

Airborne

Air Filter Change Reminder

Changed at: Next Change:

185.1 Hrs. Hrs.

5-10-02 Date



AIRCRAFT LOG
AF5-1

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Aero Products Corporation
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AIRCRAFT DESCRIPTION

Cirrus Design Corporation

Model SR20

Date of MFG 6/2000

1042

Registration Number N811WM

inspection Status

[Check one]

☐

F.A.R. 91.409 ANNUAL/100 HOUR

☐

F.A.R. 91.409 PROGRESSIVE

☐

F.A.R. 135.419 A.T.C.O.

☐

OTHER

DATE ENTERED

MAINTENANCE RESPONSIBILITY

INSTALLED EQUIPMENT

ITEM	MANUFACTURER	MODEL	SERIAL NO.
ENGINE	Teledyne Continental Motors	IO360ES6B	R 357185
ENGINE			L
ENGINE			R
ENGINE			L
PROPELLER	Hartzell Propeller Inc.	PHC-J34F-1MF	JL274
PROPELLER			
ENGINE			
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PROPELLER			

LIFE LIMITED PARTS OR OVERHAUL REQUIREMENTS

	PART NUMBER	SERIAL NUMBER	INSTALLATION DATE/HOURS	TIME ON PART AT INSTALL.	LIFE LIMIT OR T.B.O.	REMOVAL DATE/HOURS	AGENCY CERT. NO.
100 Power Unit		S/N 00040	03/2010	S/N: 00040-R1	Due 4/20/2020		J.G.
105 Rec Lin Motor		S/N 00041	03/2010	S/N: 4886	Due 5/19/2020		J.G.
200 Reeling Line Cables			2009 03/2009	Apr. 2015	J.G.		
201 Batteries			01/2009	Mar. 2012	J.G.		
300 Coordinator/Roll Over Batteries			03/2001	June 2011	J.G.		
		</					

FILE NO.	ITEM AFFECTED	DATE & HRS AT COMP.	METHOD OF COMPLIANCE	TYPE OF A.D. 1 TIME/RECUR.	NEXT COMP. DATE/HRS./CYCLE	AUTHORIZED SIGNATURE CERTIFICATE NO.
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TRAIL NUMBER	ITEM AFFECTED	DATE & HRS AT COMP	METHOD OF COMPLIANCE	TYPE OF A.D. 1 TIME/RECUR.	NEXT COMP DATE/HRS./CYCLE	AUTHORIZED SIGNATURE CERTIFICATE NO.
AD-10		6/19/00 4.3	Searched AD's through bi-weekly issue <u>2000-10</u> . All AD's are in compliance at this time.			 6/6/00
			SB 20-55-03. Date <u>11/2/00</u> Hours <u>67.2</u> Horizontal stabilizer inspection complied with in accordance with SB 20-55-03. Inspection report appendix 2 on file with Manufacture 33SCF.			 NTP 30863609 IN — EN1 —
ES-05	CAP'S	4-2-02 1716.8	SPW S-B 20-55-02 AND A20-05-01	1 TIME	NA	CRS IERR 03/E
01-00	LEFT SWS	4-4-02 176.3	CR 44/W S.B.		NA	CRS IERR 03/E
02-03	ROCK WHEEL	4-4-02 176.3	CR 44/W S.B.		NA	CRS IERR 03/E
07-01	BRACKET	4-4-02 176.3	CR 44/W S.B.		NA	CRS IERR 03/E
01-01	FIRE	4-4-02 176.3	CR 44/W S.B.		NA	CRS IERR 03/E
02-01	CONV'L	4-4-02 176.3	CR 44/W S.B.		NA	CRS IERR 03/E
02-02	WING TORQUE	4-4-02 176.3	CR 44/W S.B.		NA	CRS IERR 03/E
All SB + AD's Complied with as of 5-2004						William K. Rogers IP17HVS555

F.A.R. 91.411

[illegible]

ALTIMETER & STATIC SYSTEM CHECKS

[illegible]

RADIO & ELECTRONIC CHECKS

TOTAL TIME	EQUIPMENT CHECKED	TYPE OF CHECK	ERROR OR RESULTS	NEXT CHECK DUE	CHECKED SIGNATURE
UPDATED BOTH GWS430 OPERATING SOFTWARE GPS=2.10 MAIN=2.22 OPS CHECKED GOOD Make <u>CIRRUS</u> Ser. No. <u>42</u> Model <u>SP20</u> Reg. Mark <u>N8114M</u> The aircraft / component identified above was repaired and inspected in accordance with current Regulations of the Federal Aviation Administration and found airworthy, and is approved for return to service for the work performed. Pertinent details of the repair are on file at the Agency. Work Order No. <u>8-2141</u> Date <u>5-29-01</u> Signed <u>Rick T. ...</u> Inspector for MUNCIE AVIATION CO CRS# AJVR139C MUNCIE, IN. 47308 765-289-7141					

MAC5201 NORTH WALNUT
MUNCIE, IN 47308**MAC**5201 NORTH WALNUT
MUNCIE, IN 47308**Muncie
Aviation
Company**

765-289-7141

CUSTOMER WM AIRCRAFT

P.O. NO. _____

W.O.# 85141 MODEL _____MFG. GAULIN SER.# 9

PART NO. _____

COMPONENT GPT CamREMARKS SW☐ BENCH TEST☐ FUNCTION TEST☐ OTHER _____

The Aircraft and/or component identified above was repaired and inspected in accordance with Federal Aviation Regulations and was found airworthy for return to service. Pertinent details of the repair are on file at this agency under above Work Order No.

DATE 5-29-91TECHNICIAN [Signature]INSPECTOR [Signature]

FAA CERTIFIED REPAIR STATION

A.J.V.R./35C

SERVICEABLECUSTOMER WM AIRCRAFT ATTACHMENTS

P.O. NO. _____

W.O.# 85141 MODEL GAULIN 430MFG. GAULIN SER.# 90309845

PART NO. _____

COMPONENT GPT CamREMARKS SW WPPC☐ BENCH TEST☐ FUNCTION TEST☐ OTHER SE 2.22 / 2.10☐ REPAIR☐ OVERHAUL

The Aircraft and/or component identified above was repaired and inspected in accordance with Federal Aviation Regulations and was found airworthy for return to service. Pertinent details of the repair are on file at this agency under above Work Order No.

DATE 5-29-91TECHNICIAN [Signature]INSPECTOR [Signature]

FAA CERTIFIED REPAIR STATION

A.J.V.R./35C

SERVICEABLETOTAL
TIME4.0
5.0
0.5Make _____
Model _____
The aircraft inspected _____
Federal Aviation Regulations is applicable _____
Pertinent Work _____
Signed _____
MUNCIE _____

RADIO & ELECTRONIC CHECKS

DATE	TOTAL TIME	EQUIPMENT CHECKED	TYPE OF CHECK	ERROR OR RESULTS	NEXT CHECK DUE	CHECKED BY SIGNATURE —
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CAPITAL AVIATION INST. & AVIONICS 10503 Observation Rd Manassas, VA 20110 OY1R391K
LOG ID# 194 09-May-2002 WO# 8027 REF# 8027 CA 11 HOBBS 185.1
NR11WM S/N 1042 CIRRUS SR 20

Pg 1/1

INSTALLED HEGGUT/S-TEC GPSS ARINC 429 SYSTEM. GPSS SYSTEM INSTALLED AS A MINOR ALTERATION ACCORDING TO FAA/DAS APPROVED S-TEC BULLETIN 90L. SYSTEM TESTED AND FOUND TO FUNCTION AS INTENDED. WEIGHT CHANGE NEGLIGIBLE.

THE AIRCRAFT, AIRFRAME, AIRCRAFT ENGINE, PROPELLER, OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION AGENCY AND IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS REPAIR STATION UNDER THE ABOVE WORK ORDER.

Wesley E. Yoder
OY1R391K WESLEY E. YODER

CAPITAL AVIATION INST. & AVIONICS 10503 Observation Rd Manassas, VA 20110 OY1R391K
LOG ID# K00 06-May-2002 WO# 8027 REF# 8027 CA 11 AC TT 185.1 HOBBS 185.1
NR11WM S/N 1042 CIRRUS SR 20

Pg 1/1

*** DESCRIPTION OF SERVICE WORK PERFORMED ***

THE ALTIMETER, TRANSPONDER, STATIC, AND ALTITUDE REPORTING SYSTEMS HAVE BEEN TESTED AS REQUIRED BY FAR'S 91.411 AND 91.413 AND MEET THE REQUIREMENTS OF FAR PART 43 APPENDIX E AND F.

ALTIMETER(S): TESTED TO 20,000 FT

ALTIMETER #1: P/N 59340-1

S/N 410929

TRANSPONDER #1: P/N GTX 320

S/N 83502046

DATA CORRESPONDENCE WAS TESTED TO 20,000 FT

THE AIRCRAFT, AIRFRAME, AIRCRAFT ENGINE, PROPELLER, OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION AGENCY AND IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS REPAIR STATION UNDER THE ABOVE WORK ORDER.

Wesley E. Yoder
CRS# OY1R391K

500	20	20	70	40% 30%
1000	20	20	70	AFTER EFFECT
1500	25	25	70	BARO. SCAL
2000	30	30	70	28.10
3000	30	30	70	28.50
4000	35	35	70	29.00
5000	40	40	70	29.50
6000	40	40	70	29.92
8000	60	60	70	30.50
10000	80	80	70	30.90
12000	90	90	70	30.99
14000	100	100	70	30.99
15000	110	110	70	30.99
16000	120	120	70	30.99
18000	130	130	70	30.99
20000	140	140	70	30.99
22000	155	155	70	30.99
25000	180	180	70	30.99
30000	205	205	70	30.99
35000	230	230	70	30.99
40000	255	255	70	30.99
45000	280	280	70	30.99
50000	250	250	70	30.99

MECHANIC

INSPECTOR

TEST IN COM WITH APPEN 43 FAA REGU A MERCURY

ALT S/N 410934

DATE 4/26/03

40% 30%





TEST IN COM
WITH APPEN
43 FAA REGU
CALIBRATED
A MERCURY

MECHANIC
INSPECTOR

DATE

ALT S/N

CAPITAL AVIATION INSTRUMENT CORP.

MANASSAS AIRPORT FAA REPAIR STATION #0

RADIO & ELECTRONIC CHECKS

DATE	TOTAL TIME	EQUIPMENT CHECKED	TYPE OF CHECK	ERROR OR RESULTS	NEXT CHECK DUE	CHECKED BY: SIGNATURE — CERT. NO.
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CAPITAL AVIATION INST. & AVIONICS 10503 Observation Rd Manassas, VA 20110 QY1R291K
 LOG ID# 804 13 May 2002 WOP#182 REF#182 CA 11 AC TT 185.1
 N011WNR SN 1042 CIRRUS SN 20

Pg 1/1

*** DESCRIPTION OF SERVICE WORK PERFORMED ***

CONFIRMED COMPLAINT, AP TURNS LEFT & WILL NOT TRACK IN HDG MODE. T/S TO INTERMITTENT HSI CONNECTOR #590. REASSEMBLED AC W CUSTOMERS REQUEST. CONTACTED CIRRUS TECH SUPPORT, ORDERED REPLACEMENT PART. 1/29/02 DISASSEMBLED AC TO GAIN ACCESS TO HSI HARNESS. REMOVED HARNESS, REPLACED CONNECTOR #590, AND REINSTALLED. RAMP TESTED OK.

THE AIRCRAFT, AIRFRAME, AIRCRAFT ENGINE, PROPELLER, OR APPLIANCE IDENTIFIED ABOVE HAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION AGENCY AND IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS REPAIR LOCATION UNDER THE ABOVE AIRCRAFT NUMBER.

QY1R291K

CAPITAL AVIATION INST. & AVIONICS 10503 Observation Rd Manassas, VA 20110 OY1R391K
LOG ID# 719 08-Apr-2002 WO# 8026 REFF 8026 CA 11 AC TT 1/6.3 HOBBS 176.3
N811WM SN 1042 CRRUG SR 20

Pg 111

**** DESCRIPTION OF SERVICE WORK PERFORMED ****

COULD NOT DUPLICATE GS FLAG INOP. BUT NOTED TO-FROM FLAG IN VOR MODE INOP. REMOVED HSI P/N 520139
S/N 795A & INSTALLED WARRANTY EXCHANGE UNIT P/N 520139 S/N 185A. RAMP TESTED OK. UPDATED GNS430 P/N
011-00280-00 S/N 96307097 TO MAIN SW VER 2.21. COMPLIED WITH DASHIN SR 0115. RAMP TESTED OK.

THE AIRCRAFT, AIRFRAME, AIRCRAFT ENGINE, PROPELLER, OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED AND
INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION AGENCY AND IS APPROVED FOR
RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS
REPAIR STATION UNDER THE ABOVE WORK ORDER.

0850 071231K

5-9-03 SR20 N811WM

Installed Com 2 antenna adapter to copilot Kxx
Panel. Upgraded software version (main) from 2.23 to
4.0 and GPS software from 2.10 to 3.0 in #1 GNS

430, SN 96307097 and #2

GNS 430, SN 96314014. All ops

CHKS OK. Change in weight & Balance
Negligable. Details on file.

W.O. Ref 8209

LANCASTER AVIONICS INC
LANCASTER AIRPORT
LITITZ, PA 17543

DATE 5-9-03

CERTIFICATE NO. LNT62818

SIGNED *[Signature]*

MAINTENANCE RECORD

F.A.R. 43.9

DATE OF COMPLETION	AIRCRAFT TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED OR APPROVED DATA USED	AGENCY & CERTIFICATE NO. WORK PERFORMED/RETURNED TO SERVICE
9-19-00	10005.6.3	REMOVED OLD MCU S/N 80209509 AND REPLACED WITH A NEW MCU S/N 80224109 CONDUCTED OPERATIONAL CHECK AND TROUBLESHOT THE MCU MCU SYSTEM TO DETERMINE THE CAUSE AND FOUND MCU WAS FAULTY. REMOVED OLD MCU S/N 80228129 AND REPLACED WITH NEW MCU S/N 80216804 IN ACCORDANCE WITH AIRBUS MAINTENANCE MANUAL CHAP 24-30 PG.1 VISUAL AND OPERATIONAL CHECK ARE GOOD.	

Robert J. [Signature] AEP 252703

12 SEPTEMBER 2000 HOBBS READS 56.1 AIRCRAFT TOTAL TIME EQUALS 56.1
 REMOVED AND REPLACED FLAP UP RELAY P643 AND FLAP DOWN RELAY P642
 WITH P/N 50288-001 RELAYS. OPERATIONAL CHECK OF FLAPS WAS SATISFACTORY

[Signature]

JAMES L. BOWERS
 AEP 308663609 1A

END

AGENCY & CERTIFICATION
WORK PERFORMED/RETURNING

4B20-55-C3 RZ

JAMES L BOWERS
A&P 308663609 LA

END

MAINTENANCE RECORD

~~03-20-04~~ 05-03 App. 2

INSPECTION REPORT FO

Complete form by illustrating the specific location and width of cut(s). Fax this form (completed) to C
Fax # 218 727-2148

no defect
noted

LH

TOP VIEW

no defect
noted

MAINTENANCE RECORD

F.A.R. 43.9

DATE OF COMPLETION	AIRCRAFT TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED OR APPROVED DATA USED	AGENCY & CERTIFICATE NO. WORK PERFORMED/RETURNED TO SERVICE
		11 JANUARY 2001 HOBBS READS 69 HOURS AIRCRAFT TOTAL TIME EQUALS 69 HOURS INSTALLED REIFF CORP HOTPADD MODEL #44 AND HOTBAND ENGINE HEATERS, FAA-PMA NO. PQ2585CE, IN ACCORDANCE WITH INSTALLATION INSTRUCTIONS. <i>James L. Bowers</i> JAMES L. BOWERS A&P 308663609 1A END	
		10 JAN 2001 HOBBS READS 75 AIRCRAFT TOTAL TIME EQUALS 75 REMOVED SHIPS BATTERY INSTALLED NEW GILL G-243 BATTERY S/N G01934439. <i>James L. Bowers</i> JAMES L. BOWERS A&P 308663609 1A END	

MAINTENANCE RECORD

F.A.R. 43.9

DATE OF COMPLETION	AIRCRAFT TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED OR APPROVED DATA USED	AGENCY & WORK PERFORMED
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25 JULY 2001 HOBBS READS 107 REMOVED VACUUM PUMP S/N 3AT1543 AND
INSTALLED NEW PUMP S/N 2AU932 REPLACED FILTERS AND CLEANED VACUUM
SYSTEM HOSES

James L. Bowers

JAMES L. BOWERS
A&P 308663609 1A

END

17 NOVEMBER 2001 HOBBS READS 133 REMOVED NSD 52D189 S/N 339A AND
INSTALLED NSD 52D189 S/N 295

James L. Bowers

JAMES L. BOWERS
A&P 308663609 1A

END

MAINTENANCE RECORD

F.A.R. 43.9

DATE OF COMPLETION	AIRCRAFT TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED OR APPROVED DATA USED	AGENCY & CERTIFICATE NO. WORK PERFORMED/RETURNED TO SERVICE
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DOMINION AVIATION SERVICES, INC.

Registration 811WM
S/N 1042
Hour Meter 152.9
TTAF 152.9
TTENG
Airframe X Engine:

Date 12/27/01
Model # Cirrus SR20
Tach N/A
TSMOH
TTPROP
Propeller WO# 11252

Dominion Aviation Services Inc. 7511 Airfield Dr. Richmond VA. 23237
Phone 804 271-7793 Fax 804 275-8238

1. Complied with SB 20-33-01 install landing light vibration mount.
2. Replaced landing light.
3. Lubricated throttle quadrant detent

The maintenance described above was performed and inspected in accordance with current FAA regulations and is approved for return to service. Details on file at this facility.

Signature *J. Jones*

CRSODARO18H

Date Dec 27, 2001

MAINTENANCE RECORD

F.A.R. 43.9

DATE OF COMPLETION	AIRCRAFT TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED OR APPROVED DATA USED	AGENCY & CERTIFICATE NO. WORK PERFORMED/RETURNED TO SERVICE
		Registration 811WM S/N 1042 Hour Meter 157.2 TTAF 157.2 TTENG 157.2 Airframe X Engine:	Date 2-7-02 Model # SR20 Tach TSMOH TTPROP 157.2 Propeller WO#11374

Dominion Aviation Services Inc. 7511 Airfield Dr. Richmond VA 23237
 Phone 804 271-7793 Fax 804 275-8238

1. Customer reports Throttle linkage jammed. Lubricated prop governor cable. Disassembled control quadrant and inspected bearing. No defects noted. Reinstalled and lubricated. Throttle op checks satisfactory. Reference Cirrus Maintenance Manual, 76-10.

The maintenance described performed above was inspected in accordance with current FAA regulations and the aircraft component is approved for return to service, with respect to the work performed. Details on file at this facility.

Signature *Steve S. Cole*

CRSODAR018H

Date 2-7-02

F.A.R. 43.11-91.409

DATE _____

AIRCRAFT TIME IN SERVICE	
1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	16
17	18
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21	22
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77	78
79	80
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83	84
85	86
87	88
89	90
91	92
93	94
95	96
97	98
99	100

KIND OF INSPECTION STATUS & DISCREPANCY LIST
SIGNATURE — CERT. NO. OF PERSON APPROVING OR DISAPPROVING AIRCRAFT FOR SERVICE

Secured right MLG brake line support to strut.

I certify that this AIRCRAFT has been inspected in accordance with an ANNUAL inspection and was determined to be in an airworthy condition. Date 5-10-02 ,w.c.# 02-0116

Recorded time 185.1 Total Time 185.1

J. Anne K Rogers

Authorized signature _____

Dulles Aviation Inc. CRS 181931E
Manassas, Va 20110

MAINTENANCE RECORD F.A.R. 43.9

DATE OF COMPLETION	AIRCRAFT TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED OR APPROVED DATA USED	AGENCY & CERTIFICATE NO. WORK PERFORMED/RETURNED TO
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Date: 4/8/2002, Aircraft: N811WD, Type: SR20, S/N: 1042, Hobbs: 176.8, Total Time: 176.8, Engine - Ty
S/N: , Time: 176.8, Prop Type: , S/N: , Time: 176.8
CW Cirrus SB 20-01-00 Gross weight increase IAW para 1. (1) thru (6); 2. (1) thru (23); and 3. (1) thru (9)
POH placed with log books.
CW Cirrus SB 20-32-03 IAW para 1. (a) thru (k); and 2. (a) thru (p).
CW Cirrus SB 20-78-01 IAW para 1 thru 16.
CW AD 2002-05-05 Modification of CAPS system (Group 2) IAW Cirrus SB's A20-95-01 and 20-95-02.
Installed vented cowling closeout panel IAW Cirrus SB 20-71-01.
Replaced flap actuator PN 11629-003. Removed SN 0009 and installed SN 0316. Rigged IAW Cirrus serv
manual and ground functional test OK.
Replaced prop control cable and prop lever bearing. Lubricated power control lever and rod ends.
Reinstalled inner door handle roll pins both left and right, lubed left and right door latch pins.

Repaired/Inspected and approved for return to service w.o. 02-076-0

Date 4-8-02

John K. Rogers
Authorized signature

Dulles Aviation Inc. CRS IBIR931E
Manassas, Va. 20110

4-8-02

COMPLY WITH FLIGHT CHECK OF
FLAP OPERATION.

