO29L**  
**Altimeter Calibration**

MFG : United MDL : 5934AD-3 SN : 467231

Scale Error		Friction		Barometric Scale Error	
Altitude	Error	Altitude	Error	Pressure	Error
-1,000	-15	1,000	10	28.10	0
0	0	2,000	20	28.50	0
500	10	3,000	20	29.00	0
1,000	10	5,000	20	29.50	0
1,500	20	10,000	30	29.92	0
2,000	15	15,000	30	30.50	0
3,000	20	20,000	30	30.90	0
4,000	20	25,000	0	30.99	0
6,000	0	30,000	0	Hysteresis	
8,000	-10	35,000	0	50%	-20
10,000	-20	40,000	0	40%	-25
12,000	-25	50,000	0	After Effect	0
14,000	-20			Case Leak	0
16,000	-5				
18,000	15				
20,000	5				
22,000	0				
25,000	0				
30,000	0				
35,000	0				
40,000	0				
45,000	0				
50,000	0				

ALTIMETER TESTED IN  
 ACCORDANCE WITH PART 43,  
 APPENDIX 'E' TO COMPLY WITH FAR  
 91.411

Date 5/12/20

WO# 8782-04-2020

INSP. *[Signature]*

**J.A. Air Center**  
**FAA Repair Station NF2RO29L**  
**Altimeter Calibration**

MFG : Avidyne MDL : 700-00006-000 SN : 26563464

Scale Error		Friction		Barometric Scale Error	
Altitude	Error	Altitude	Error	Pressure	Error
-1,000	-10	1,000	0	28.10	0
0	-10	2,000	0	28.50	0
500	-10	3,000	0	29.00	0
1,000	-10	5,000	0	29.50	0
1,500	-10	10,000	0	29.92	0
2,000	-10	15,000	0	30.50	0
3,000	-10	20,000	0	30.90	0
4,000	-10	25,000	0	30.99	0
6,000	-10	30,000	0	Hysteresis	
8,000	-10	35,000	0	50%	-10
10,000	-10	40,000	0	40%	-10
12,000	-10	50,000	0	After Effect	-10
14,000	-10			Case Leak	0
16,000	-10				
18,000	-10				
20,000	-10				
22,000	0				
25,000	0				
30,000	0				
35,000	0				
40,000	0				
45,000	0				
50,000	0				

ALTIMETER TESTED IN  
 ACCORDANCE WITH PART 43,  
 APPENDIX 'E' TO COMPLY WITH FAR  
 91.411

Date 5/12/20

WO# 8782-04-2020

INSP. *[Signature]*