4-10-02 181.1

Flight check of flaps - normal function noted

John Jones 342 4606

MAINTENANCE RECORD
F.A.R. 43.9

DATE OF COMPLETION	AIRCRAFT IN SERVICE	AGENCY & CERTIFICATE NO. PERFORMED/RETURNED TO SERVICE
6/28/02	261.0	11-30-02 261.0 Slight check after above service - normal function except Airdyne mgs 12-7-02 264.1 hrs Replaced Landing Light with Cirrus P/N 50238-001 in accordance with Maintenance Manual - Cirrus Tests Good

MAINTENANCE RECORD

F.A.R. 43.9

DATE OF COMPLETION	AIRCRAFT TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED OR APPROVED DATA USED	AGENCY & CERTIFICATE NO. WORK PERFORMED/RETURNED TO SERVICE
 DOMINION AVIATION SERVICES, INC.		Registration 811WM S/N 1042 Hour Meter 154.7 TTAF 154.7 TTENG Airframe X Engine:	Date 1-7-02 Model # SR20 Tach TSMOH TTPROP 154.7 Propeller WO# 11278

Dominion Aviation Services Inc. 7511 Airfield Dr. Richmond VA. 23237
 Phone 804 271-7793 Fax 804 275-8238

1. Inspected right brake system. Found brake line at flex hose fitting leaking. Tightened cleaned area. Serviced brake fluid reservoir and leak checked. Op checked and leak checked good.

The maintenance described performed above was inspected in accordance with current FAA regulations and the aircraft/component is approved for return to service, with respect to the work performed. Details on file at this facility.

Signature T. Jones

CRSODAR018H

Date Jan 29, 2002

3-29-02 **172-6** **Am - Safe Seal Belt**
SB 504907-25-01

John Jones

MAINTENANCE RECORD

DOMINION AVIATION

FAA CERTIFIED REPAIR STATION #0048018H
7311 AIRFIELD DRIVE
RICHMOND, VA
(804) 271-7793

CERTIFICATE NO.
3/RE TURNED TO SER.

REGISTRATION	811WM	MODEL NUMBER	SR20
TOTAL TIME AIRFRAME	0265.3	SERIAL NUMBER	1042
TOTAL TIME ENGINE	0265.3	TSMOH	
TOTAL TIME PROPELLER		TACH	
AIRFRAME	X	HOBBS	265.3
ENGINE		DATE	12/10/2002
PROPELLER		WORK ORDER NUMBER	12352

1. Replaced Vacuum Pump, P/N 215CC, S/N 6199(cc). Replaced all filters and cleaned out all lines. Replaced two fittings for Vacuum Pump.
2. Performed ground run, no leaks/defects noted.

The maintenance described above was performed and inspected in accordance with current FAA regulations and is approved for return to service. Details on file at this facility.

Signature John Jones

Date Dec 10, 2002

12-15-02 265.3

check flight after new vacuum pump as above.
Normal function of vacuum system noted.
John R. Jones Jr. 342-46-0168



DOMINION AVIATION

FAA CERTIFIED REPAIR STATION #00AR016H
7511 AIRFIELD DRIVE
RICHMOND, VA
(804) 271-7793

CERTIFICATE NO.
E.D./RETURNED TO SERVICE

REGISTRATION	811WM	MODEL NUMBER	9/27/2002
TOTAL TIME AIRFRAME	249.8	SERIAL NUMBER	1042
TOTAL TIME ENGINE			
TOTAL TIME PROPELLER		TACH	
AIRFRAME	X	HOBBS	249.8
ENGINE		DATE	9/27/2002
PROPELLER		WORK ORDER NUMBER	12090

1. Customer request to inspect Rudder/Aileron rigging due to Yoke falling hard to right side. Removed left aileron, inspection plate, and inspection cover under wing. Inspected rigging of rudder pedals and ailerons, no defects noted. Inspected pull trim cartridge assembly, no defects noted. Inspected Shock Cord under floorboard, no defects noted. Checked Aileron throws, within limits of 12.5 degrees up and down, +/- 1 degree.
2. Replaced inboard and outboard bearings on left aileron and attach bracket, outboard.

The maintenance described above was performed and inspected in accordance with current FAA regulations and is approved for return to service. Details on file at this facility.

Signature: Chris S. Cole

Date: 9-27-02

MAINTENANCE RECORD

F.A.R. 43.9

DATE OF
COMPLETION

AIRCRAFT TIME
IN SERVICE

DESCRIPTION OF WORK PERFORMED
OR APPROVED DATA USED

AGENCY & CERTIFICATE NO.
WORK PERFORMED/RETURNED TO SERVICE

Airways, Inc. 520 Airport Rd. Lititz, Pennsylvania 17543
LOG ID# 290 31-January-2003 WO# 3536 REF# 3536 HOBB5 285.0
N811WM S/N 1042 CIRRUS SR20

Pg 1 / 1

-AIRFRAME LOG-

COMPLIED WITH SB 20-52-02 INSTALLATION OF DRAIN HOLES IN CABIN DOORS AND LUGGAGE DOOR, C/W SB
20-14-05-ENLARGEMENT OF DRAIN HOLES IN RUDDER BOTTOM AND ELEVATOR TIPS. CONFIGURED AVIATION PED FOR
RS420 CONNECTION AND CONFIGURED AT GARDIN. OPS CHECKED (SEE -END-

Signed ACP 204567354 Daniel R. Rhy

Test Flight 2-5-03 Airframe works,
great.
John R. Rhy 342460168

MAINTENANCE RECORD DOMINION AVIATION

FAA CERTIFIED REPAIR STATION #00AR018H
7511 AIRFIELD DRIVE
RICHMOND, VA
(804) 271-7793

CERTIFICATE NO.
3/RETURNED TO SERVICE

REGISTRATION 811WM
TOTAL TIME AIRFRAME
TOTAL TIME ENGINE
TOTAL TIME PROPELLER
AIRFRAME X
ENGINE
PROPELLER

MODEL NUMBER 5R26
SERIAL NUMBER 1042
TSMOH
TACH
HOBBS 0300.1
DATE 4-23-03
WORK ORDER NUMBER 12698

1. Installed new Battery, P/N G215, S/N G02074976.

The maintenance described above was performed and inspected in accordance with current FAA regulations and is approved for return to service. Details on file at this facility.

Signature Blm S. Galt

Date 4-23-03

INSPECTION RECORD

F.A.R. 43.11-91.409

DATE	AIRCRAFT TIME IN SERVICE	KIND OF INSPECTION - STATUS & DISCREPANCY LIST SIGNATURE - CERT. NO. OF PERSON APPROVING OR DISAPPROVING AIRCRAFT FOR SERVICE
6/5/00	4.3	Production Flight Test accomplished in accordance with Cirrus Procedure # 90500 Name: <u>Garv Black</u> Date: <u>6/5/00</u> Signature: <u>[Signature]</u> Title: <u>Director of Flight Operations</u>
6/6/00	4.3	I FIND THAT THIS AIRCRAFT MEETS THE REQUIREMENTS FOR THE CERTIFICATION REQUESTED AND HAVE ISSUED A STANDARD AIRWORTHINESS CERTIFICATE DATED <u>6/6/00</u> THE NEXT ANNUAL INSPECTION IS DUE <u>6/01</u> <u>[Signature]</u> LARRY G. NELSON DARF501269CE

INSPECTION RECORD
F.A.R. 43.11-91.409

DATE

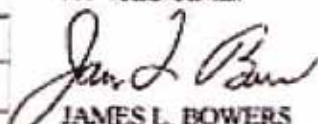
AIRCRAFT TIME

KIND OF INSPECTION - STATUS & DISCREPANCY LIST

03 JULY 2001 HOBBS READS 96 HOURS AIRCRAFT TOTAL TIME EQUALS 96 HOURS, ANNUAL INSPECTION COMPLETED THIS DATE INCLUDED BUT NOT LIMITED TO THE FOLLOWING ITEMS:

1. OPENED INSPECTION PANELS AND REMOVED COWLINGS
2. INSPECTED AIRCRAFT IN ACCORDANCE WITH CIRRUS SR-20 MAINTENANCE MANUAL REVISED 4 NOV 2000 CHAPTER 5-00 INSPECTION REPORT
3. LUBRICATED AIRCRAFT PER CIRRUS RECOMMENDATIONS
4. REPLACED RIGHT MLG P/N 11724-001 PER M/M CHAPTER 32-10.
5. REPLACED ONE NLG PUCK P/N 11879-006
6. REPLACED ALL FOUR BRAKE LININGS P/N 50918-001 (CLEVELAND 66-141)
7. C/W SB 20-32-01 BY INSTALLATION OF KIT P/N 70009-002 C/W SB 20-78-01 BY ADJUSTMENT OF EXHAUST BALL JOINT FLANGES C/W SB 20-55-04 BY INSTALLATION OF AN3-5A BOLT IN UPPER RUDDER HINGE C/W OSA SA 01-07 BY INSTALLATION OF NAS1351-3H13P SCREWS IN AILERON ACTUATION PULLEYS.
8. CHECKED AD'S THRU 2001-12 NO AD'S APPLY TO THIS AIRCRAFT AT THIS TIME.
9. INSPECTED ELT IN ACCORDANCE WITH FAR 91.207(d) AND FOUND OPERATION TO BE SATISFACTORY BATTERY REPLACEMENT DUE JAN/2004.

I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION AT THIS TIME.


JAMES L. BOWERS
A&P 308663609 IA

END

INSPECTION RECORD

F.A.R. 43.11-91.409

DATE	AIRCRAFT TIME IN SERVICE	KIND OF INSPECTION - STATUS & DISCREPANCY LIST SIGNATURE - CERT. NO. OF PERSON APPROVING OR DISAPPROVING AIRCRAFT FOR SERVICE
Date: 5/10/2002	Aircraft: N811WD, Type: SR20, S/N: 1042, Hobbs: 185.1, Total Time: 185.1, Engine - Type: 03004056B, S/N: 357185, Time: 185.1, Prop Type: PHC-J3YF-1MF, S/N: JC27A, Time: 185.1	
CW annual inspection IAW Cirrus inspection instructions, lubed aircraft IAW maintenance instructions	All A/C's have been CW through 2002-08.	
CW CLT inspection IAW FAR 91.207 (d), functional test OK. Battery due 01-2004.		
Removed right flap assembly, repaired LE puncture by flush patch, primed and painted, reinstalled flap assembly.		
Straightened left MLG strut fairing attach brackets, reinstalled strut fairings. Replaced right MLG fairing attach brackets, installed new wheel fairing and reinstalled strut fairing.		
Replaced right and left door seals to remove excessive gap at seal joint.		
Replaced rear seat right side cup holder.		
Installed new center console cover restraint.		
Replaced air induction filter.		
Replaced left fuel quantity sender unit PN 12638-001 #177088. Leak and functional test OK.		
Replaced right fuel quantity sender unit. Leak and functional test OK.		
Replaced damaged wellnuts on right MLG upper fairing.		
Replaced left MLG tire. Inspected wheel assy., inspected and repacked wheel bearings, inspected brakes.		
Reinstalled and safetied.		
CW Cirrus SB 20-32-01 nose landing gear mounting bolt torque.		
Replaced turn and bank indicator batteries.		
Replaced vacuum regulator filter.		
Removed glareshield assy., replaced D0-18-1 instrument air filter, replaced filter retaining screw with rethreaded AN3-43 bolt, reinstalled glareshield assy.		
Replaced OAT/Clock battery.		
		CONTINUED NEXT PAGE

DOMINION AVIATION

FAA CERTIFIED REPAIR STATION #ODAR018H
7511 AIRFIELD DRIVE
RICHMOND, VA
(804) 271-7793

REGISTRATION 811WM
TOTAL TIME AIRFRAME
TOTAL TIME ENGINE
TOTAL TIME PROPELLER
AIRFRAME X
ENGINE
PROPELLER

MODEL NUMBER SR20
SERIAL NUMBER 1042
TSMOH
TACH
HOBBS 0300.1
DATE 4/22/2003
WORK ORDER NUMBER 12694

1. Replaced Rudder Assembly with factory new, P/N 10756-103, S/N 2141, in accordance with Cirrus Maintenance Manual.
2. Checked Battery for proper charge as per customer request. Serviced Battery with distilled water. Placed battery on charged and reinstalled. All cells show weak with Hydrometer.

The maintenance described above was performed and inspected in accordance with current FAA regulations and is approved for return to service. Details on file at this facility.

Signature

Blair S. Lee

Date

4-22-03

4-30-03 301-1 Slight test rudder → tests OK no problems noted
342460168 *John*

MAINTENANCE RECORD

F.A.R. 43.9

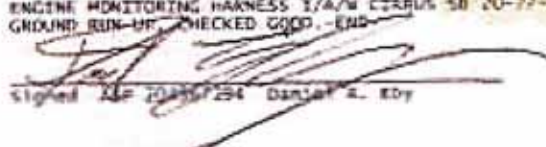
DATE OF COMPLETION	AIRCRAFT TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED OR APPROVED DATA USED	AGENCY & CERTIFICATE NO. WORK PERFORMED/DE TURNED TO/GRN
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Airways, Inc. 520 Airport Rd Lititz, Pennsylvania 17543
LOG ID# 221 27-November-2002 WO# 3302 REF# 3302 HOBBS 260.0
N811WM S/N 1042 CIRRUS SR20

Pg 1 / 1

-AIRFRAME-

C/W SB 20-95-05 CAPS ACTIVATION CABLE REPLACEMENT, C/W SB 20-27-03 IMPROVED RUDDER PEDAL TORQUE TUBE BRACKETS, C/W SB 20-32-04R1 SPINDLE CUP INSPECTION, C/W SB 20-29-05 FLAP/COMM EMI SUPPRESSION, C/W SB 20-20-01-01 TRIM CARTRIDGE SELF LOCKING NUT REPLACEMENT I/A/W CIRRUS SB 20-27-06, C/W SB 20-27-04 INSTALLATION OF AILERON TRIM TAB, REMOVED THE ARNAV ICDS AND INSTALLED THE AVIDYNE MFD I/A/W THE AVIDYNE INSTALLATION INSTRUCTIONS, INSTALLED THE SENSOR INTERFACE UNIT S/N 147 REV E, AND ENGINE MONITORING HARNESS I/A/W CIRRUS SB 20-22-01, REPAIRED THE TAIL CONE AS NECESSARY. PERFORMED A GROUND RUN-UP, CHECKED GOOD. -END-

Signed  Daniel A. Eby

INSPECTION RECORD

F.A.R. 43.11-91.409

DATE

AIRCRAFT TIME
IN SERVICEKIND OF INSPECTION - STATUS & DISCREPANCY LIST
SIGNATURE - CERT. NO. OF PERSON APPROVING OR DISSAPPROVING AIRCRAFT FOR SERVICE

Airways, Inc. 520 Airport Rd Lititz, Pennsylvania 17543
 LOG ID# 432 13-June-2003 WO# 3679 REF# 3679 HOBBS 304.8
 N811WM S/N 1042 CIRRUS SR20

Pg 1 / 1

-AIRFRAME LOG-

COMPLETED AN ANNUAL INSPECTION I/A/W THE CIRRUS M/M CHECK SHEETS. INSTALLED ENGINE 10360ES6R HAVING ENGINE S/N 357375 ON THIS AIRFRAME. C/W SB 20-32-06 INSTALLATION OF THE NLG COUNTERSUNK WASHERS, C/W SB 2X-57-04 OBD AILERON HINGE INSPECTION, C/W SB 20-76-02 POWER LEVER BEARING REPLACEMENT, REPLACED THE INDUCTION AIR FILTER, REPLACED THE GARTER FILTER, REPLACED THE CENTRAL VAC FILTER, REPLACED THE BACKUP TURN CO-ORDINATOR BATTERIES, REPLACED THE RT WING NAV LIGHT, INSTALLED NEW STANDOFF ON THE R/H MLG, REMOVED AND INSTALLED REPAIRED GOVERNOR (SEE YELLOW TAG), ~~REPLACED~~ ~~REPAIRING LINE CUTTERS I/A/W CIRRUS & BRS INSTALLATION INSTRUCTIONS (DUE REPLACEMENT AT 06/09)~~, SERVICED THE TIRES, SERVICED THE HYDRAULIC RESERVOIR, SERVICED THE BATTERY, LUBED ALL AIRFRAME CONTROLS, C/W FAR 91.2047(d) ELT CHECK, CHECKED GOOD (BATTERY DUE 01/04). ALL AD'S CHECKED THRU 03-10.-END-

I CERTIFY THAT THIS AIRFRAME HAS BEEN INSPECTED I/A/W AN ANNUAL INSPECTION AND WAS FOUND TO BE IN AIRWORTHY CONDITION.

Lawrence P. Marks
 Signed A&P 19740391A Lawrence P. Marks

62303 307.6

*Flight test after annual inspection.
 Airframe checks out fine. CHT are somewhat
 higher with new engine*

John R. Jones Jr 342460/68

INSPECTION RECORD

F.A.R. 43.11-91.409

DATE AIRCRAFT TIME
SERVICE

SIGNATURE KIND OF INSPECTION, STATUS & DISC'D
CERT. NO. OF PERSON APPROVING OR

MAINTENANCE RELEASE

Part No. D216760 Description WOODWARD GOVERNOR Serial No. 12306376

was ☒ REPAIRED (describe) Bench checked, adjusted Rpm's, and tested for proper operation

☐ OVERHAULED per the following documents (include revision levels):

Manuals

Service Bulletin

Service Letters

Service Instructions

Service Advisories

**THIS IS NOT AN OVERHAUL
AND CANNOT BE CONSIDERED AS SUCH**

The following Airworthiness Directives have been complied with:

A.D.

Method of

Occurs at

Date of Hours

Airways

Time Since New: Brought forward Time Since Overhaul/Major: Brought forward

The item(s) identified above were repaired or overhauled (as indicated) and inspected in accordance with current FAA regulations and are approved for return to service. Pertinent details of this repair or overhaul are on file at this repair station under work order # L11486

Date May 14, 2003

Signed

Wallace B. Wells

For Repair Station #QV9R194N

SENENICH PROPELLER SERVICE, INC.

519 East Airport Road, Lititz, PA 17543

FORM 004

623

AD NOTES COMPLIANCE RECORD

AD#	Applicable S.B. # & Subject	Date & Hours @ Comp.	Method of Compliance	One Time	Recurring	Next Comp. @ Hrs/Date	Authorized Signature & Number
77-12-06 R2	Prop blade		S/S BY 2002-09-08		X		L P MARKS IA1974039
80-06-05	Stick magnetos	N/A	N/A BY MAG S/N	X			L P MARKS IA1974039
81-13-10 R1	Engine oil pump drive shaft	N/A	N/A BY ENGINE MODEL	X			L P MARKS IA1974039
81-16-03	Brackett air filters	N/A	N/A BY EQUIP INSTALLED	X			L P MARKS IA1974039
81-16-05	Stick magnetos	N/A	N/A BY MAG S/N	X			L P MARKS IA1974039
81-25-01	Woodward governor flyweights	N/A	N/A BY MODEL	X			L P MARKS IA1974039
87-17-06	AM Safe restraint system	N/A	N/A BY EQUIP INSTALLED	X			L P MARKS IA1974039
88-03-06	Oil filter	N/A	N/A BY EQUIP INSTALLED	X			L P MARKS IA1974039
89-22-05	Propeller hub failure		S/S BY 93-10-14		X		L P MARKS IA1974039
91-19-03	Champion oil filter	N/A	N/A BY DATE CODE	X			L P MARKS IA1974039
92-04-09	Rocker shaft	N/A	N/A BY ENGINE MODEL	X			L P MARKS IA1974039
93-05-06	ACS ignition switches				X	2000-00	L P MARKS IA1974039
93-10-02	Cylinder valve retainer	N/A	N/A BY ENGINE S/N	X			L P MARKS IA1974039
93-16-14	Prop hub cracks		S/S BY 94-17-13		X		L P MARKS IA1974039
94-17-13	Prop hub failure	N/A	N/A BY HUB S/N		X		L P MARKS IA1974039
95-03-02	Brackett air filter gasket		S/S BY 96-09-06		X		L P MARKS IA1974039
96-09-06	Brackett air filter gasket	N/A	N/A BY EQUIP INSTALLED		X		L P MARKS IA1974039
97-26-17	CORRECTION - Crankshaft fatigue cracks	N/A	N/A BY ENG MFG DATE		X		L P MARKS IA1974039
PL2000-08-5 1	Crankshaft connecting rod journal fracture		S/S BY 2000-23-21		X		L P MARKS IA1974039
PL2000-11-5 1	Possible engine failure		S/S BY 2002-13-04		X		L P MARKS IA1974039
2000-23-21	Fracture of the crankshaft connecting rod journal	N/A	N/A BY CRANKSHAFT S/N		X		L P MARKS IA1974039
2001-07-03	CORRECTION - Prevent propeller failure of the propellers	N/A	N/A BY HUB S/N		X		L P MARKS IA1974039
2001-26-03	Detect and replace understrength rivets in the	N/A	N/A BY ASN		X		L P MARKS IA1974039
2002-05-05	Limit the chance of failure of the CAPS activation system		S/S BY 2002-24-08		X		L P MARKS IA1974039
2002-09-08	Prevent failure of the propeller blade from fatigue cracks	N/A	N/A BY HUB S/N		X		L P MARKS IA1974039
2002-13-04	CORRECTION - Prevent engine failure and loss of control of the	N/A	N/A BY MAG S/N		X		L P MARKS IA1974039
2002-21-02	Prevent loss of the self-locking retaining nut on the roll and yaw	12/27/02 200.0	IAW AD AND CIRRUS SB A20-27-06		X		L P MARKS IA1974039
2002-24-08	Prevent failure of the CAPS activation system in an	12/27/02 260.0	IAW AD AND CIRRUS SB A20-95-05		X		L P MARKS IA1974039
2002-26-03	Detect and correct incorrect installation of the air filter	N/A	N/A BY EQUIP INSTALLED		X		L P MARKS IA1974039

INCIDENT RECORD



DOMINION AVIATION

FAA CERTIFIED REPAIR STATION (B0240010)
7511 AIRFIELD DRIVE
RICHMOND, VA
(804) 273-7793

OFFICE

DA

REGISTRATION	811WM	MODEL NUMBER	5820
TOTAL TIME AIRFRAME	295.3	SERIAL NUMBER	1042
TOTAL TIME ENGINE		TSMOH	
TOTAL TIME PROPELLER		TACH	
AIRFRAME	X	HOBBS	295.3
ENGINE		DATE	2/24/03
PROPELLER		WORK ORDER NUMBER	12540

1. Removed and replaced right Main Tire with new, P/N 201-249-090. Cleaned and lubed wheel bearings. Reference Cessna Maintenance Manual, Chapter 12-10, figure 12-001, Chapter 32-41 and Chapter 07.

The maintenance described above was performed and inspected in accordance with current FAA regulations and is approved for return to service. Details on file at this facility.

Signature

Robert Kennedy

Date

2/24/03

1/69

INSPECTION RECORD



DOMINION AVIATION

FAA CERTIFIED REPAIR STATION #0DAK018H
7511 AIRFIELD DRIVE
RICHMOND, VA
(804) 271-7793

SERVICE

REGISTRATION	411WM	MODEL NUMBER	SR20
TOTAL TIME AIRFRAME	295.9	SERIAL NUMBER	1042
TOTAL TIME ENGINE		TSMOH	
TOTAL TIME PROPELLER		TACH	
AIRFRAME	X	HOBBS	295.9
ENGINE		DATE	2/25/03
PROPELLER		WORK ORDER NUMBER	12543

1. Removed and replaced left Main Tire with new, P/N 201-249-090. Cleaned and lubed wheel bearings. Reference Cirrus Maintenance Manual, Chapter 12-10, figure 12-001, Chapter 32-41 and Chapter 07.

The maintenance described above was performed and inspected in accordance with current FAA regulations and is approved for return to service. Details on file at this facility.

Signature

[Handwritten Signature]

Date

2/25/03

INSPECTION RECORD
F.A.R. 43.11-91.409

F.A.R. 43.11-91.409

DATE	AIRCRAFT TIME IN SERVICE	KIND OF INSPECTION - STATUS & DISCREPANCY LIST SIGNATURE - CERT. NO. OF PERSON APPROVING OR DISAPPROVING AIRCRAFT FOR SERVICE
1-7-03	348.1	Removed and Replaced nose gear fairing brackets (old one was loose) parts # 11799-003 per Maint. Manual 32-20 Touched up paint on nose fairing and nose strut. John J. Jr 342-46-0168

INSPECTION RECORD



DOMINION AVIATION

FAA CERTIFIED REPAIR STATION #00401811
7511 AIRFIELD DRIVE
RICHMOND, VA
(804) 271-7793

SERVICE

REGISTRATION 811WM
TOTAL TIME AIRFRAME
TOTAL TIME ENGINE
TOTAL TIME PROPELLER
AIRFRAME X
ENGINE
PROPELLER

MODEL NUMBER 5820
SERIAL NUMBER 1042
TSMOH
TACH
HOURS 0069.7
DATE 11/18/2003
WORK ORDER NUMBER 13411

1. Complied with Cessna Service Bulletin 24-34-05 by installing Kit 70258-001 in accordance with Service Bulletin Instructions.

The maintenance described above was performed and inspected in accordance with current FAA regulations and is approved for return to service, with respect to the work performed. Details on file this facility.

Signature

[Handwritten Signature]

11-22-03 37hrs Test Flight after SB 24-34-05
transponder works fine
242 460168

[Handwritten Signature]

INSPECTION RECORD

F.A.R. 43.11-91.409

DATE	AIRCRAFT TIME IN SERVICE	KIND OF INSPECTION - STATUS & DISCREPANCY LIST SIGNATURE - CERT. NO. OF PERSON APPROVING OR DISSAPPROVING AIRCRAFT FOR SERVICE
12-12-03	377.9	Removed old sun visors and installed Rosen Sun Visors serial # NSA 1203053 per STC SA 01285SE. John R. Jones Jr. 342460168
12-13-03	374.9	Test flight with Rosen Sunvisors: No problems. John R. Jones Jr. 342460168 John R. Jones Jr.
1-1-04	391.2	Performed Amsafe SB 504907-25-02 Rev A 8-5-03 with part # 504907-405. Insert 4 rubber plugs per each restraint system x 4 seats. Tested all buckles - OK. John R. Jones Jr. 342460168
2-16-04	402.8	Test flight after Garmin GTX 330 Mode S transponder installation. All functions worked OK. See attached FAA Form 337 Dated 2-18-2004. John R. Jones Jr. 342460168

INSPECTION RECORD

F.A.R. 43.11-91.409

AIRCRAFT TIME IN SERVICE	KIND OF INSPECTION - STATUS & DISCREPANCY LIST SIGNATURE - CERT. NO. OF PERSON APPROVING OR DISAPPROVING AIRCRAFT FOR SERVICE
402.8	Removed and replaced left and right brake pads with RA 66-166 Rayco pads & rivets i.e. w/ Cirrus Maint. Manual 32.42 Rotors brake lines inspected no problems found No leaks noted. good pedal pressure each brake
402.8	Removed cleaned gapped and retuned all spark plugs upper & lower each cylinder All plugs inspected OK All plugs replaced back in accordance with Cirrus M. Manual 74-26
402.8	Removed inspected cleaned and replaced all fuel injector nozzles. All inspected OK Leak test using boost pump - No leaks noted
	342460168 John R. Jones Jr

INSPECTION RECORD

F.A.R. 43.11-91.409

DATE

AIRCRAFT TIME
IN SERVICE

SIGNATURE - CERT. NO. OF PERSON APPROVING OR DISAPPROVING AIRCRAFT FOR SERVICE



db/a MILLION AIR - RICHMOND

MANUFACTURER Cirrus

Model: SR20

Date 12/30/2005

S/N: 1042

W.O.: AV051208

Reg #: N811WM

ACTT: 583.6

Landings:

AIRFRAME LOGBOOK INSERT

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

Gained access to SIU. Removed cannon plugs and checked for bad pins - none noted. Resecured plugs into original position. Check SIU's dip switch settings - All correct per serial number. Removed defective SIU and replaced with serviceable rebuilt SIU. Functional check sensor interface unit to MFD. Interface unit operational check good at this time. P/N offon A0800. S/N off 147. S/N on 004. MFD P/N 700-00004-002 S/N 1413.

Removed right hand rear seat. Removed serviceable relay for use on another aircraft. Replaced with a new relay P/N 0-332-209-204. OP's check good. Reinstalled rear seat. All work done UAW Cirrus SR20 MM.

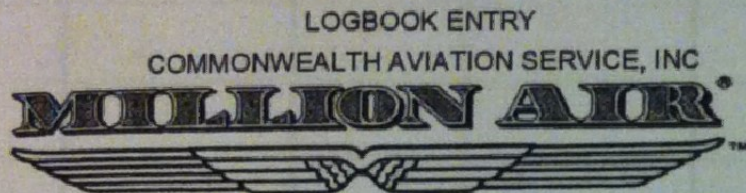
Installed Service Bulletin 601-00004-030, Title EX5000 Software Upgrade. New software P/N 630-00180-100 Rev.00. Software version # 6.0.0 Build 6. The MFD tested UAW SB601-00004-030.

Signed:

Print:

[Signature] AP226587565JA
John T. Gmiller
for
COMMONWEALTH AVIATION SERVICE, INC.

[illegible]



d/b/a MILLION AIR - RICHMOND

MANUFACTURER Cirrus

Model:	SR20	Date	3/22/2005
S/N:	1042	W.O.:	M050325
Reg #:	N811WM	ACTT:	513.3
		Landings:	

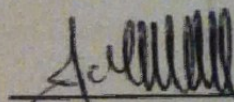
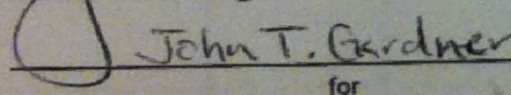
AIRFRAME LOGBOOK INSERT

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

Complied with SB 2X-25-07 R2, Cabin Dual Inertia Reel Seat Belt Installation, I/A/W accomplishment instructions. P/N's off 504907-409-8013 S/N's 0070 and 0120. P/N's on 4104-1-011-8013 S/N's 27JAN05-225 and 27JAN05-348.

Signed:

Print:

 AP226987565JA
 John T. Gardner
for

COMMONWEALTH AVIATION SERVICE, INC.



d/b/a MILLION AIR - RICHMOND

CRS VXWR051W

MANUFACTURER Cirrus

Model:	SR20	Date	5/25/2005
S/N:	1042	W.O.:	M050434
Reg #:	N811WM	ACTT:	526.6
		Landings:	

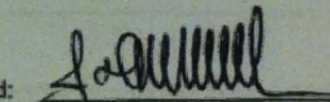
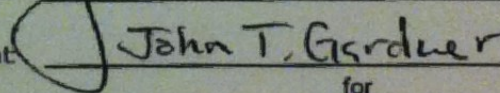
AIRFRAME LOGBOOK INSERT

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

Removed Garmin transponder and shipped to Garmin for compliance with AD 2005-01-019. Reinstalled original transponder after compliance with AD. The ATC Transponder System was tested and found to meet the requirements of FAR Part 43 Appendix F. P/N off/on 011-00455-00 S/N 84109252.

Signed:

Print:


 John T. Gardner
for

COMMONWEALTH AVIATION SERVICE, INC.
F.A.A. Approved Repair Station No. VXWR051W

User/Installer Responsibilities

It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the Airworthiness Authority of the country specified in block 1.

Statements in block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

!

LOGBOOK ENTRY
COMMONWEALTH AVIATION SERVICE, INC.
MILLION AIR
d/b/a MILLION AIR - RICHMOND

MANUFACTURER Cirrus
Model SR20 Date 5/25/2005
S/N 1042 W.O.: M050434
Reg #: N811WM ACTT: 528.6
Landings:

AIRFRAME LOGBOOK INSERT

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

The Cirrus Design SR20 S/N 1042 aircraft was inspected IAW current maintenance rules of the Federal Aviation Regulations for an Annual inspection using the manufacturer's inspection guide and is approved for return to service.

Realigned left wing fuel level tab as required IAW Cirrus SR22 MM.

Adjusted engine fuel control and propeller governor to gain proper RPM.

Inspected aircraft IAW SB 2X-24-04, amp reading of 60A is indicated on the face of the Dual Amp/Volt Meter. No further action is required.

Inspected aircraft and found that when SB 20-55-03 R2 was complied with no defects were noted. Compliance with SB 20-51-02 does not need to be done.

Complied with SB 20-32-04 R1, Nose Gear Spindle Cup Inspection, IAW accomplishment instructions. No defects noted. No further action required.

Complied with SB 20-25-03, Flight Compartment Seat Track Pin Engagement, IAW accomplishment instructions. No discrepancies noted. No further action required.

Complied with SB 2X-57-05, Attach Fittings Aileron Hinge Bearing and Gap Inspections, IAW accomplishment instructions. Installed shims PIN 17105-002 in left and right aileron outer hinge brackets. No further action required.

Complied with Vacuum System check valve manifold inspection IAW SR20 MM Chapter 37-10 and Airborne Memo # 39. Inspection next due May 2008. Recommend replacement is December 2009.

Cleaned adhesive from right strut. Reattached right MLG strut fairing using epoxy adhesive IAW Cirrus SR20 MM.

YEAR:
DATE

RECORDING
TACH
TIME

TODAYS
FLIGHT

TOTAL
TIME IN
SERVICE

Description of Inspections, Tests, Repairs and Alterations
Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

Cleaned adhesive from right strut. Reattached right MLO strut fairing using epoxy adhesive VAW Cirrus SR20 MM.

Operations
Number of
(entries.)

YEAR	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
				Removed left and right MLO brake assemblies. Removed worn pads and replaced with new pads P/N 065-14100. Install new o-rings P/N MS28775-224. Reinstalled brake assemblies on aircraft. Refer to subsequent corrective action on this work order for bleeding of brakes.
				Tightened tail pipe to muffler flange bolts as required VAW Cirrus SR20 MM.
				Removed left and right flap inboard pivot fairings. Drilled for upper spacer and screw installation. Installed left and right inboard flap pivot fairings.
				Verified flap motor has noise in jack screw when flaps are lowered from 0 to 50%. Per Cirrus Design Tech Rep. Paul, this is not an airworthiness issue. Per Paul all actuators have some kind of noise.
				Sanded out crack on vertical stabilizer's left bond seam from vertical spar to skin and filled with structural adhesive per Cirrus SR20 MM.
				Applied filer to inboard trailing edges on both left and right wing sps as required. Sanded areas and painted as needed. All work done VAW SR20 SRM.
				Tightened elevator torque tube attach bolts on left and right elevator attach points. Elevator control yokes are now tight.
				Verified co-pilot's outboard seat track is loose and contacted Cirrus design technical support. Per Paul, this is for seat alignment when installing seats. It is not a discrepancy.
				Removed right aileron. Inspected activation arm for loose and worn hardware. Found yolk bolt loose. Tightened bolt VAW SR20 MM. Reinstalled right aileron.
				Disconnected left flap drive linkage. Removed 4 working rivets on flap drive fitting and installed new rivets P/N CR3243-4-6. Reconnected left flap drive linkage VAW SR20 SRM.
				Removed instrument air filter and replaced with new filter P/N 1J7-1 VAW SR20 MM.
				Inspected installation of Rosen Sun visors. Found mount screw in pilot's sun visor cross threaded. Removed visor mount and repaired damage to threads of anchor nut. Reinstalled visor mount and sun visor. Fabricated FAA Form 337 for sun visor installation.
				Removed induction air filter and replaced with new filter P/N BA24 VAW SR20 MM.
				Removed underweight portable fire extinguisher and installed a new portable fire extinguisher. Model # offon RTA600. S/N off P-17843. S/N on P-009797.
				Complied with 5 year replacement of gascolator seals. Leak check good.

YEAR: DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
3-21-06				Complied with 5 year replacement of the following flexible fuel lines: gasolator to fuel pump, Duffie to fire wall, battie to fuel pump and Fuel flow transducer to throttle body fuel hoses. Leak check good. Complied with 5 year replacement of fuel system drain valve seals. Detooled wing tanks. Removed 2 each fuel system drain valves from both the left and right wings and replaced with new drain valves P/N 50141-001 UAW SR20 MM. Refueled wings. Performed OPA check of fuel low point drain. Check good. Leak check good. Complied with 5 year replacement of the flexible oil system lines UAW SR20 Complied with 5 year replacement of flexible brake system lines. Bled brake lines. OPA check and leak check good. Complied with 5 year replacement of Alternator. Rudder interconnect shock cords by installing new cord P/N 12983-001. Rigged flight controls. All work done UAW SR20 MM. Complied with annual replacement of turn coordinator batteries UAW SR20 MM. Complied with annual replacement of vacuum regulator filter element by installing new element P/N B3-S-1 UAW Cirrus SR20 MM. Tightened several connections in the static system. The static system and altitude reporting system have been tested and found to comply with SR20 MM 34-10. Rigged all alternator wires and stops UAW SR20 MM. Signed <u>John T. Guelcher</u> for <u>APZGNY7565JA</u> Print <u>John T. Guelcher</u> for <u>COMMONWEALTH AVIATION SERVICE, INC.</u>

Note: 2006 Annual Inspection 3-21-06
Logbook Entry is in Volume I Aircraft Log
342460KSD John Guelcher

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YEAR: 2006 DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
4-27-06	598.4			Removed & Replaced Landing Light with P.N. 50238-001 on Ampco Model AK-Q5596 bulb. I/W Cirrus Maintenance Manual 33-40. Focused beam I/W 33-40. Operation OK John Jaser Jr 342460168



MANUFACTURER: Cirrus
Model: SR20
S/N: 1042
Reg #: N811WM
Date: 3/21/2006
W.O.: M060306
ACT: 550.1
Landings:

AIRFRAME LOGBOOK INSERT

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

The Cirrus Design SR20 S/N 10428 aircraft was inspected IAW current maintenance rules of the Federal Aviation Regulations for an Annual Inspection using the manufacturer's inspection guide and is approved for return to service.

The static system altimeter instrument and automatic reporting system have been tested and found to meet the requirements of FAR Part 43 Appendix E. The altimeter was tested to 20,000 feet. Altimeter P/N 59340-3 S/N 410929.

The ATC Transponder System was tested and found to meet the requirements of FAR Part 43 Appendix F. ATC Transponder P/N 011-00455-00 S/N 84109252.

Up jacked aircraft. Removed and disassembled right MLG tire and wheel assembly. Cleaned and inspected all wheel components. No defects noted. Reinstalled tire and wheel assembly. Installed fire and wheel assembly on aircraft. All work done IAW Cirrus SR20 MM Chapter 32.

Removed and disassembled left MLG tire and wheel assembly. Cleaned and inspected all wheel components. No defects noted. Reinstalled tire and wheel assembly on aircraft. All work done IAW Cirrus SR20 MM Chapter 32.

Removed old ELT batteries and replaced with new batteries P/N MN1300. Batteries next due replacement March 2011.

Removed old battery for outside air temperature gauge/clock and replaced with a new battery P/N 1500. Op's checks OK at this time.

Gained access to turn and bank indicator. Removed old batteries and replaced with 3 each new batteries P/N 1604. Op's test OK at this time. All work done IAW Cirrus SR20 MM. Reinstalled access panel.

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YEAR	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
1986 DATE 4/27/86	598.4			Removed & Replaced Landing Light with P.N. 50238-001 on Anglo Model AK-Q5596 bulb. I/W Cirrus Maintenance Manual 33-40. Focused beam I/W 33-40. Operation OK John J. J. 342460168

Ordered access to vacuum regulator. Removed regulator filter and replaced
with a new filter P/N B3-51 IAW Cirrus SR22 MM

Removed old instrument air filter and replaced with a new filter P/N 1121
IAW Cirrus SR22 MM

Completed with SB 2X-25-04 R1. Distribution Fuel Line Chafing IAW
accomplishment instructions. No further action required

Completed with SB 2X-32-14 R1. Main Landing Gear Main Landing Gear
Firing Modification for inspection hole. IAW accomplishment instructions
No further action required

Inspected all M/G landing gear nuts. No defects noted. Resecured all wet
nuts as required

Resecured middle landing stand off to left and right landing gear struts with
epoxy

Trimmed Rayed and from muffler heated air inlet seal tubing and reinstalled

Completed with SB 2X-37-04 R1. Flight Surfaces Flap Hinge Firing
Replacement IAW accomplishment instructions. Replaced inboard and
middle flap fittings with P/Ns 18735-101 and 18735-102

Checked all throttle cables and cable run to prop governor and fuel injector
All cable runs checked OK. Disconnected cables at prop governor and fuel
injector. Throttle all bolts at firewall. Disconnected cables at throttle lever
and found upper "C" bracket was too tight. Loosened and reattached all
cables and hardware. Performed COP's check. No binding noted at this time

Removed aileron. Repositioned aileron leading edge weights as required and
reinstalled aileron as required IAW SR22 MM

Relocated Aux. COMM Antenna jack box 3 inches forward from previous
location. Fabricated new cover panel for existing holes for aileron.

Checked aileron rigging. Ailerons not making full travel per MM. Rigged
aileron travels and stops IAW Cirrus MM Chapter 27

Inspected M/G for play. Found play to be within tolerance per SR22 MM

Rigged flap, stop and travels IAW Cirrus SR22 MM Chapter 27

Completed with SB 2X-25-17. Cabin Crew Seat Break Over Pin Replacement
IAW accomplishment instructions

YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				
LOGBOOK ENTRY COMMONWEALTH AVIATION SERVICE, INC. BUTLERON AIR d/b/a MILLION AIR - RICHMOND				
MANUFACTURER: Cirrus Model: SR20 S/N: 1042 Reg #: N811WM Date: 2/23/2007 W O: M070138 ACIT: 642.3 TAT NOBBS: 642.3				
AIRFRAME LOGBOOK INSERT The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Pertinent details of the repair are on file at this agency. The Cirrus Design SR20 S/N 1042 aircraft was inspected VAW current maintenance rules of the Federal Aviation Regulations for an Annual inspection using the manufacturer's inspection guide and is approved for return to service. Requirements for AD 2006-07-06 were met when SB 2X-28-04 R1 was complied with on 21 Mar. 2006 @ 590.1 hobbs Requirements for AD 2006-19-10 were met when SB 2X-25-17 R1 was complied with on 21 Mar. 2006 @ 590.1 hobbs and when SB 2X-25-06 R4 was complied with on 2 Feb. 2005 @ 504.5 hobbs All of the requirements for AD 2006-21-03 have been met by the following actions: 1) The brake o-rings were changed at the last annual inspection. 2) SB 2X-32-14 R1 was complied with on 21 Mar. 2006. 3) The FCH is at Rev. A8. Complied with SB 2X-52-04 R2, Cabin Door Strut Modification, VAW accomplishment instructions. Installed kit P/N 70151-001. Complied with FAR 91.207(d), inspection of the ELT. No defects noted. ELT batteries due replacement March 2011. Removed gascolator bowl and discarded old seal and o-ring. Cleaned and inspected. No defects noted at this time. Reinstalled bowl with a new seal P/N HAS1523-6V and new o-ring P/N MS29513-137. No leaks noted afterwards. Removed induction filter and replaced with a new filter P/N BA-24. Removed turn and bank indicator batteries and replaced with 3 each new 9 volt batteries.				

and Alterations
Indicate Number of
or Specific Entries.)

Removed induction filter and replaced with a new filter P/N 24-24
Removed turn and bank indicator batteries and replaced with 3 each new 3
volt batteries

Removed vacuum system regulator filter and replaced with a new filter P/N
4425-16-1-1476 Cirrus SR20 MM

Removed instrument air filter and replaced with a new filter P/N 22-2-1

Removed and replaced as needed, worn seal fluid on left main landing gear
VAW Cirrus SR20 MM

Removed brake assemblies from aircraft and disassembled. Removed o-rings
and replaced with new o-rings P/N M5346 1-1-224. Reassembled brakes and
reinstalled on aircraft. Bled brake system and serviced system to full with
hydraulic fluid

Removed vacuum system check valve manifold. Inspected manifold - No
defects noted. Reinstalled manifold VAW Cirrus SR20 MM

Disassembled throttle quadrant and removed burned edges from detent slot.
Assembled throttle quadrant and inspected. Lubricated throttle and governor
control valves. No binding noted. All work done VAW Cirrus SR20 MM

Complied with SB 2X-27-12 R1, Flight Control System Freeplay, VAW
accomplishment instructions. Modified torque tubes by installing kit P/N
70124-001

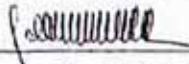
Removed left main tire and wheel assembly from aircraft. Disassembled and
discarded old tire and inner tube. Cleaned and inspected all wheel
components - No defects noted. Reassembled with a new tire and new inner
tube P/N 097-500-0. Torqued bolts as required and serviced with nitrogen.
Performed leak check - No leaks noted. Installed tire and wheel assembly on
aircraft VAW Cirrus SR20 MM. Tire P/N off 156E66-1 S/N 02291143. Tire

Removed right main tire and wheel assembly from aircraft. Disassembled and
discarded old tire and inner tube. Cleaned and inspected all wheel
components - No defects noted. Reassembled with a new tire and new inner
tube P/N 097-500-0. Torqued bolts as required and serviced with nitrogen.
Performed leak check - No leaks noted. Installed tire and wheel assembly on
aircraft VAW Cirrus SR20 MM. Tire P/N off 156E66-1 S/N 10330453. Tire

Removed left MLG axle fitting and strut clamp. Removed defective strut
grommet and replaced with a new grommet P/N 10209-001. Reinstalled strut
clamp and axle fitting and torqued as required. Performed final torque after
aircraft was removed by jacks

Sanded down cracked area on lower right hand wing immediately outboard of
MLG - trailing edge near flap well. Found no delaminations or cracks in skin.
Inspected inside wing and found no structural cracks or delaminations. Sand,
fill, blended and repainted affected area

Contacted Cirrus Design technical support by email with digital photos of the
CAPS harness of this airplane where the warp yarn has come loose. Brendan
S. Fouts, Sustaining Field Engineer for Cirrus Design Corp. states that this
harness is within limits. Refer to letter dated 2 Feb. 2007

Signed 
Print John T. Chandler

DATE YEAR RECORDING
TACH
TIME
TODAYS
FLIGHT
TOTAL
TIME IN
SERVICE

Description of Inspections, Tests, Repairs and Altera
Entries must be endorsed with Name, Rating and Certificate Numbe
Technician or Repair Facility. (See back pages for other specific ent



MANUFACTURER Cirrus		Date	2/23/2007
Model	SR20	W.O.	AV070125
S/N	1042	ACTT	642.3 TAT
Reg #	N811WM	Landings	642.3

AIRFRAME LOGBOOK INSERT

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

Removed MFD and sent to Avidyne Corp. for repair. Installed serviceable rebuilt MFD. MFD checked I/AW SR20 MM Chapter 34-40. MFD off/on P/N 700-00004-002 S/N 1413.

Troubleshoot to/from indication in the HSI. Swapped the Garmin 430. The indication remained the same. Checked the to/from wires between the Garmin GPS 430 connector J503 pins 25 and 26 to HSI NSD1000 connector P600 pin 33 to and pin 34 from - Checked good. Swapped the GNS 430 to original positions. Removed back shell of connector J517 to measure GPS 430 output to the NSD1000. Found possible shorted wire at pin 5 of J517 (to "+"). Repaired shorted wire. The NSD1000 to/from indications checked I/AW SR20 MM 34-50.

Installed new course adjust knob P/N 430-0019-03 for VOR indicator. Functional checked good afterwards.

Removed # 2 VOR indicator for repair of cracked glass. Reinstalled original serviceable repaired # 2 VOR indicator. Functional checked # 2 NAV system. Functional checked good. # 2 VOR Indicator off/on P/N 013-00033-01 S/N 10598A.

Installed power and data buss input provision to the Garmin GPS 396 hand held GPS. Power was supplied to the GPS 396 through a 1 amp Klaxon circuit breaker on the avionics switched 28 VDC buss. Data input was provided from the Avionics electrical stack breaker connector J517 pin 17. Data output provided from the # 1 Garmin GPS. Installed a DB 9 pin connector under pilot's lower left panel. Labeled new circuit breaker as "AUX PWR". All NAV /GPS operations were checked afterward and checked good.

Signed: [Signature]
Print: John T. Gardner
Certificate # AP226787505IA

for
COMMONWEALTH AVIATION SERVICE, INC.

YEAR:	RECORDING	TODAYS	TOTAL
DATE	TACH TIME	FLIGHT	TIME IN SERVICE

Description of Inspections, Tests, Repairs and Alterations
Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

SR20 S/N1042

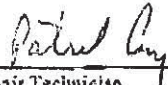
N811WTA

A#070125

1. Approving National Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-1, AIRWORTHINESS APPROVAL TAG					3. Form Tracking Number: RAC 16116	
4. Organization Name and Address: Avidyne Corporation, 55 Old Bedford Road Lincoln, MA 01773							5. Work Order/Contract/Invoice Number: PA216116	
6. Item:	7. Description:	8. Part Number:	9. Eligibility:	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:		
1	MPD	700-00004-002	TSO Article N/A	1	1413	Rebuild		
13. Remarks: Return to service and meets approved TSO design.								
14. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13.				19. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.				
15. Authorized Signature:			16. Approval/Authorization No.:		20. Authorized Signature:		21. Approval/Certificate No.:	
							PT1042NE	
17. Name (Typed or Printed):			18. Date (m/d/y):		22. Name (Typed or Printed):		23. Date (m/d/y):	
							02/06/2007	
User/Installer Responsibilities								
It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.								

AVIDYNE
Customer Repair Report

RMA # 23686	Date February 6, 2007	Returned Unit Serial N^o 1413
Issue DISPLAY SHOWING DISTORTED CONSTANTLY		
Issue Confirmed? ☒ YES ☐ NO		
Service Performed REPLACED VIDEO CABLE, REPLACED BEZEL ASSY, INSTALLED MODS 12, 14, 16, AND 17, UPGRADED SOFTWARE TO RELEASE 530-00180-100 REV. 03, UPDATED NAVDATA, BENCH TESTED - PASSED ALL TESTS.		
Part Number(s) Replaced 100-00091-000 710-00037-000		
Comments NONE		



Repair Technician

February 6, 2007

Date

FAA / UNITED STATES

AUTHORIZED RELEASE CERTIFICATE

FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG

13974

4. Organization Name and Address:



CAPITAL AVIATION INST. & AVIONICS
10660 AVIATION LANE
MANASSAS, VA 20110

5. Work Order, Contract, or Invoice Number:

25698

6. Item:	7. Description:	8. Part Number:	9. Eligibility:	10. Qty:	11. Serial/Batch Number:	12. Status/Work:
1	VOR INDICATOR GI 105	013-00033-01	TBO / N/A	1	10690A	REPAIRED

13. REMARKS: REPAIRED in accordance with 8 TEC Manual# 606705, Rev 1, Dated Apr-20-1983. Full details held on WO 25698

Certifies that the work specified in Block 12/13 was carried out in accordance with EASA 145 and in respect to that work the aircraft component is considered ready for release to service under EASA Acceptance Certificate Number EASA 145.5407

14. Signature of Authorized Representative: 15. Signature of Installer:	18. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.	
	20. Authorized Signature: 22. Name (Typed or Printed): JIM FRANKLIN	21. Approval Certificate No.: DY1R391K 23. Date (m/d/y): Feb/21/2007

User/Installer Responsibilities

It is important to understand that the release of this Document does not unilaterally constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an Airworthiness Authority different from the Airworthiness Authority of the country specified in Block 1, it is essential that the user/installer ensure that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 18 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

CUSTOMER WORK ORDER REPORT

CAPITAL AVIATION INST. & AVIONICS

WO # 26898 Task 1 IN pg 1
FAA CERTIFIED REPAIR STATION # OY1R391K

Cust Code: MILLIO Phone: 1-804-222-3700

MILLION AIR-RICHMOND
400 PORTUGEE ROAD
RICHMOND INTL AIRPORT
RICHMOND, VA 23250 USA



Cust PO#	772		
Item	VOR INDICATOR		
Part #	013-00033-01		
Model	01108		
Serial #	10008A		
Mfg.	S-TEC		
Discrep.	REPAIR VOR INDICATOR		

A/C Tail #	5101 IN
Job Status	FINISHED
Job type	STANDARD
Open Date	Feb-20-2007 Tuesday
Promised	
Started	Feb-20-2007 Tuesday
Finished	Feb-21-2007 Wednesday
Manual #	005706 RevDate 04/20/1983 Rev# 1

Discrepancy

GLASS CRACKED, USE OTHER UNIT FOR PARTS

Progressive Inspection

CONFIRMED DISCREPANCY, ALSO FOUND RESOLVER PINS 5 AND 6 SWAPPED, NAV NEEDLE STICKS, AND ORS KNOB BROKEN.

Corrective Action

**** DESCRIPTION OF SERVICE WORK PERFORMED ****

ADJUSTED NAV LEFT/RIGHT NEEDLE. REPLACED ORS KNOB USING CUSTOMER PROVIDED PARTS, REPLACED GLASS USING CUSTOMER PROVIDED PARTS. CORRECTED PLACEMENT OF PINS 5 AND 6. CLEANED AND TESTED. UNIT MEETS MFG SPECS.

MAINTENANCE RELEASE / RETURN TO SERVICE CRS# OY1R391K

The aircraft, airframe, aircraft engine, propeller, or appliance identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Agency and is approved for return to service. Pertinent details are on file at this repair station under the above work order.

[Signature]
AUTHORIZED SIGNATURE FOR CRS# OY1R391K

2/21/07
DATE

Date: 6/ 5/2007, Aircraft: 811WM, Type: CIRRUS SR-20, S/N: 1042, Hobbs: 659.6, Total Time: 659.6

****AIRFRAME****

Complied with Cirrus Mandatory Service Bulletin SB 2X-95-09 R1 (CAPS Strap Abrasion Inspection) dated April 10, 2007 by visual inspection of the CAPS compartment retaining straps (red) and the CAPS fuselage straps (yellow) for defects (no defects noted), and by installing a sheath (kit p/n 70142-001) on the left fuselage harness strap in accordance with service bulletin instructions. Torqued nuts on the left harness shackle assembly to 105 in/lbs using PME #21, calibrated through 4/27/08. No further action required.

Complied with Cirrus Mandatory Service Bulletin SB A2X-95-10 R2 (CAPS Pick-up Collar Support Replacement) dated April 30, 2007 by installing a new pick-up collar support (kit p/n 70181-002) in accordance with service bulletin instructions. Removed and reinstalled BRS VS225 Rocket Motor Assembly (BRS p/n 14000/D, CDC p/n 12582-104, s/n 00041) to facilitate compliance with service bulletin.

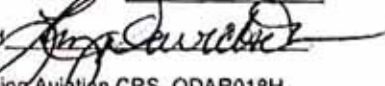
NOTE:

- Rocket Motor expires 3/2012
- Parachute Assembly (BRS p/n 10001/Rev. A, CDC p/n 12582-101, s/n 00040) expires 5/2012
- Line Cutters expired 6/2009

Complied with Cirrus Mandatory Service Bulletin SB 2X-27-14 R1 dated May 24, 2007 by installing new required hardware contained in kit p/n 70187-001 on the rudder-aileron interconnect arm and RH aileron cable in accordance with service bulletin instructions; performing the Rudder-Aileron Interconnect Adjustment/Test; and by performing the Rudder-Aileron Interconnect Inspection/Check. No defects noted. No further action required.

The maintenance described above was performed and inspected in accordance with current FAA Regulations and is approved for return to service only for the work performed. Ref: 14 CFR Part 43.9. Pertinent details of the repair are on file at this repair station under

Work Order number 17525

Signed 

Dominion Aviation CRS ODAR018H
7511 Airfield Drive
Richmond, Virginia 23237
(804) 271-7793

YEAR:

RECORDING
TACH
TIME

TODAYS
FLIGHT

TOTAL
TIME IN
SERVICE

Description of Inspections, Tests, Repairs and Alterations
Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

[illegible]

DOMINION AVIATION

Date: 11/20/2007; Aircraft: 811WM, Type: CIRRUS SR-20; S/N: 1042;
 Hobbs: 672; Total Time: 672; Engine - Type: IO360 ES(6), S/N: 357675;
 Prop - Type: , S/N:

AIRFRAME

Lubricated roll cartridge with LPS1. Operational test good.

Complied with S.B. 2X-53-03 by installing new tail tie down assembly in accordance with the service bulletin. P/N of tail tie down installed 16678-001

The maintenance described above was performed and inspected in accordance with current FAA Regulations and is approved for return to service only for the work performed. Ref: 14 CFR Part 43.9 Pertinent details of the repair are on file at this repair station under

Work Order number 19033

Signed L. Hines

Dominion Aviation CRS ODAR018H
7511 Airfield Drive
Richmond, Virginia 23237
(804) 271-7793

Operations
number of
entries.

YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				
12/23/07	672	1.4	672	Test flight. Roll trim not sticky function normal Autopilot function normal John R Jones Jr John R Jones Jr 342460168
2-3-08	676.3 (37035 new engine)			Installed new Concorde Sealed Main Battery Model RG24-15M serial # 40207233 Function tested OK John R Jones Jr John R Jones Jr 342460168

Date: 7/25/2007; Aircraft: 811WM; Type: CIRRUS SR-20; S/N: 1042;
Hobbs: 662; Total Time: 662; Engine - Type: IO360 ES(6); S/N: 357675;
Prop - Type: S/N:

****AIRFRAME****

Complied with Cirrus Mandatory Service Bulletin SB 2X-27-14 R2 (Rudder-Aileron Interconnect Modification) dated July 10, 2007 by removing the extra washers from the attaching parts securing the forward and aft cable clamps to the RH aileron cable and torqued the nuts as specified in the service bulletin with PME #63 torque wrench calibrated before use on PME #5 torque tester, next calibration due 4/2008. Performed Adjustment/Test and Inspection/Check of Rudder-Aileron Interconnect in accordance with instructions in the service bulletin. No defects noted.

Reviewed Cirrus Mandatory Service Bulletin SB 2X-52-04 R2 (Cabin Door Strut Modification) dated 11/13/2006 and visually inspected LH cabin door. Determined service bulletin had been previously complied with by presence of required kit parts designated in service bulletin. Revision 2 of this service bulletin specifies that operators who have successfully complied with the original release of this service bulletin, dated 6/28/2006, or subsequent revisions need take no further action.

Reviewed AD 2007-14-03 (CAPS Failure), and determined aircraft is in compliance with AD due to Cirrus Mandatory Service Bulletin SB A2X-95-10 R2 dated April 30, 2007 being complied with in its entirety.

The maintenance described above was performed and inspected in accordance with current FAA Regulations and is approved for return to service only for the work performed. Ref: 14 CFR Part 43.9. Pertinent details of the repair are on file at this repair station under

Work Order number 17627

Signed [Signature]

Dominion Aviation CRS ODAR018H
7511 Airfield Drive
Richmond, Virginia 23237
(804) 271-7793

YEAR:
DATE

RECORDING
TACH
TIME

TODAYS
FLIGHT

TOTAL
TIME IN
SERVICE

Description of Inspections, Tests, Repairs and Alterations
Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)



6014 MILLION AIR - RICHMOND
CRS VXXW051W

MANUFACTURER Cirrus

Model:	SR20	Date:	3/6/2008
S/N:	1042	W.C.:	AV080302
Reg #:	N811WM	ACT:	877 2 hobb
		Flight Hours:	

AIRFRAME LOGBOOK INSERT

The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Permanent details of the repair are on file at this agency.

The static system and altimeter instrument and automatic altitude reporting system have been tested and found to meet the requirements of FAR 91.411 Part 43 Appendix E. The altimeter was tested to 20,000 feet. Altimeter P/N: 5054D-3 S/N: 410929

The ATC Transponder System was tested and found to meet the requirements of FAR Part 43 Appendix F. ATC Transponder P/N: 011-09465-00 S/N: 64108252

Calibrated blind encoder in reference to Cirrus SR20 MM, chapter 34-10. Functional checked good afterwards. Blind Encoder P/N: A-30 S/N: 66448

Signed

Print

John T. Gardner

for
COMMONWEALTH AVIATION SERVICE, INC.
F.A.A. Approved Repair Station No. VXXW051W

ion of Inspections, Tests, Repairs and Alterations

st be endorsed with Name, Rating and Certificate Number of
or Repair Facility. (See back pages for other specific entries.)



651a MILLION AIR - RICHMOND
CRS VVWR051W

MANUFACTURER Cirrus

Model	SR20	Date	3/12/2008
S/N	1042	W.O.	M080231
Reg #	N811WM	ACTT	677.2
		Flight Hours	677.2

AIRFRAME LOGBOOK INSERT

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

The Cirrus Design SR20 S/N 1042 aircraft was inspected referencing current maintenance rules of the Federal Aviation Regulations for an Annual Inspection using the manufacturer's current inspection guide and is approved for return to service. The following items were serviced, repaired and/or inspected as noted:

Complied with FAR 91.207(d), Inspection of the ELT. No defects noted. ELT batteries due replacement March 2011.

Complied with SB 2X-27-14 R3, Rudder-Aileron Interconnect Modification, referencing accomplishment instructions. Installed Kit P/N 70197-001.

Complied with SB 2X-76-07 R1, SR20 Heat Exchanger Inspection, referencing accomplishment instructions. No defects noted at this time. Next inspection due in 100 hrs @ 777.2 TAT.

Complied with the annual replacement of the induction filter P/N BA24 referencing Cirrus SR20 MM.

Removed broken left MLG wheel skirt stand off bracket and replaced with a new stand off bracket P/N 17205-002 and removed cracked upper left MLG fairing stand-off and installed a new upper stand-off P/N 13522-001 referencing Cirrus SR22 MM 32-10.

Removed instrument air filter and replaced with a new filter P/N B3-5-1.

Removed vacuum system regulator filter and replaced with a new filter P/N AAD9-18-1 referencing Cirrus SR20 MM.

Removed corrosion from pilots seat frame and treated area as needed referencing Cirrus SR20 MM.

Adjusted seat stops on pilots seat frame to allow seat back to lock in the full recline position.

Adjusted seat stops on co-pilots seat frame to allow seat back to lock in the full recline position.

Removed POH Rev. A7 and replaced with customer supplied POH Rev. A3.

YEAR:	RECORDING	TODAYS	TOTAL
DATE	TACH TIME	FLIGHT	TIME IN SERVICE

Description of Inspections, Tests, Repairs and Alterations
Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

Removed PCH Rev. A7 and replaced with customer supplied PCH Rev. A6

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nes.)

Cleaned and lubricated stiff throttle and prop governor cables. Performed CP1 check. Throttle moves freely with no binding at this time.

Removed worn lower rudder vertical bottom hinge and upper vertical bottom hinge. Installed a new lower rudder vertical bottom hinge P/N 13565-020 and lower rudder vertical upper hinge P/N 10589-003.

Removed corrosion from negative cable of #1 battery and applied dielectric grease for protection.

Re-rigged aileron to neutral position referencing Cirrus SR20 MM.

Removed deteriorated vacuum hoses forward of firewall and replaced with new vacuum hoses and secured with new clamps.

Complied with annual replacement of the brake caliper o-rings P/N 101-65400. Reinstalled brake assemblies, bled brakes and serviced brake reservoir referencing SR20 MM Chapter 32-42.

Complied with time change requirements on CAT OagerClock Battery referencing Cirrus Design SR20 MM. Installed 1 each AA Duracell Battery. Battery next due replacement Feb. 2010.

Complied with time change requirements on turn and bank indicator batteries referencing Cirrus Design SR20 MM. Installed 3 each 9VOLT Duracell Batteries. Next due replacement Feb. 2009.

Complied with 6 year replacement of the engine drive vacuum pump coupling P/N 13565-020 referencing Cirrus SR20 MM.

Disconnected hoses and wiring and removed check valve manifold. Tightened rivets on check valve manifold as needed. Performed inspection of the check valve manifold for leaks afterwards. No leaks noted. Reinstalled vacuum check valve manifold, hoses and wiring.

Installed provisions for battery minder per customer request.

Removed weak rudder aileron interconnect bungee and installed a new bungee cord P/N 12983-001 and rigged referencing Cirrus SR20 MM.

Removed hardware incorrectly installed on nose gear and installed correct hardware as needed.

Requirements for AD 2008-03-16 were met when SB 2X-27-14 R3 was complied with on this work order. No further action required.

Signed

Print

COMMONWEALTH AVIATION SERVICE, INC.
F.A.A. Approved Repair Station No. VXWR051W

YEAR:

RECORDING
TACH
TIME

TODAYS
FLIGHT

TOTAL
TIME IN
SERVICE

Description of Inspections, Tests, Repairs and Alterations
Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

[illegible]

DOMINION AVIATION

"AIRFRAME"

(1) GNS 430, PN 011-00280-00, SN 98314014, MOD (1) 2 3 4 5 6 7 8 1

Customer to reinstall as per FAR 43, Appendix A(c)(31)

The maintenance described above was performed and inspected in accordance with current FAA Regulations and is approved for return to service only for the work performed. Ref: 14 CFR Part 43.9. Pertinent details of the repair are on file at this repair station under

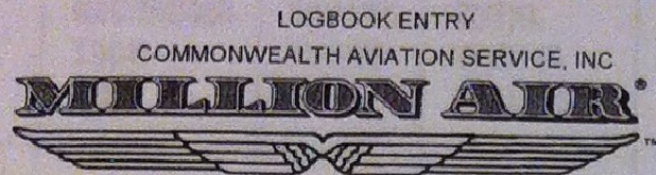
Work Order number 18702

Signed _____

Dominion Aviation CRS ODAR018H
 7511 Airfield Drive
 Richmond, Virginia 23237
 (804) 271-7793

[illegible]

YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endowed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				
	PENN AVIONICS, INC. 1209 Ward Ave West Chester, PA 19380 VFAR/14K LOG ID# 3797 06-July-2008 WOP 135521 AC TT 652.0 NB11NAM S/N 1642 Cirrus SR20			
	Pg 1/1			
	**** ITEM # 13552-1 WAAS Upgrade **** DISCREPANCY: WAAS Upgrade ACTION: Removed existing #1 GNS430 and shipped back to Garmin for WAAS upgrade. Re-installed upgraded GNS430w in same tray. Found that the distance between the Garmin GPS unit and the pilot's horizon exceeded the Garmin field of view spec. Install Mid Continent MD41-2488 remote WAAS annunciator and interface to Garmin GPS unit. Remove existing GA35 GPS antenna. Install New GA35 antenna on outside top skin of aircraft and RG400 coax. Calculate new weight and balance. No changes have been made to the interface between the GNS430w and the existing aircraft systems. No changes have been made to the structural aspects of the existing GPS tray mounting. Provide customer Garmin ICA for the receiver and antenna. All GNS-430w work performed in IAW Garmin STC upgrade Installation Manual 400/500 190-00357-06 Oct 2006 and STC SA01933LA. All antenna work performed IAW Garmin GA35 STC Antenna Installation Manual 190-00359-00 Nov 2006 Rev E and referenced Cirrus SO 2X-34-23. Provide customer new Garmin POH supplement p/n 190-00356-03 Rev 11/20/2007 detailing the operation of this system. Calculate new weight and balance. Ramp test system operational. See 337 this date. **** ITEM # 13552-3 Troubleshoot HSI left right problem **** DISCREPANCY: Troubleshoot HSI left right problem ACTION: Troubleshoot HSI. Found that OMS would not calibrate. Check connector for broken wires, none found. Retensioned pins and cleaned connector. Recheck. system checks good. <i>[Signature]</i> IAC VFAR/14K Chris Vito Guerrero			



d/b/a MILLION AIR - RICHMOND

Cirrus Design Service Center

CRS VXWR051W

Manufacturer:	Cirrus	Date	4/16/2009
Model:	SR20	W O	M090223
S/N	1042	ACTT	696.2
Reg #.	N811WM	Flight Hours	696.2

AIRFRAME LOGBOOK INSERT

The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service for the work performed. Pertinent details of this work order are on file at this repair station.

The Cirrus Design SR20 S/N:1042 aircraft was inspected referencing current maintenance rules of the Federal Aviation Regulations for an Annual Inspection using the manufacturer's current inspection guide and is approved for return to service. The following items were serviced, repaired and/or inspected as noted.

Complied with FAR 91.207(d), Inspection of the ELT. No defects noted. ELT batteries due replacement March 2012. ACK ELT E01 S/N: 031112

Complied with annual replacement of the induction air filter P/N: BA24 referencing Cirrus SR20 MM.

Removed left and right brake assemblies. Removed old o-rings from calipers and installed new o-rings. Cleaned brake assemblies and reinstalled. Bled brakes and serviced hydraulic reservoir as required. P/N M83461/1-224

Complied with time change requirements on turn and bank indicator batteries referencing Cirrus Design SR20 MM. Installed 3 each 9 VDC Duracell batteries. Due replacement at next annual inspection.

Complied with annual replacement of the vacuum regulator filter P/N B3-5-1.

Removed CAPS lines cutters and installed new CAPS line cutters. Re-tied line referencing CAPS manual, P/N: 12020. Line cutters due replacement again Apr 2015.

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The requirements of AD 2008-11-18 were met when SB 2X-78-07 R1 was complied with on March 12, 2008 @ 677.2 hobs. Compliance due again at or before 777.2 hobs.

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Complied with SB 2X-32-18 R2, Nose Landing Gear Upper Gusset Plate and Attach Point Arms Inspection, referencing accomplishment instructions. No defects noted at this time. Compliance with this SB next due at or before 796.2 hobs.

Secured prop control cable bracket at engine as needed.

Removed incorrectly installed hardware on throttle control arm forward of firewall and reinstalled hardware correctly I/A/W Cirrus SR20 AMM 76-10.

Throttle spring at throttle body no longer required for this installation, refer to CDC SA01-06 R1.

Removed incorrectly installed hardware on prop control to governor forward of the firewall and reinstalled correctly I/A/W Cirrus SR20 AMM 76-10.

Complied with SB 2X-27-13, Flap Actuator Mounting Gusset Reinforcement, referencing accomplishment instructions. Installed kit P/N: 70185-001.

Cleaned oil at back of engine near # 2 alternator. Leak checked after run up. No leaks noted.

Installed new NLG bridge P/N 12349-002 with new bolts and new NLG rebound bumpers P/N: 14020-001, referencing Cirrus SR20 AMM 32-20.

Removed defective shock strut to door attach grommets on left and right cabin doors and installed new grommets. P/N: 50580-001.

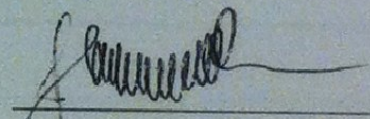
Re-rigged rudder pedals. Rigged rudder control system and aileron/ rudder interconnect I/A/W Cirrus SR20 AMM 27-20.

Complied with replacement of the instrument air filter P/N: 1J7-1.

Secured set screw on overhead light rheostat knob. Ops check good.

Signed:

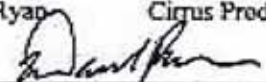
Print:


John T. Gardner
for

COMMONWEALTH AVIATION SERVICE, INC.
F A A Approved Repair Station No. VXWR051W

✓ Replaced
FEB 2015

YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)																
DATE																				
LOGBOOK ENTRY COMMONWEALTH AVIATION SERVICE, INC. MILLION AIR d/b/a MILLION AIR - RICHMOND Cirrus Design Service Center CRS VXXR051W <table border="0"> <tr> <td>Manufacturer:</td> <td>Cirrus</td> <td>Date:</td> <td>4/16/2009</td> </tr> <tr> <td>Model:</td> <td>SR20</td> <td>W.O.:</td> <td>M090106</td> </tr> <tr> <td>S/N:</td> <td>1042</td> <td>ACTT:</td> <td>696.2</td> </tr> <tr> <td>Reg #:</td> <td>N811W/M</td> <td>Flight Hours:</td> <td>696.2</td> </tr> </table> AIRFRAME LOGBOOK INSERT The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service for the work performed. Pertinent details of this work order are on file at this repair station. Repaired damage to right wing leading edge between wing stations 120.5 and 120.9 referencing CDC engineering field repair R9673, dated 6 Feb. 2009. Wing skins were prepped and painted referencing Cirrus SR20 AMM 51-20. Right outboard stall strip was temporarily installed and a verification flight was performed by Dan Ryan, CDC flight test pilot on 4/16/2009 with no defects noted. Right wing outboard stall strip was permanently installed following test flight in the same location. Adjusted idle speed but noted that the throttle creeps forward while engine is running. Opened center console and inspected, found washer missing from tension knob and both throttle and propeller governor cables very stiff. Lubricated both cables and throttle quadrant as needed, verified smooth and correct operation. Installed missing washer on tension knob. Checked and adjusted idle speed and mixture as needed on final ground run, also noted that the throttle does not creep forward. Swapped terminals and positions on battery trickle charger. Secured wiring as required. Signed: <u><i>John T. Gardner</i></u> Print: <u>John T. Gardner</u> for COMMONWEALTH AVIATION SERVICE, INC. F.A.A. Approved Repair Station No. VXXR051W					Manufacturer:	Cirrus	Date:	4/16/2009	Model:	SR20	W.O.:	M090106	S/N:	1042	ACTT:	696.2	Reg #:	N811W/M	Flight Hours:	696.2
Manufacturer:	Cirrus	Date:	4/16/2009																	
Model:	SR20	W.O.:	M090106																	
S/N:	1042	ACTT:	696.2																	
Reg #:	N811W/M	Flight Hours:	696.2																	

YEAR: DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
				N#: N811WM ASN: SR20-1042 WO#: M090106 Hobbs: 696.2 Performed required post maintenance flight test IAW CDC PS 90502/90500 throughout its normal range of operation and found satisfactory. Pilot: Dan Ryan Cirrus Production Flight Test Pilot Signature:  Date: 4/16/2009



DOMINION AVIATION

Date: 4/02/2010; Aircraft: 811WM, Type: CIRRUS SR-20; S/N: 1042.
Hobbs: 763; Total Time: 763; Engine - Type: IO360 ES(6), S/N: 357675,
Time: 763, Prop - Type: S/N:
AIRFRAME

-Installed overhauled #1 alternator (P/N ES 4024LPR S/N J 112059) (Aircraft Accessories CRS # RV3R829L W.O 40958) in accordance with Cirrus SR20 maintenance manual chapter 24. PME # 21 calibrated 4/1/2010. Ops check good.

-Installed new ring terminal at oil cooler tempature sensor in accordance with Cirrus SR20 maintenance manual chapter 79-30

-Installed five new nose landing gear pucks (P/N 11879-006) in accordance with Cirrus SR20 maintenance manual chapter 32-20. Removed lower puck pan. Removed worn pucks. Installed new pucks with .50 shim. Re-installed lower puck pan. Re-secured lower puck pan with castle nuts and cotter pins. Ops check good. PME #21 calibrated 4/2/2010.

-Removed #2 alternator (P/N 653344 S/N H-260221). Removed shear coupling assembly from alternator. Installed shear coupling on overhauled #2 alternator (P/N 649280R S/N J060715) (Aircraft Accessories CRS # RV3R829L W.O. 40957). Installed overhauled #2 alternator with new gasket in accordance with Cirrus SR20 maintenance manual chapter 24. PME #21 calibrated 4/1/2010. Ops check good. Leak check good.

The maintenance described above was performed and inspected in accordance with current FAA Regulations and is approved for return to service only for the work performed. Ref: 14 CFR Part 43.9. Pertinent details of the repair are on file at this repair station under

Work Order number 20856

Signed [Signature]

Dominion Aviation CRS ODAR018H
7511 Airfield Drive
Richmond, Virginia 23237
(804) 271-7793

YEAR: RECORDING: TODAY: TOTAL:

Description of Inspections, Tests, Repairs and Alterations

number of
entries.)



10701 MILLION AIR - RICHMOND
Chris Dodge Service Center
CRS VVWR051W

Manufacturer:	Crus	Date:	4/27/2010
Model:	SR20	W.O.:	AV100414
S/N:	1047	ACTT:	771.9
Reg #:	M811WN	Modbr:	771.9

AIRFRAME LOGBOOK INSERT

The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service for the work performed. Pertinent details of this work order are on file at this repair station.

The static system, altimeter instrument and automatic altitude reporting system have been tested and found to meet the requirements of FAR Part 43 Appendix E. The altimeter was tested to 20,000 feet. Altimeter P/N: 39340-2 S/N: 410929, Bend Encoder P/N: A-30 S/N: 65445.

The ATC Transponder System was tested and found to meet the requirements of FAR Part 43 Appendix F. ATC Transponder P/N: 011-00455-00 S/N: 84100252

Installed wire provision for aux audio input to existing audio control panel referencing Garmin model 196/256/256 Portable Experimental Application Guide and Cirrus SR20 Aircraft Wiring Manual Z3-50-01 for XM weatheradio equipped aircraft.

Signature:

Print:

John T. Gardner

for
COMMONWEALTH AVIATION SERVICE, INC.
F.A.A. Approved Repair Station No. VVWR051W

tion of Inspections, Tests, Repairs and ...
must be endorsed with Name, Rating and Certificate Number of
or Repair Facility. (See back pages for other specific entries.)

LOGBOOK ENTRY

COMMONWEALTH AVIATION SERVICE, INC



d/b/a MILLION AIR - RICHMOND

Cirrus Design Service Center

CRS VXWR051W

Manufacturer:	Cirrus	Date	6/3/2010
Model:	SR20	W.O.:	M100416
S/N:	1042	ACTT:	771.9
Reg #:	N811WM	Hobbs:	771.9

AIRFRAME LOGBOOK INSERT

The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service for the work performed. Pertinent details of this work order are on file at this repair station.

The Cirrus Design SR20 S/N:1042 aircraft was inspected referencing current maintenance rules of the Federal Aviation Regulations for an **Annual Inspection** using the manufacturer's current inspection guide and is approved for return to service. The following items were serviced, repaired and/or inspected as noted.

Complied with **AD 2008-11-18** and found crack at weld, removed defective heat exchanger and shroud. Installed new heat exchanger and shroud referencing CDC SB 2X-28-07 R1 and SR20 AMM 78-20. P/N: 11884-003 and 10869-002.

Complied with **FAR 91.207(d)**, Inspection of the ELT. No defects noted. ELT batteries due replacement March 2012. ACK ELT E01 S/N: 031112.

Complied with **SB 2X-27-16**, Flap Actuator Modification referencing accomplishment instructions. Installed kit, P/N: 70231-001.

Complied with **SB 2X-32-18 R2**, NLG Upper Gusset Plate & Attach Point Arm Inspection. Visually inspected welds referencing accomplishment instructions. No defects noted at this time. Next due @ 871.9 ACTT.

Complied with **SB 2X-71-10 R2** Modification of the Oil Breather Line referencing accomplishment instructions. Installed kit, P/N: 70230-001. No further action required.

Researched aircraft records for **SB 2X-95-12** and found that the CAPS line cutters were replaced on 4/16/2009. No further action required.

Complied with **10 year replacement of CAPS rocket assembly**. Installed new rocket assembly referencing Cirrus SR20 AMM 95-01-01. **Rocket due recharge or replacement: 5/19/2020**. P/N off/on: 21814-001 S/N off: 0041 S/N on: 4886.

Complied with **10 year inspection and repack of the CAPS parachute assy**. P/N: 12582-101 S/N: 00040-R1 Parachute due replacement or inspect & repack on 4/20/2020.

Complied with **annual replacement of the brake caliper o-rings** P/N M83461/1-224. Reinstalled brake assemblies, bled brakes and serviced brake reservoir referencing SR20 MM Chapter 32-42.

Complied with **annual replacement of the turn and bank indicator batteries**.

Complied with **annual replacement of instrument air filter**. Installed new filter referencing Cirrus SR20 AMM 37-10. P/N: B3-5-1.

Complied with **24 month replacement of the outside air temperature gage/clock battery**.

Complied with **5 year replacement of the aileron/rudder interconnect**. Bungee due replacement on June 3, 2015. Rigged referencing Cirrus SR20 AMM 27-20. P/N: 12983-001.

Complied with **time change of ELT remote panel battery**. Installed new battery referencing Cirrus SR20 AMM 25-60. Battery due change April 2018. P/N: PX28L.

Removed and replaced left and right brake temperature labels. P/N: 51698-001. See item # 107 this work order for brake caliper o-ring change.

Removed old erosion tape and adhesive on NLG strut fairing. Filled, sanded, contoured damaged paint, primed, painted and applied new NLG fairing erosion tape referencing Cirrus SR20 AMM 51-20. P/N: AK-009-G3/NS.

Removed defective screws in spinner and installed new screws referencing Cirrus SR20 AMM 61-10.

Removed defective battery terminal boots and installed new boots referencing Cirrus SR20 AMM 24-30. P/N: MS25171-4S.

Removed defective left and right MLG brake linings and installed new linings referencing Cirrus SR20 AMM 32-42. Complied with organic brake lining conditioning procedure. P/N: 066-14100.

Rigged rudder pedal and rudder neutral positions referencing Cirrus SR20 AMM 27-20.

DATE

Removed # 1 battery and complied with capacity test. Battery passed on second test referencing Concorde Document 5-0142. Reinstalled battery. P/N: RG24-15M S/N: 40207233.

Inspected check valve manifold and found rivets loose on both sides of manifold causing leak. Removed and replaced rivets with solid structural rivets referencing AC43.13-1B. Leak check good.

Lubricated alternate air door cable and flapper valve referencing Cirrus SR20 AMM 71-60. Ops check good.

Removed defective left and right brake discs and installed new brake discs referencing Cleveland Wheel & Brake MM section 300. Complied with organic brake lining conditioning procedure. P/N: 164-24400.

Removed defective rebound bumper on right through bolt NLG puck stack, left bumper was missing and installed 2 new rebound bumpers referencing Cirrus SR20 AMM 32-20. P/N: 14020-001.

Installed 2 new bushings on NLG puck stack referencing Cirrus SR20 AMM 32-20. P/N: 12937-001.

Cleaned oil at prop governor area. No leak noted after outgoing run referencing TCM IO-360 EMM 9-2.

Lubricated throttle and propeller governor cables. Throttle moves freely referencing Cirrus SR20 AMM 76-20.

Signed:

Print:

John T. Gardner
for
COMMONWEALTH AVIATION SERVICE, INC.
F.A.A. Approved Repair Station No. VXWR051W

LOGBOOK ENTRY

COMMONWEALTH AVIATION SERVICE, INC



d/b/a MILLION AIR - RICHMOND

Cirrus Design Service Center

CRS VXWR051W

Manufacturer:	Cirrus	Date	6/22/2010
Model:	SR20	W.O.:	M100617
S/N:	1042	ACTT:	774.6
Reg #:	N811WM	Flight Hours:	774.6

AIRFRAME LOGBOOK INSERT

The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service for the work performed. Pertinent details of this work order are on file at this repair station.

Removed defective # 2 ACU and installed new ACU. Still have intermittent fault in the # 1 position with either of the old ACU's installed. Removed defective # 1 ACU and installed new ACU. Performed ground run. Ops check good under all load conditions. Work performed referencing Cirrus SR20 AMM 24-30. # 1 ACU P/N off/on: AC2201 S/N off: 121214 S/N on: D35209 # 2 ACU P/N off/on: AC2201 S/N off: 121219 S/N on: D35207.

Signed:

Print:

Mike Keating
for
COMMONWEALTH AVIATION SERVICE, INC.
F.A.A. Approved Repair Station No. VXWR051W

P-33

YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries)
DATE				

12-4-2011

PENNAVIONICS, INC. 1299 Ward Ave West Chester, PA 19380 VFAR714K
LOG ID# 4879 04-January-2011 WOB 15583M AC TT 216.2
N811WM SN 1042 Cirrus SR20

Pg 1 of 1

*** ITEM # 15583-1 Install Aspen Pro 1000 ***

DISCREPANCY: Aspen Pro 1000

ACTION: Remove existing MSD-360 HSI. Remove existing STEC 5T-901 GPSS. Re-locate existing vacuum horizon to pilots right lower panel in the pilots primary field of view. Install Aspen EFD1000 pro in center of pilot's panel. Interface Aspen to aircraft pitot and static system. Interface Aspen to GNS430 #1 GNS-430 #2. Enter V speeds from aircraft POH. Perform magnetometer calibration. Leak check static system IAW FAR 23.1325 (2)(1) no problems found. Ramp test system operational. Provide owner with Aspen FAA approved POH supplement #A-01-125-00 dated 2/3/2009. Provide customer Aspen ICA # A-01-126-00 Rev H. All work was accomplished IAW Aspen EFD1000 install manual A-01-126-00 Rev H and Aspen STC SA108225C. Revise aircraft weight and balance and equipment list. See 33/ this date.

*** ITEM # 15583-2 Replace com antenna ***

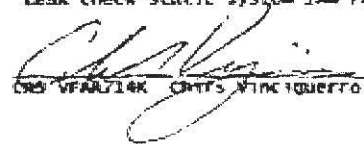
DISCREPANCY: swap com ant.

ACTION: Remove existing Garmin GAB5 GPS antenna at FS 136. Install in same location Aspen RSM module IAW Cirrus SB 58-34-23. No changes have been made to the structural aspects of this antenna mount. Remove aft top mounted com antenna at FS 204 and install in same location using existing mounting footprint Com-ant CL2580-100 GPS WAAS/COM antenna. Ramp test com and GPS operational. Revise equipment list, update aircraft weight and balance.

*** ITEM # 15583-3 Replace ACK A-30 encoder. ***

DISCREPANCY: Replace ACK A-30 encoder.

ACTION: Customer reported intermittent mode C. Check connections hand harness to existing ACK-A30 encoder, no problems noted. Remove existing A-30 and replace with new ACK-A30 encoder. Perform transponder tests IAW FAR 91.413 and found to be in compliance with part 43 appendix F. Leak check static system IAW FAR 23.1325 (2)(1) no problems found.


Chris Vinciguerra

1/24/2011
Date



DOMINION AVIATION

Date: 3/25/2011; Aircraft: 811WM; Type: CIRRUS SR-20; S/N: 1042;
Hobbs: 838; Total Time: 838; Engine - Type: IO360 ES(6), S/N: 357675,
Time: 838; Prop - Type: , S/N:

AIRFRAME

-Ran aircraft to ops check #1 alt. Verified #1 alt. is charging and functioning normally.

-Replaced missing plug on right main wheel fairing with new plug p/n: 2784HEY. Ref. Cirrus SR-20 MM Chapter 32.

The maintenance described above was performed and inspected in accordance with current FAA Regulations and is approved for return to service only for the work performed. Ref: 14 CFR Part 43.9. Pertinent details of the repair are on file at this repair station under

Work Order number _____.

Signed _____.

Dominion Aviation CRS ODAR018H
7511 Airfield Drive
Richmond, Virginia 23237
(804) 271-7793

CAPITAL AVIATION INST. & AVIONICS 10660 AVIATION LANE MANASSAS, VA 20110 OY1R391K
LOG ID# 7690 08-July-2011 WO# 41315 CA 11 AC TT 852.5
N811WM S/N 1042 CIRRUS SR 20

Pg 1

REMOVED ASPEN PFD PN 910-00001-001 SN 7142 AND INSTALLED NEW EXCHANGE UNIT PN 910-00001-001 SN 9973.
FUNCTION TESTED OK. LEAK TESTED I/A/W FAR 91.411.

THE AIRCRAFT, AIRFRAME, AIRCRAFT ENGINE, PROPELLER, OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED AND
INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION AGENCY AND IS APPROVED FOR
RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS REPAIR STATION UNDER THE ABOVE
WORK ORDER.


CRS OY1R391K LESLIE TOUART

Date: 7/13/2011; Aircraft: N811WM; Type: Cirrus; S/N: 1042; Hobbs: 851.8; Total Time: 851.8

-Removed cowling, wing access panel, wing tips, landing gear fairing's, and interior. Inspected wings, fuselage, and flight controls. Removed wheels, greased bearings, and reinstalled. Cleaned engine and performed run up. Inspected for leaks and general overall condition. Performed compression checks and magneto timing. Inspected electrical wiring for chafing and security. Annual inspection completed per Cirrus AMM section 5-20.

-Verified AD compliance through bi-weekly issue 2011-13.

-Complied with the following ADs as noted.

AD2002-26-03 N/A by Aircraft M/N

AD2008-13-28 N/A by Propeller M/N

AD2010-11-04 N/A Records indicate part not installed.

-Completed needed paper work for Concord STC # as required and filled out FAA Form 337.

-Verified AD2008-11-18 IAW SB 2X-78-07R1 (SR20 Heat Exchanger Inspection) was complied with by previously upgraded PN. Next inspection not applicable.

-Removed # 1 battery, charged and inspected as required.

-Removed and replaced back up (9V) batteries with new Duracell MN 1604 Next Due March 2015.

-Inspected ELT in accordance with FAR 91.207 paragraph (c) and (d) . Battery Next due March 2012

-R&R ELT remote switch battery with new Duracel CR1 Next due March 2014

-Removed & replaced clock & panel backup batteries as required with new battery.
New clock batteries expiration date March 2017 P/N MN1500

-Remove fire extinguisher, inspect for age, damage, safety ring, and check weight. Label of compliance check will be placed on the fire extinguisher and next check date Aug 2011.

-R&R brake caliper O-rings with new and complied with SB 2X-05-01 (Overhaul and replacement schedule- brake assembly O-Ring replacement interval) by installing Kit # 70227-002.

-Research All Cirrus Service Bulletins for this S/N aircraft and complied with all requested applicable SBs at this time.

-Verified compliance with the following SBs by visual inspection as required.

SB2X-25-05R2 (Release of AM-Safe Mandatory service Bulletins 504907-25-02 and 504491-25-01)

SB2X-25-06R4 (Crew Seat Recline Lock Installation)

SBA2X-25-08 (Crew Seat Break -Over Bolt Adjustment)

SB2X-28-03R1 (Fuel selector valve Extension Shaft Sleeve Installation)

SB2X-32-08R1 (Brake Line Inspection and Anti Chafe Spacer Installation)

SB2X-55-10 (Horizontal Stabilizer Inspection Hole Closeout)

SB2X-71-10R2 (Oil Breather Line Insulation Sleeve Installation)

SB2X-95-07 (CAPS Bulkhead 222 Placard Installation)

SB20-95-04 (Replacement of CAPS Activation Handle Bracket)

SB2X-95-06 (CAPS Lanyard Rigging Inspection)

-Removed, cleaned & set proper tension on NLG fork assy as required.

-Installed CAPS activation cable properly in igniter cone. Replaced cover plug as required with P/N 53209-001.

-Torqued RH fuselage parachute strap harness bolts as required.

-Cleaned #2 EGT connector & installed kit # 70134-003.

Also applied High temp RTV at the spring end of each connector to prevent further chafing.

-Removed MFD and installed MFD PN 700-0004-006 SN 1628 as required.

-Complied with with SB 2X-27-16 R1 by installing kit # 70255-001.

-Complied with SB2X-32-18R4 (Nose Landing Gear Upper Gusset Plate and Attach Point Arms Inspection). Next due for inspection at Hobbs: 951.8

-Visually verified SB20-55-09 (Installation of Improved Lower Hinge Assembly) N/A by part not installed.

-Complied with SB20-95-03 by installing kit # 70040-001.

-Complied with SB2X-95-12 by rigging caps line cutters properly.

-Removed & replaced both main tires & tubes with new Goodyear FC III tires P/N 156E66-4 and new Michelin 15x6x6 tube P/N 097-500-0 as required.

-Performed post inspection operational check of aircraft systems - all working normal at this time.

-Work performed with reference to Cirrus SR-20 AMM.

I certify this aircraft has been inspected in accordance with an annual inspection with reference to Cirrus AMM Section 5-20 and is found to be airworthy at this time.

Steve Miller _____ A&P 2700197IA
Leading Edge Aviation Manassas LLC
9990 Wakeman Dr. Manassas VA 20110
KHEF Manassas Regional Airport.



US Department
of Transportation
Federal Aviation
Administration

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

Form Approved
OMB No. 2120-0020
11/30/2007

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 United States N811WM	Serial No. 1042	
	Make Cirrus Design Corp.	Model SR-20	Series
2. Owner	Name (As shown on registration certificate) ICARUS AVIATION LLC		Address (As shown on registration certificate)
			Address 3811 SOLEBURY PL
			City Midlothian State VA
			Zip 23113 Country United States

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
☐	☒	AIRFRAME	_____	(As described in Item 1 above)	_____
☐	☐	POWERPLANT	_____	_____	_____
☐	☐	PROPELLER	_____	_____	_____
☐	☐	APPLIANCE	Type	_____	_____
			Manufacturer	_____	

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency	
Name Steve Miller		☒ U. S. Certificated Mechanic	Manufacturer
Address 6582 Eureka Springs Rd.		☐ Foreign Certificated Mechanic	C. Certificate No.
City Tampa State FL		☐ Certificated Repair Station	2700197
Zip 33610 Country _____		☐ 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 ☐	Signature/Date of Authorized Individual
--	---

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	Repair Station	☒ Inspection Authorization	Other (Specify)

Certificate or Designation No. 2700197	Signature/Date of Authorized Individual July 8, 2011 Steve Miller
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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.)

United States N811WM

Nationality and Registration Mark

Date

Installed Concorde RG24-15M according to STC SA01304WI.

Weight and balance updated as required.

☐ Additional Sheets Are Attached



US Department
of Transportation
Federal Aviation
Administration

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

Form Approved
OMB No. 2120-0020
11/30/2007

Electronic Tracking Number

For FAA Use Only

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1. Aircraft	Nationality and Registration Mark United States N811WM	Serial No. 1042	
	Make Cirrus Design Corp.	Model SR-20	Series
2. Owner	Name (As shown on registration certificate) ICARUS AVIATION LLC		Address (As shown on registration certificate)
			Address 3811 SOLEBURY PL
			City Midlothian State VA
			Zip 23113 Country United States

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
☐	☒	AIRFRAME	_____	(As described in Item 1 above)	_____
☐	☐	POWERPLANT			
☐	☐	PROPELLER			
☐	☐	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency	
Name Steve Miller		☒ U. S. Certificated Mechanic	Manufacturer
Address 6582 Eureka Springs Rd.		Foreign Certificated Mechanic	C. Certificate No.
City Tampa State FL		Certificated Repair Station	2700197
Zip 33610 Country		Certificated Maintenance Organization	

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Extended range fuel per 14 CFR Part 43 App. B ☐	Signature/Date of Authorized Individual
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BY	FAA Fit. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee	Repair Station	☒ Inspection Authorization	Other (Specify)

Certificate or Designation No. 2700197	Signature/Date of Authorized Individual July 8, 2011 Steve Miller
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8. Description of Work Accomplished

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

United States N811WM

Nationality and Registration Mark

Date

Installed Concorde RG24-15M according to STC SA01304WI.

Weight and balance updated as required.

☐ Additional Sheets Are Attached

Date: 7/14/2011; Aircraft: N811WM; Type: Cirrus; S/N: 1042; Hobbs: 852.5; Total Time: 852.5

-Removed and replaced cylinder # 5 and cylinder #6 heat bands with new heat bands P/N CH 38-16R and P/N CH38-16L as requested.

-Removed and replaced defrost control linkage with P/N MS 20253P2-580
and Threaded Coupler P/N 12111-101
OPPS check good.

The above work was performed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service pertaining to work performed.

Keston Rattan _____ A&P 3539360

Leading Edge Aviation Manassas LLC
9990 Wakeman Dr. Manassas VA 20110
KHEF Manassas Regional Airport.

N#: 811WM
WO#: V12-0313
DATE: 7/25/2012
HOBBS: 957.4
TTSN: 957.4



FAA REPAIR STA.
#RSUR804H
VARs-115

Serviced Tires, Serviced Brake Reservoir. C/W ELT Inspection
IAW FAR 91.207 and ACK E-01 Installation/Maintenance Manual
Battery Due 03-2018. Re-racked the GTX330 and both GNS430
units. R&R Nose wheel bearings with new P/N 08125-20629 and
cups P/N 08231-20629. R&R the RH wing NAV Light P/N A508-
28. I certify that this airframe has been inspected in accordance
with an annual inspection using Cirrus Guide Dated May 31, 2011
and was determined to be in airworthy condition. End.

Signature: _____

A handwritten signature in black ink, written over a horizontal line.

N#: 811WM

WO#: V13-0887

DATE: 7/23/2013

HOBBS: 986.0

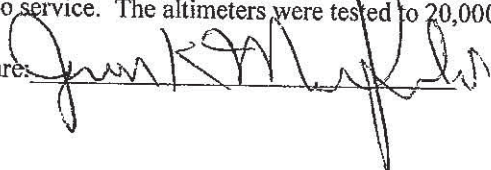


FAA REPAIR STA.

#RSUR804H

VARs-130

I certify that the static system, altimeter systems, and the automatic pressure altitude reporting system test required by the FAR 91.411 have been performed in accordance with Appendix E of FAR 43 and current regulations of the Federal Aviation Administration and the aircraft is approved for return to service. The altimeters were tested to 20,000 feet. End.

Signature: 

Please affix to your aircraft/engine log book.

N# 811WM

WO#: V13-0887

DATE: 7/23/2013

HOBBS: 986.0



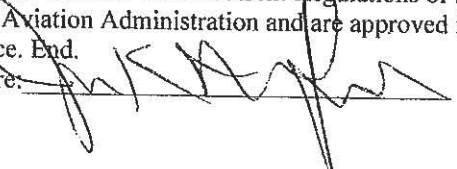
FAA REPAIR STA.

#RSUR804H

VARs-131

Transponder Model GTX330 SN# 84109252

I certify that the above transponder was given a biennial check as required by FAR 91.413 in accordance with Appendix F of FAR 43 and current Regulations of the Federal Aviation Administration and are approved for return to service. End.

Signature: 

N#: 811WM
WO#: V13-0887
DATE: 7/23/2013
HOBBS: 986.0



FAA REPAIR STA.
#RSUR804H
VARs-115

TTAF: 986.0

Complied with ELT inspection as per 91.207. Battery due 3/2018.

Complied with SB 2X-05-01 by inspecting the temperature stickers. Orings due 07/2016 i/a/w SB 2X-05-01. C/W AD 08-11-18. No leaks noted.

Removed and replaced AA clock battery. Next battery due 07/15. Removed and replaced turn coordinator backup battery with 3 new 9 volt batteries.

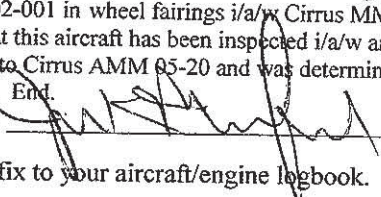
Next due 07/15. Removed both upper rebound bumpers PN# 14020-001 and installed bumpers i/a/w Cirrus MM 32-20 Page 23. Rubber bushings

PN# 50803-001 removed and installed new bushings PN# 50803-001 in wings. Removed PN# 50802-001 rubber bushings and replaced with new

PN# 50802-001 in wheel fairings i/a/w Cirrus MM 32-10 Page 3 PP 3A. I

certify that this aircraft has been inspected i/a/w an Annual Inspection with reference to Cirrus AMM 05-20 and was determined to be in airworthy

condition. End.

Signature: 

Please affix to your aircraft/engine logbook.



The Standard

AIRCRAFT LOG

ASA-SA-2

Heart of Virginia Aviation
11152 Airpark Rd
Ashland, VA 23005



Phone: 804-798-6500
Fax: 804-798-6544
WO # A14-6678

ctions, Tests, Repairs and Alterations
id with Name, Rating and Certificate Number of
cility. (See back pages for other specific entries.)

N811WM

July 10, 2014

Aircraft Hobbs: 1015.3 Aircraft Total Time: 1015.3

- Complied with Annual inspection in Accordance with FAR 43 Appendix D.
- Removed all panels. Lubricated all flight controls. Tested and Inspected AKC-E-01
- ELT SN031112 in Accordance with FAR 91.207(d). Battery due 03/2018. CW SB
- 2X-05-01 by inspection of temp. stickers on brakes. Replaced right main brake
- caliper O-ring and linings. Serviced brakes. Installed new stickers on right main
- brake caliper. Replaced right and left main brake hoses at calipers. CW AD 08-11-
- 18 by pressurization and inspection. Next due, Hobbs 1115.3. Updated GNS 430W
- #1 to latest software version 5.1 IAW SB1403 Rev. A. I certify that this aircraft has
- been inspected in accordance with an annual inspection and was determined to be in
- airworthy condition.

Daniel Mcsherry AP3110300IA

MAKE: Cirrus
MODEL: SR20
S/N: 1042

REG. NO: N811WM
WORK ORDER:
3750-01-2015



Advanced Lancaster LP

530 Airport Rd.
Litz, PA 17543
Phone: 717-735-5179

DATE: 2/6/2015
A/C TSN: 1085.5
HOBBS: 1085.5

Airframe Entries

- Removed and replaced the CAPS reefing line cutters with serial numbers 7584 and 7626, next due 12/20.

Maintenance Release

The aircraft and/or component(s) on N811WM was repaired and inspected in accordance with the current rules and regulations of Title 14 of the Code of Federal Regulations, was found Airworthy and was returned to service.

DATE: 2/6/2015

SIGNED:

Richard A. Barnhart II, IA: 3124994AP

Work Order: 3750-01-2015

Printed by EBis 3 (datcomedia.com)

CIRRUS SR20 N811WM

12/14/2011



LANCASTER AVIONICS, INC

LANCASTER AVIONICS INC. CRS # LN7R261N

I CERTIFY THAT THE ALTIMETER, ENCODER AND
STATIC SYSTEM TESTS REQUIRED BY FAR 91.411
HAVE BEEN PERFORMED I/A/W FAR 43 APPENDIX E

UNIT	TYPE	TESTED TO
#1 ALTIMETER	ASPEN	18,000'
#2 ALTIMETER	UNITED	18,000'
ENCODER (S)	A.C.K.	18,000'
STATIC SYSTEM TEST DATE <u>2-12-15</u>		
SIGN <u>Richard A. Stalter</u> DATE <u>2-12-15</u>		

1085.5

P.1 of 4

ALTIMETER/STATIC and ENCODER EVALUATION PER FAR 91.411 - FAR 43, APPENDIX 'E'

Customer: <u>RICHARD J. SMITH</u>		Aircraft Type: <u>SR20</u>		NR: <u>N811WM</u>	
Altimeter	Manufacturer	Part Number	Serial Number	Test Alt	Pilot
Pilot	ASPEN	Y10-00001-001	9973	Test Ceiling	18000
Co-Pilot	UNITED	5934D-9A.249H	410929	System Leak	20 FPM
Encoder	A.C.K.	A-30	120633	Hysteresis:	9,000'
				50%	N/A
				40%	7,200'
				After Effect	0'
					N/A
					+/- 75
					-25'
					-30'
					-5'
					+/- 75
					-25'
					-20'
					+5'
					+/- 30
					-5'
					+10'

Error	Pilot	Co-Pilot	Tol	Encoder 125'	Friction
-1000	+10	-5	20	N/A	-985
zero	0	-5	20	-80	20
500	0	-15	20	425	525
1000	+5	-5	20	930	1035
1500	+10	-15	25	1435	1535
2000	+10	-5	30	1925	2025
3000	+5	-10	30	2940	3040
4000	+5	-10	35	3940	4045
6000	+5	-20	40	5960	6060
8000	+10	-30	60	7965	8065
10000	+10	-30	80	9965	10070
12000	+5	-30	90	11975	12075
14000	+5	-25	100	13990	14095
16000	0	-20	110	16000	16090
18000	0	-5	120	17995	18095
20000			130		
22000			140		
25000			155		
30000			180		
35000			205		
40000			230		
45000			255		
50000			280		

Pressure - Alt Diff. Tol +/- 25	Pilot	Tol	Co-Pilot
28.10"	-1714	-1727	-1735
28.50"	-1328	-1340	-1355
29.00"	-850	-863	-865
29.50"	-383	-382	-410
29.92"	+10	+870	-5
30.50"	543	+531	520
30.90"	906	+593	875
30.99"	983	+574	980

Pilot Altimeter	PASS	FAIL	Technician: <u>Richard A. Stalter</u> (Signature)
Co-Pilot Altimeter	X		
Encoder	X		
			Date: <u>2-12-15</u>

(717) 569-1953 Phone
(717) 569-1722 Fax

Lancaster Avionics Inc.
500-U Airport Rd
Lititz, PA 17543

CRS# LN7R261N

YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				

LANCASTER AVIONICS, INC. 500-U AIRPORT ROAD LITITZ, PA 17543 CRS# LN7R261N
 LOG ID# 3731 17-February-2015 WO# 19628 AC TT 1085.5
 N811WM S/N 1042 CIRRUS DESIGN CORP. SR20

Pg 1 / 2

- Removed Garmin GTX330 s/n 84109252 and sent to Garmin for upgrade. Installed upgraded GTX330ES s/n 84109252 with software version 7.02 and made appropriate wiring changes to GTX330ES system IAW STC# SA01714WI. Inserted GTX330ES/ADS-B Flight Manual Supplement in POH. All work was accomplished IAW AC43.13-1B/-2B Chapters 2 & 3, and appropriate manufacturer's installation manuals. All wiring/cabling used for installation purposes meets or exceeds the following specifications: (M17/29, and/or M17/60) - coax; (M22759, M27500, and/or M81044) - wire. All circuit breakers used for installation purposes were of the Klaxon, Potter/Brumfield, and/or Mechanical Products variety. All of the above installed equipment was functionally tested and was found to perform its intended function with no adverse effects on other aircraft systems. Weight and Balance change negligible. Equipment list revised.

- Validated that the previous installation of a Garmin # 2 GNS430 s/n 96314014 was installed IAW with Cirrus TC and was approved for GPS IFR Enroute, Terminal, & Non-Precision Approach operations per Cirrus Design original Type Certificate. Verified this aircraft and all interfaced equipment are covered under the AML for STC# SA01933LA and Garmin 400W/500W Series Upgrade Manual p/n 190-00357-06 Rev B (or later) per TSO-C146a. GPS/WAAS Antenna was installed between headliner and fuselage behind co-pilot headrest the #2 GNS430W. GNS430 was removed and sent to Garmin for upgrade, and reinstalled as a Garmin model GNS430W. Verified all existing interfaces to be in compliance the 400W/500W Series Upgrade Manual and operating as intended. Verified any new interfaces to be in compliance with the Garmin 400W Series Installation Manual p/n 190-00356-02 Rev B (or later) and operating as intended. Completed Interface Checkout Log. Removed previously approved Flight Manual Supplement for the GNS430 and inserted new GNS430W Flight Manual Supplement FAA Approved date into Aircraft Flight Manual. Updated the aircraft Equipment List. #2 GNS430W not approved for Precision GPS Approaches. Weight and Balance change negligible. Electrical Load Analysis remains valid since new system draws same or less current and original units. Inserted Garmin supplied Instructions for

p 2.14

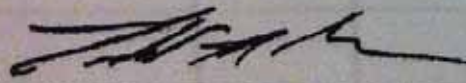
YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				

LANCASTER AVIONICS, INC. 500-U AIRPORT ROAD LITITZ, PA 17543 CRS# LN7R261N
 LOG ID# 3731 17-February-2015 WO# 19628 AC TT 1085.5
 N811WM S/N 1042 CIRRUS DESIGN CORP. SR20

Pg 2 / 2

Continued Airworthiness p/n 190-00356-65 in the aircraft records.

- COMPLIED WITH FAR 91.411 AND FAR 43, APPENDIX E ALT./ENC./STATIC SYS CERT. COMPLIED WITH FAR 91.413 AND FAR 43, APPENDIX F 2YR TRANSPONDER CERT.
- ADJUSTED BAROMETRIC CORRECTION SCALE TO MEET CERTIFICATION SPECS I.A.W. FAR 91.411 AND FAR 43, APPENDIX E.
- FOUND MOUNTING NUT LOOSE ON KX99 AND SHORTING TO SHIELD GROUND. REATTACHED LOOSE HARDWARE, FINAL CHECKS GOOD.
- RADIO STACK HAD TO BE REMOVED TO FACILITATE THE GTX330 "ES" UPGRADE PER ITEM # 1 AND #2 WAAS UPGRADE PER ITEM #2. RADIO STACK WAS ORIGINALLY DESIGN BY CIRRUS AIRCRAFT TO BE REMOVABLE BUT FOUND THAT AFTER MARKET INSTALLATION WORK, INCLUDING THE ASPEN PFD SYSTEM AND OTHER, WAS ACCOMPLISHED IN A MANNER THAT NO LONGER FACILITATED RADIO STACK REMOVAL AS CIRRUS INTENDED. FURTHERMORE, RACK ASSEMBLY WAS FOUND UNRIVETED THUS TRAY WERE LOOSE IN THE RACK ASSEMBLY. TO REMOVE RACK ASSEMBLY, THE ENTIRE ASPEN PFD WIRING HARNESS TO THE GNS UNITS HAD TO BE CUT ALONG WITH MULTIPLE POWER/GND WIRES GOING TO THE BREAKER PANEL THAT INTERTWINED AMONGST THE RACK WIRING. FOLLOWED CIRRUS AIRCRAFT DESIGN BY INSTALLING DISCONNECT PLUGS FOR THE ASPEN TO GNS HARNESSING AND REWIRED THE RACK ASSEMBLY TO MATE WITH THE NEW DISCONNECT PLUGS. REWORKED THE CIRCUIT BREAKER PANEL BY REROUTING POWER/GND WIRES TO FACILITATE RADIO RACK REMOVAL. SECURED RADIO TRAYS IN RADIO RACK BY INSTALLING MISSING RIVETS. REASSEMBLED RADIO RACK AND PERFORMED OPERATIONAL CHECKS IN CONJUNCTION WITH ITEMS #1 & #2. ALL SYSTEMS OPS CHECKED GOOD.
- UPDATED MAIN SOFTWARE FROM V5.1 TO V5.2 AND GPS SOFTWARE FROM V3.1 TO V5.0 I.A.W. GARMIN SERVICE BULLETINS 1474, REV. A & 1315, REV. A. UPDATED TERRAIN DATABASE FROM 08T1 TO 08T2 I.A.W. GARMIN SERVICE BULLETIN 0820. UPDATED AIRCRAFT FLIGHT MANUAL SUPPLEMENT TO 190-00356-03, REV. E AS REQUIRED.


 Todd Adams

p3064

rations
ber of
ntries.)

DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS

1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG		3. Form Tracking Number: RMA 77887445	
4. Organization Name and Address: GARMIN International 1200 E 151st Olathe, KS 66042				5. Work Order/Contract/Invoice Number: RMA 77887445	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1.	GTCS30 ES Black/NonDiversity 2A, Final	011-00455-60	1	84109252	MODIFIED
12. REMARKS: Upgraded unit to include ES capability. Confirmed all applicable hardware modifications are installed. Updated software to the latest version. Unit passed all tests and is operating within normal limits. OK to return to service.					

This unit complies with the Service Bulletin 1240. It is the responsibility of the installer to verify that the installation complies with the previous listed Service Bulletin. The following MOD's were installed into this unit under its previous configuration prior to it being upgraded and configuration changed to part number 011-00455-60. This unit complies with MOD 2 per Garmin's Service Bulletin No. 0714.

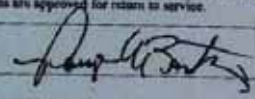
This "Certificate that the work specified in block 11/12 was carried out in accordance with EASA Part-145 and in respect to that work the component is ready for release to service under EASA Part-145 Approval Number: EASA.145.5514". The work that was performed on this unit was done to meet the requirements of all previous of the maintenance manual part number 190-00104-00 Rev A2, Revision Date 7/2/2014.

Thank You for Choosing Garmin! If you have any questions or concerns please do not hesitate to contact our customer service department at 1-800-800-1020. Please view Garmin's web site at www.garmin.com for any updates or product information.

ertificate Number of
ther specific entries.)

DATE: 3/17/2015
A/C TSN: 1085.5
HOBBS: 1085.5

All repaired or replaced GARMIN units have a 90-day warranty or the continuation of the original factory warranty from the original purchase date, whichever is longer.

3a. Certifies the items identified above were manufactured in conformity to:		14a. ☒ 14 CFR 43.9 Return to Service ☒ Other regulations specified in Block 12	
☐ Approved design data and are in condition for safe operation ☐ Non-approved design data specified in block 12		Certifies that unless otherwise specified in block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.	
3b. Authorized Signature	13c. Approval/Authorization No.	14b. Authorized Signature:	14c. Approval Certificate No.
N / A	N / A		G6XR583Y
3d. Name (Typed or Printed)	13e. Date (dd/mm/yyyy)	14d. Name (Typed or Printed)	14e. Date (dd/mm/yyyy)
N / A	N / A	Paige E. Barta	05 Feb 2015

ft at the flap attach point.
hoe... Removed and
red mag harness as
aced the rear seat pins with

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the Airworthiness Authority of the country specified in block 1.

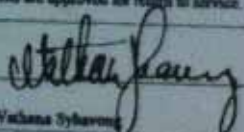
Statements in Block 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

current rules and regulations

Work Order: 3773-02-2015
by EBis 3 (datcomedia.com)

p 4 of 4

s and Alterations
 Certificate Number of
 other specific entries.)

Authority/Country: FAA/UNITED STATES		AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG		RMA 77922792	
Organization Name and Address: GARMIN International 1200 E 151st Olathe, KS 64602		Certificate No. G6XRSE2Y		5. Work Order/Contract/Service Number: RMA 77922792	
Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1.	GPS430W,28V,DN,Uptd	011-01560-45	1	96314014	REPAIRED
13. REMARKS: Confirmed. Modified unit to include WAAS capability, repaired the Main board and replaced broken part and the CPU board to correct other issues. Confirmed all applicable hardware modifications are installed. Updated software to the latest version. Aground test for optimum performance. Master cleared unit. Unit passes all tests and is operating within normal limits. Unit accepted condition OK to return to Service. The Main and GPS Software are at the latest version. This unit complies with those Service Bulletins 1317, 1441. It is the responsibility of the installer to verify that the installation complies with the previous listed Service Bulletins. The following Mod's were installed into this unit under its previous configuration prior to it being upgraded and configuration changed to part number 011-01560-45. This unit complies with MOD 1 per Garmin's Service Bulletin No. 9902 and the Federal Aviation Administration Airworthiness Directive AD 2001-23-13. This "Certifies that the work specified in block 11/12 was carried out in accordance with EASA Part 145 and in respect to that work the component is ready for release to service under EASA Part 145 Approval Number: EASA.145.0154". The work that was performed on this unit was done to meet the requirements of all sections of the maintenance manual part number 190-00344-00 Rev. AE, Revision Date 7/02/2014. Thank You for Choosing Garmin! If you have any questions or concerns please do not hesitate to contact our customer service department at 1-800-800-1030. Please visit Garmin's web site at www.garmin.com for any updates or product information.					
All repaired or replaced GARMIN units have a 90-day warranty or the continuation of the original factory warranty from the original purchase date, whichever is longer.					
a. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in condition for safe operation ☐ Non-approved design data specified in block 12		14a. ☒ 14 CFR 43.9 Return to Service ☐ Other regulations specified in Block 12 Certifies that unless otherwise specified in block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
b. Authorized Signature N / A		13c. Approval/Authorization No.: N / A		14b. Authorized Signature:  Wathana Sylavong	
d. Name (Typed or Printed) N / A		13e. Date (dd/mm/yyyy) N / A		14c. Approval/Certificate No.: G6XRSE2Y 14e. Date (dd/mm/yyyy) 10 Feb 2015	
User/Installer Responsibilities					
It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the Airworthiness Authority of the country specified in block 1. Statements in Block 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.					

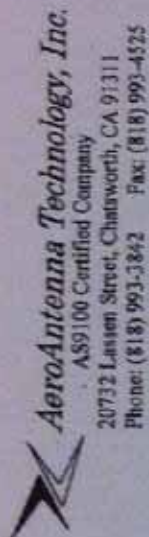
DATE: 3/17/2015
 A/C TSN: 1085.5
 HOBBS: 1085.5

craft at the flap attach point.
 shoe... Removed and
 cured mag harness as
 placed the rear seat pins with

the current rules and regulations
 :

Work Order: 3773-02-2015
 ted by EBis 3 (dalcomedia.com)

p 4 of 4



CERTIFICATION OF CONFORMANCE

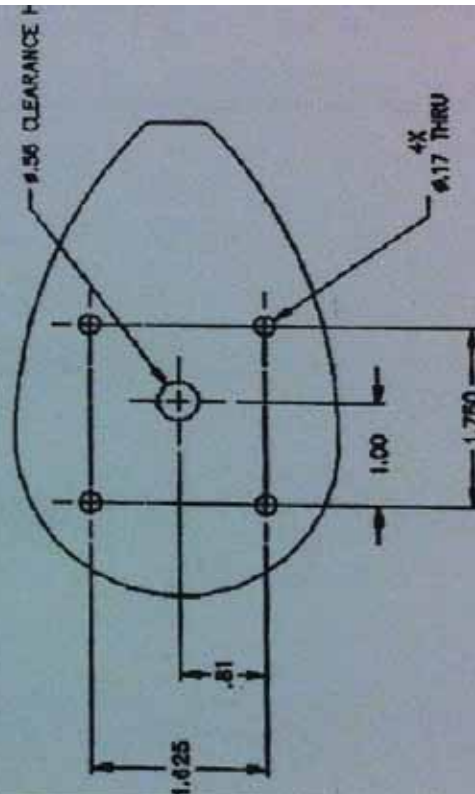
AAT Part Number: AT575-93GW-TNCF-000-RG-27-NM
 Customer PO Number: 207965
 Customer Part Number: 013-00235-00 GA35
 Serial Number: 112146

AeroAntenna Technology, Inc. certifies that the above mentioned antenna was manufactured in accordance with specifications and standard quality assurance practices and procedures, and meets all requirements as stated in the above purchase order as well as shipment and delivery instructions.

Quality Assurance: *Benjamin Rubenl* Date: 10/16/2014

CERTIFICATION OF CONFORM

NOT TO SCALE. Use an accurate measuring instrument for installation.
 A calibrated torque wrench must be used during installation. Torque value for mounting screws is 13-15 in/lbs. The 4 supplied mounting screws must be used and no substitutes are allowed. Do not deviate from these installation methods or use alternate screws as damage to the antenna may result.



DATE: 3/17/2015
 A/C TSN: 1085.5
 HOBBS: 1085.5

ally of the aircraft at the flap attach point.
 qued oil cooler shoe... Removed and
 ic pump.... Secured mag harness as
 moved and replaced the rear seat pins with

re-usable bow-ties.

Maintenance Release

The aircraft and/or component(s) on N811WM was repaired and inspected in accordance with the current rules and regulations of Title 14 of the Code of Federal Regulations, was found Airworthy and was returned to service.

DATE: 3/17/2015

SIGNED:

John Bolgi, A&P: 3468922

Work Order: 3773-02-2015

Printed by EBis 3 (datcomedia.com)

p 4 of 4

LANCASTER AVIONICS, INC. 500-U AIRPORT ROAD LITITZ, PA 17543 CRS# LN7R261N
LOG ID# 3757 27-March-2015 WO# 19749
N811WM S/N 1042 CIRRUS DESIGN CORP. SR20

Pg 1 / 1

**** ITEM # 19749-1 REPAIR AUTOPILOT ****

DISCREPANCY: AUTOPILOT POPS CIRCUIT BREAKER.

ACTION: REPLACED AUTOPILOT ROLL RELAY. PLACARDED AUTOPILOT INOP. NO FURTHER ACTION TAKEN. A LIST OF CUSTOMER DEFERRED DISCREPANCIES WERE PROVIDED TO THE PILOT/CUSTOMER.

Todd Adams

MAKE: Cirrus
MODEL: SR20
S/N: 1042
REG. NO: N811WM
WORK ORDER:
3831-03-2015



Advanced Lancaster LP

530 Airport Rd.
Lititz, PA 17543
Phone: 717-735-5179

DATE: 4/15/2015
AC TSN: 1090.3
HOBBS: 1090.3

Airframe Entries

Removed and replaced the roll trim motor, installed S/N H1508/1238. Ops check good.

Maintenance Release

The aircraft and/or component(s) on N811WM was repaired and inspected in accordance with the current rules and regulations of Title 14 of the Code of Federal Regulations, was found Airworthy and was returned to service.

DATE: 4/15/2015

SIGNED:

Richard A. Barnhart II, IA 3124994AP

Work Order: 3831-03-2015

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4-15-15 Hobbs 1091.3

SR-20 N811WM

Remove STEC 55 s/w 1650 L/G autopilot. For Repair.
Placard panel 'AP inop'

LANCASTER AVIONICS INC

CRS # LN7R261N

James [Signature]

TODAYS
DATE

TOTAL
TIME IN
SERVICE

Description of Insp
Entries must be endorsed
Technician or Repair Fa

1. Approving Civil Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: 1910-03-2015-7	
4. Organization Name and Address: Cirrus Design Factory Service Center, 4961 Airport Road, Duluth, MN 55811 (CRS# YD5R855Y)					5. Work Order/Contract/Invoice Number: 1910-03-2015	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:	
7	Roll Trim Motor Assy	12546-0035	1	H1508/1238	OVERHAUL	
12. Remarks: Repaired as Necessary and Inspected/Tested Roll Trim Motor per Roll Trim Motor / Abbreviated Maintenance Manual Doc. 19949-001 Rev. A Dated February 2011 and Roll Trim Motor Assembly Complete Repair and Overhaul Traveler CDFS Form 104 Revision 12. A complete description of work performed is on file at the above referenced organization under the repair order and system tracking reference number indicated in blocks 2 and 5. Article is Approved for Return in Service. This Certifies that the work specified in block 11/12 was carried out in accordance with EASA 145 and in respect to that work the aircraft component is considered ready for release to service under EASA Approval Certificate Number EASA.145.5632 and Cirrus Design Factory Service Center CRS# YD5R855Y. An Airworthiness Directive may apply to the article(s) described herein. The user/installer is responsible for ensuring complete compliance with any applicable Airworthiness Directives. Airworthiness Approval-Article. This is Not an Export Approval.						
13a. Certifies the items identified above were manufactured in conformity ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 12.			13b. ☒ Part 43.9 Return to Service ☐ Other regulation specified in Block 12 Unless otherwise specified in Block 12, the work identified in Block 11 and specified in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service.			
13b. Authorized Signature:		13c. Approval Authority:		14. Approved Signature:		14e. Approval Certificate No.: YD5R855Y
13d. Name (Typed or Printed):		13e. Date (dd/mm/yyyy):		14. Name (Typed or Printed): JAMES CHRISMAN		14e. Date (dd/mm/yyyy): 21/MAR/2015
User/Installer Responsibilities						
It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts a rebuilt engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1. Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.						

YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				

Reinstalled repaired SRCS5 Hp
 updated Aspen Software to 27.2 on
 SN 8873. And located #26PS Antenna.

LANCASTER AVIONICS INC
 LANCASTER AIRPORT
 LITITZ, PA 17543

DATE 6-5-2015

CERTIFICATE NO. LN7R261N

SIGNED [Signature]

H6555-1102.1

YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				7-15-15 NB11WM CIRRUS HOBBS = 1119.2 REPLACED BACK UP BATTERY P/N 409-0003-001 OF ASPEN EFD-1000 P/N 910-00001-001 S/N 9973. ALL WORK WAS ACCOMPLISHED I.A.W. ASPEN I.C.A. INSTRUCTIONS DOCUMENT # 900-00012-001 REV.T SECTION II. 30 MINUTE OPERATION TEST PASSED. RECHARGED NEW BATTERY TO 99%. LANCASTER AVIONICS INC LANCASTER AIRPORT LITITZ, PA 17543 DATE <u>7-15-15</u> CERTIFICATE NO. LN7R261N SIGNED <u>Richard A. Staller</u> END

DATE _____

Number of
cific entries.)

YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				
8-7-15	1121.5			UPGRADE ADPEN EFD-1000 PFD #N9973 SW. to 2.8 version SW IAW SB.2015-1 and add AOA IAW TN 2015-01 and add SV IAW TN 2011-10 and complete all Ground Configurations. REF WLO 20156 LANCASTER AVIONICS INC LANCASTER AIRPORT LITITZ, PA 17543 DATE <u>8-7-15</u> CERTIFICATE NO. LN7R261N SIGNED <u>James Good</u>
8-7-15	1122.6			Complete Flight calibration of ADPEN AOA IAW install manual Revision BC Appendix K. All calib. steps passed PIC: #N9973 <u>James Good</u> PMA/REP/Ins/Amr LANCASTER AVIONICS INC CRS # LN7R261N <u>James Good</u>

Airworthiness Directive Compliance Record

AIRCRAFT RECORDS - DO NOT DESTROY

airframe

Company AVIATION RESOURCES, INC. DBA - VIRGINIA AVIATION
Manufacturer CIRRUS DESIGN CORPORATION
Model SR20
Tail # N811WM
Serial # 1042
Current Time 986.0
Total Time 986.0
A/C Cert. Date

***08-11-18 07/07/08 ENGINE EXHAUST/HEAT EXCHANGER/**

Method of Compliance By Pressure check

SB # SB2X-78-07 R1

Date 07/23/2013 986.0 Hobbs

Next Due 07/2014 1086.0 Hobbs

Notes

Signature

Cert. # RSUR804H

Prepared by

Date

7/23/13



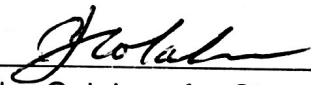
SIGNATURE
TECHNICAIR
Aircraft Maintenance
A BBA Aviation company

330 Aviation Way
Frederick, MD 21701
301.662.8156

Model: Cirrus SR20
S/N: 1042
SO#: A05-16-13703

Date: May 12, 2016
Reg No. N811WM
Hobbs: 1166.1

Complied with Aspen Instructions for Continued Airworthiness document # 900-00012-001 Rev W, for the EFD-1000.
Complied with Garmin Instructions for Continued Airworthiness document # 190-00356-65 Rev D, for the GNS-430W's.
Removed the Roll Trim Cartridge and repacked the cartridge with new grease in accordance with Cirrus Aircraft maintenance manual P/n 12137-001 section 27-10.


C. John Colaluca for Signature TECHNICAIR

CRS LC1R291K

MAKE: Cirrus
MODEL: SR20
S/N: 1042
REG. NO: N811WM
WORK ORDER:
4854-11-2016

ADVANCED Fly Advanced
Repair Station No. 5T2R901C
530 Airport Rd.
Lititz, PA 17543
Phone: 717-735-5179

DATE: 3/20/2017
A/C TSN: 1223.8
HOBBS: 1223.8

Airframe Entries

Removed and replaced the R/H flap, installed S/N 1814, re-rigged the flap system.... Removed and replaced the R/H MLG wheel pant.... Sanded, primed and painted the L/H elevator tip.

Maintenance Release

The aircraft and/or component(s) on N811WM was repaired and inspected in accordance with the current rules and regulations of Title 14 of the Code of Federal Regulations, was found Airworthy and was returned to service.

DATE: 3/20/2017

SIGNED:

Joel A. Glover
Certified Repair Station No. 5T2R901C

Work Order: 4854-11-2016

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YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				

LANCASTER AVIONICS, INC. 500-U AIRPORT ROAD LITITZ, PA 17543 CRS# LN7R261N
 LOG ID# 4855 16-June-2017 WO# 22097 HOBBS 1230.7
 N811WM S/N 1042 CIRRUS DESIGN CORP. SR20

Pg 1

**** ITEM # 22097-2 ADJUST STANDBY ALTIMETER ****

DISCREPANCY: ALTIMETER HAS -30FT TO -40FT ERRORS WHICH EXCEED ALLOWABLE TOLERANCE.

Model: 5934D-3 Part#: 5934D-3A.249H Serial#: 410929

ACTION: ADJUSTED BAROMETRIC CORRECTION SCALE TO ELLIMINATE ALTITUDE ERRORS. UNIT MEETS CERTIFICATION SPECS WITHIN ALLOWABLE TOLERANCE.

**** ITEM # 22097-3 UPDATE GTX330ES SOFTWARE ****

DISCREPANCY: UPDATE SOFTWARE.

Model: GTX330ES Part#: 011-00455-60 Serial#: 84109252

ACTION: UPDATED SOFTWARE FROM V7.04 TO V8.02 I.A.W. GARMIN SERVICE BULLETIN 1610, REV. B. NO CHANGE TO AIRCRAFT FLIGHT MANUAL SUPPLEMENT REQUIRED.

**** ITEM # 22097-4 RERPAIR AIRSPEED INDICATOR - WARRANTY ****

DISCREPANCY: TRUE AIRSPEED INDICATOR DAMAGED WHILE PERFORMING 2YR IFR CERTIFICATION - READS 7 - 10 KTS HIGH.

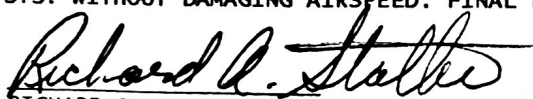
Model: EA5175 Part#: EA5175-25PTL-CIR Serial#: T39083B

ACTION: 06/07/17 - REMOVED AIRSPEED FROM AIRCRAFT AND SENT UNIT TO MID-CONTINENT INST. FOR REPAIR. 06/16/17 - REINSTALLED REPAIRED AIRSPEED IN AIRCRAFT. COPY OF SERVICE REPORT PROVIDED. FINAL CHECKS GOOD.

**** ITEM # 22097-5 REPAIR STATIC SYSTEM ****

DISCREPANCY: REPLUMB STATIC SYSTEM TO PREVENT FURTHER PROBLEMS WITH TRUE AIRSPEED WHEN PERFORMING 2R MO. CHECK.

ACTION: REMOVED A REDUNDANT STATIC LINE AND INSTALLED A 'T' FITTING TO ALLOW PLUMBING INTO STATIC SYS. WITHOUT DAMAGING AIRSPEED. FINAL LEAK CHECK ANALYSIS PASSES WITHIN ALLOWABLE TOLERANCE.


 RICHARD STATLER

YEAR: DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alter Entries must be endorsed with Name, Rating and Certificate Number Technician or Repair Facility. (See back pages for other specific e
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CIRRV5 \$R20 NB11WM HOBBS = 1230.4

LANCASTER AVIONICS INC. CRS # LN7R261N

I CERTIFY THAT THE ALTIMETER, ENCODER AND
STATIC SYSTEM TESTS REQUIRED BY FAR 91.411
HAVE BEEN PERFORMED I/A/W FAR 43 APPENDIX E

UNIT	TYPE	TESTED TO
#1 ALTIMETER	ASPEN	18,000'
#2 ALTIMETER	UNITED	18,000'
ENCODER (S)	A.C.K	18,000'
STATIC SYSTEM TEST DATE		6-6-17
SIGN <u>Richard H. Staller</u>		DATE 6-6-17

LANCASTER AVIONICS INC

CRS # LN7R261N

CERTIFY THAT THE TRANSPONDER (S)
TEST REQUIRED BY FAR 91.413 HAS BEEN
PERFORMED I/A/W FAR 43 APPENDIX F

UNIT	TYPE
#1 TRANSP	GTX 330 ES
#2 TRANSP	N/A
SIGN <u>Richard H. Staller</u>	
DATE 6-6-17	

RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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MAKE: Cirrus
MODEL: SR20
S/N: 1042
REG. NO: N811WM
WORK ORDER:
5161-05-2017

ADVANCED Fly Advanced

Repair Station No. 5T2RS01C
530 Airport Rd.
Lititz, PA 17543
Phone: 717-735-5179

DATE: 6/19/2017
A/C TSN. 1230.3
HOBBS: 1230.3

Airframe Entries

Annual Airframe Inspection completed IAW FAR 91.409 and the requirements outlined in FAR 43 App. D. with reference to the Cirrus AMM check list ch 5-20. Performed a light check. Lubed airframe. Checked cable tensions. Serviced the gascolator. ELT inspected in accordance with FAR 91.207(d). ELT batteries due 6/2019. All AD's current thru 2017-12.... C/W AD 08-11-18 Heat Exchanger Inspection. No defects noted.... C/W SB 2X-27-17 Solid State Flap Relay... C/W SB 2X-32-18 R4 NLG upper gusset plate inspection. No defects noted.... C/W SB 2X-52-08 R2 Catcher/Diverter and Gas Strut Rod End Replacement.... Removed and replaced the ELT battery. Next due 6/2019... Removed and replaced the AI emergency back up batteries.... Removed and replaced the vac filter and garter filters.... C/W Airborne SI. 39a. No defects noted.... Removed and replaced the clock battery.... Removed and replaced the vacuum pump, installed 215CC S/N OBRZ05.... Removed and replaced both cabin door strut grommets.... Removed and replaced the CAPS safety pin.... Re-torqued the empennage rudder pulley bolts.... Torqued the engine mount to firewall bolts.... Removed and replaced the NLG rebound bumpers.... Re-bonded the R/H MLG mid strut fairing anchor.... Dressed out a chafe in the R/H MLG strut, and applied resin to seal the area.... Removed and replaced the R/H brake linings.... Re-sealed the parking brake valve... Re-sealed the pilots L/H brake master cylinder and bled the brake system.

I certify that this AIRFRAME has been inspected IAW an Annual inspection and was found to be in Airworthy condition.

DATE: 6/19/2017

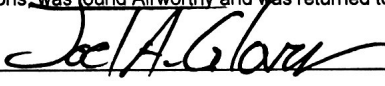
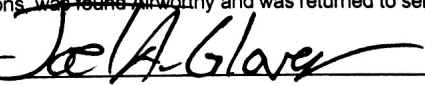
SIGNED:

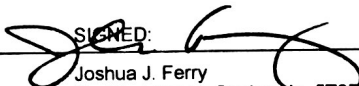
Joel A. Glover

Certified Repair Station No. 5T2RS01C

Work Order: 5161-05-2017

Printed by EBis 3 (datcomedia.com)

YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				
	MAKE: Cirrus MODEL: SR20 S/N: 1042 REG. NO: N811WM WORK ORDER: 5534-12-2017	ADVANCED Fly Advanced Repair Station No. 5T2R901C 530 Airport Rd. Littitz, PA 17543 Phone: 717-735-5179	DATE: 12/13/2017 A/C TSN: 1259.9 HOBBS: 1259.9	
	Airframe Entries			
	Sanded, primed and painted the L/H flap accordingly IAW the CMM. Installed new *NO STEP* placard and chafe tape as required.			
	Maintenance Release			
	The aircraft and/or component(s) on N811WM was repaired and inspected in accordance with the current rules and regulations of Title 14 of the Code of Federal Regulations, was found Airworthy and was returned to service.			
	DATE: 12/13/2017	SIGNED: 	Work Order: 5534-12-2017	
	Joel A. Glover Certified Repair Station No. 5T2R901C		Printed by EBis 3 (datcomedia.com)	
	MAKE: Cirrus MODEL: SR20 S/N: 1042 REG. NO: N811WM WORK ORDER: 5571-01-2018	ADVANCED Fly Advanced Repair Station No. 5T2R901C 530 Airport Rd. Littitz, PA 17543 Phone: 717-735-5179	DATE: 3/15/2018 A/C TSN: 1267.4 HOBBS: 1267.4	
	Airframe Entries			
	SB 2X-71-04 R5 Winterization Kit installation			
	Maintenance Release			
	The aircraft and/or component(s) on N811WM was repaired and inspected in accordance with the current rules and regulations of Title 14 of the Code of Federal Regulations, was found Airworthy and was returned to service.			
	DATE: 3/15/2018	SIGNED: 	Work Order: 5571-01-2018	
	Joel A. Glover Certified Repair Station No. 5T2R901C		Printed by EBis 3 (datcomedia.com)	

YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				
			MAKE: Cirrus MODEL: SR20 S/N: 1042 REG. NO: N811WM WORK ORDER: 6485-04-2019	ADVANCED Fly Advanced Repair Station No. 5T2R901C 530 Airport Rd. Lititz, PA 17543 Phone: 717-735-5179
				DATE: 4/23/2019 A/C TSN: 1300.2 HOBBS: 1300.2
				Airframe Entries Bled aircraft braking system IAW Cirrus AMM.... Properly torqued the nose landing gear axle to specs.
				Maintenance Release The aircraft and/or component(s) on N811WM was repaired and inspected in accordance with the current rules and regulations of Title 14 of the Code of Federal Regulations, was found Airworthy and was returned to service.
			DATE: 4/23/2019	SIGNED:  Joshua J. Ferry Certified Repair Station No. 5T2R901C
				Work Order: 6485-04-2019 Printed by EBis 3 (datcomedia.com)

LANCASTER AVIONICS, INC. 500-U AIRPORT ROAD LITITZ, PA 17543 CRS# LN7R261N
 LOG ID# 5956 17-July-2019 WO# 24363/1 HOBBS 1312.2
 N811WM S/N 1042 CIRRUS DESIGN CORP. SR20

Pg 1 / 1

**** ITEM # 24363-1 REPAIR ASPEN EFD1000 ****
 DISCREPANCY: REPLACE BACKUP BATTERY.
 Model: EFD1000 Part#: 910-00001-001 Serial#: 9973
 ACTION: REMOVED AND REPLACED BACKUP BATTERY I.A.W. ASPEN INSTRUCTIONS FOR CONTINUED AIRWORTHINESS,
 DOCUMENT# 90000012-001T. FINAL CHECKS GOOD.



KYLE REED

24 MONTH ALTIMETER & TRANSPONDER CERTIFICATION

ADVANCED

530 Airport Rd.
Lititz, PA 17543
717-735-5179
CRS# 672R901C

Aircraft Registration: N811WM
Aircraft Model: A30
Aircraft S/N: 1042
Work Order: 6604
Pressure test unit S/N: 86692
ATC test unit S/N: 1000455428
Encoder P/N: A30
Encoder S/N: 170633

#1 ADC / Altimeter P/N: 910-0081-01
#1 ADC / Altimeter S/N: 9973
#2 ADC / Altimeter P/N: 593403
#2 ADC / Altimeter S/N: 410929
#3 ADC / Altimeter P/N: 593403
#3 ADC / Altimeter S/N: 410929
Transponder P/N: 01-00450
Transponder S/N: 541C 9352

Appendix E to Part 43—Altimeter System Test and Inspection

STATIC SYSTEM (tick one)		PITOT SYSTEM (tick one)		MISC (tick one)	
Free of Moisture	Leak Check	Free of Moisture	Leak Check	Pitot Heat Function	Altimeter Static
Pass	Pass	Pass	Pass	Pass	Pass

(i) SCALE ERROR				(ii) HYSTERESIS				(iii) AFTER EFFECT (± 30 ft)			
Altitude (feet)	Tolerance (feet)	#1	#2	Test Points (feet)	Test Box	#1	#2	Unit tested	Initial	After	Change
100	± 20	-1005	-1015	4000	4000	4000	4000	0	0	0	0
500	± 20	-15	580	4000	4000	4000	4000	-15	-10	5	5
1000	± 20	990	1010	4000	4000	4000	4000	15	20	5	5
1500	± 25	1490	1500	4000	4000	4000	4000				
2000	± 30	1990	2010	4000	4000	4000	4000				
2500	± 35	2490	2510	4000	4000	4000	4000				
3000	± 40	2990	3010	4000	4000	4000	4000				
3500	± 45	3490	3510	4000	4000	4000	4000				
4000	± 50	3990	4010	4000	4000	4000	4000				
4500	± 55	4490	4510	4000	4000	4000	4000				
5000	± 60	4990	5010	4000	4000	4000	4000				
5500	± 65	5490	5510	4000	4000	4000	4000				
6000	± 70	5990	6010	4000	4000	4000	4000				
6500	± 75	6490	6510	4000	4000	4000	4000				
7000	± 80	6990	7010	4000	4000	4000	4000				
7500	± 85	7490	7510	4000	4000	4000	4000				
8000	± 90	7990	8010	4000	4000	4000	4000				
8500	± 95	8490	8510	4000	4000	4000	4000				
9000	± 100	8990	9010	4000	4000	4000	4000				
9500	± 105	9490	9510	4000	4000	4000	4000				
10000	± 110	9990	10010	4000	4000	4000	4000				
10500	± 115	10490	10510	4000	4000	4000	4000				
11000	± 120	10990	11010	4000	4000	4000	4000				
11500	± 125	11490	11510	4000	4000	4000	4000				
12000	± 130	11990	12010	4000	4000	4000	4000				
12500	± 135	12490	12510	4000	4000	4000	4000				
13000	± 140	12990	13010	4000	4000	4000	4000				
13500	± 145	13490	13510	4000	4000	4000	4000				
14000	± 150	13990	14010	4000	4000	4000	4000				
14500	± 155	14490	14510	4000	4000	4000	4000				

(iv) FRICTION (Altimeter only)				(v) BAROMETRIC SCALE ERROR (± 25)			
Altitude (feet)	Tolerance (feet)	Altitude (feet)	Altitude Change	Pressure Setting	Calibrated Difference	Altimeter Reading	Actual Difference
1000	± 70	1000	10	29.5	1.340	-1730	7
2000	± 70	2000	10	29.5	863	-1330	10
3000	± 70	3000	10	29.5	302	-830	13
4000	± 70	4000	10	29.5	102	-400	18
5000	± 70	5000	10	29.5	0	15	10
6000	± 80	6000	20	30.5	+531	530	15
7000	± 80	7000	20	30.9	+903	910	17
8000	± 100	8000	20	30.9	+903	910	17
9000	± 120	9000	20	30.9	+903	910	17

Automatic Pressure Altitude Reporting

ENCODER CALIBRATION (if required)

Transponder change point	Primary Altimeter Reading	Pass/Fail (±125 ft)
1000 - 1000	2990	Pass
1000 - 1000	18100	Pass

All tests of Appendix E to Part 43, that are required for this system, are found to be within the specified limits.

Signature: [Signature] Date: 7/12/19

Signature: [Signature] Date: 7/12/19

Appendix F to Part 43—ATC Transponder Tests and Inspections

91.413 MODE S TRANSPONDER CERTIFICATION		91.413 MODE C TRANSPONDER CERTIFICATION	
Test	Result	Test	Result
1. RADIO REPLY FREQUENCY: 1090 ± 1 MHz	1090.24	1. RADIO REPLY FREQUENCY: 1090 ± 1 MHz	1090.24
2. SUPPRESSION REPLY: < 1% when P0dB = P0dB	0%	2. SUPPRESSION REPLY: < 1% when P0dB = P0dB	0%
3. SUPPRESSION REPLY: < 50% when P0dB is 9dB less than P1dB	100%	3. SUPPRESSION REPLY: < 50% when P0dB is 9dB less than P1dB	100%
4. RECEIVER SENSITIVITY: MTL: 13.44 dBm (4.7dB isolated signal)	75.8	4. RECEIVER SENSITIVITY: MTL: 13.44 dBm (4.7dB isolated signal)	75.8
5. RECEIVER SENSITIVITY: MODE A/C DIFFERENCE: < 1dB	4.68W	5. RECEIVER SENSITIVITY: MODE A/C DIFFERENCE: < 1dB	4.68W
6. RF PEAK POWER OUTPUT: 125W - OUTPUT: 500W	Pass	6. RF PEAK POWER OUTPUT: 125W - OUTPUT: 500W	Pass
7. MODE S ADDRESS: verify address is being transmitted	Pass	7. MODE S ADDRESS: verify address is being transmitted	Pass
8. MODE S ADDRESS: verify reply has correct address and capability	Pass	8. MODE S ADDRESS: verify reply has correct address and capability	Pass
9. MODE S ADDRESS: verify address can produce no reply	Pass	9. MODE S ADDRESS: verify address can produce no reply	Pass
10. QUINCY: verify mode S generates correct squitter (1 per second)	Pass	10. QUINCY: verify mode S generates correct squitter (1 per second)	Pass

All tests of Appendix F to Part 43, that are required for this system, are found to be within the specified limits.

Signature: [Signature] Date: 7/12/19

Signature: [Signature] Date: 7/12/19

ADVANCED

530 Airport Rd.
Lititz, PA 17543
CRS# 672R901C

Aircraft Reg:	N811WM
Work Order:	6604
Altitude Tested to:	18,000
Date Tested:	7/12/2019

C transponder tests and inspections required by FAR 91.413, and data correspondence by reported pressure altitude data and the pilot's altitude reference required by FAR 91.217 within the specified limits of CFR 43 appendices F, up to the specified altitude. Next certification is due 07/31/2021, or when otherwise required.

Make: **GARMIN** Model: **GTX-330ES** S/N: **84109252**
 Make: **ACK** Model: **A-30** S/N: **120633**
 Make: **ASPEN** Model: **IFD-1000** S/N: **9973**
 Make: **United** Model: **5934D-3** S/N: **410929**

Signature: [Signature] Date: 12-Jul-19

Revision Number: Original Revision Date: 9/22/2016

ADVANCED

530 Airport Rd.
Lititz, PA 17543
CRS# 672R901C

Aircraft Reg:	N811WM
Work Order:	6604
Altitude Tested to:	18,000
Date Tested:	7/12/2019

Altimeter system and altitude reporting equipment tests and inspections required by FAR 91.411 and 91.217 have been found to be within the specified limits of CFR 43 appendices E, up to the specified altitude. Next certification is due 07/31/2021, or when otherwise required.

Make: **GARMIN** Model: **GTX-330ES** S/N: **84109252**
 Make: **ACK** Model: **A-30** S/N: **120633**
 Make: **ASPEN** Model: **IFD-1000** S/N: **9973**
 Make: **United** Model: **5934D-3** S/N: **410929**

Signature: [Signature] Date: 12-Jul-19

Revision Number: Original Revision Date: 9/22/2016

YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				
	MAKE: Cirrus MODEL: SR20 S/N: 1042 REG. NO: N811WM WORK ORDER: 6604-06-2019	ADVANCED Fly Advanced Repair Station No. 5T2R901C 530 Airport Rd. Lititz, PA 17543 Phone: 717-735-5179	DATE: 7/19/2019 A/C TSN: 1311.9 HOBBBS: 1311.9	
	Airframe Entries			
	Annual Airframe Inspection completed IAW FAR 91.409 and the requirements outlined in FAR 43 App. D. with reference to the Cirrus AMM check list ch 5-20. Performed a light check. Lubed airframe. Checked cable tensions. Serviced the gascolator. Removed and replaced the induction air filter with P/N: BA-24. Complied with Battery #1 capacity test, battery passed. ELT inspected in accordance with FAR 91.207(d). ELT batteries due 07-2021. All AD's current thru 2019-14.... C/W AD 2008-11-18 Exhaust Heat Exchanger Inspection IAW SB 2X-78-07R1, no defects noted at this time. Next due Hobbs: 1411.9... C/W SB 2X-32-18R4 Nose Landing Gear Upper Gusset Plate and Attach Point Inspection.... Completed a 24 Month altimeter & transponder certification. See log book entries for further details dated 07-12-19.... Removed and replaced the Turn Coordinator Battery, next due 07-2020.... Removed and replaced the vacuum regulator filter with P/N: ARB3-5-1.... Removed and replaced the Instrument Air Filter with P/N: AAD9-18-1.... Removed and replaced the ELT Batteries, next due 07-2021.... Removed and replaced the left nose landing gear to firewall bushings, spacer and attaching hardware as required.... Removed and replaced the cockpit portable fire extinguisher with P/N: A344T, S/N: F60438253.... Removed and replaced the environmental HVAC Control Linkage.... Removed and replaced the #2 Alternator with overhauled unit P/N: ES-4029R, S/N: H-K111358. Alternator installed with new gasket.... Removed and replaced the right inboard aileron hinge assembly.... Removed and replaced the left inboard aileron hinge assembly.... Removed and replaced the pitch trim spring cartridge with P/N: 15650-002.... Removed and replaced the nose landing gear spindle stud and cup bearings, assembled using new thrust washer and locking nut, adjusted tension as required per Cirrus AMM.			
	I certify that this AIRFRAME has been inspected IAW an Annual Inspection and was found to be in Airworthy condition.			
	DATE: 7/19/2019	 SIGNED Joshua J. Ferry Certified Repair Station No. 5T2R901C		Work Order: 6604-06-2019 Printed by EBis 3 (datcomedia.com)

YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				
	ADVANCED Fly Advanced MAKE: Cirrus MODEL: SR20 S/N: 1042 REG. NO: N811WM WORK ORDER: 6968-12-2019 Repair Station No. 5T2R901C 530 Airport Rd. Lititz, PA 17543 Phone: 717-735-5179 DATE: 7/9/2020 A/C TSN: 1328.9 HOBBS: 1328.9			
	Airframe Entries Annual Airframe Inspection completed IAW FAR 91.409 and the requirements outlined in FAR 43 App. D. with reference to the Cirrus AMM check list ch 5-20. Performed a light check. Lubed airframe. Checked cable tensions. Serviced the gascolator. Removed and replaced the induction air filter with P/N: BA-24. Complied with Battery #1 capacity test, battery passed. ELT inspected in accordance with FAR 91.207(d). ELT batteries due 07-2021. All AD's current thru 2020-14.... C/W AD 2008-11-18 Exhaust Heat Exchanger Inspection IAW SB 2X-78-07R1, no defects noted at this time. Next due Hobbs: 1428.9... C/W SB 2X-32-18R4 NLG Upper Gusset Plate and Attach Point Inspection, no defects noted.... C/W SB 2X-95-13 CAPS Strap Inspection and Grommet Installation... C/W SB 2X-95-20R1 CAPS rocket motor assembly replacement. Removed and replaced the CAPS Parachute and Rocket Assembly. Installed Parachute S/N: 4021R1, next replacement due 04-28-2030. Installed rocket motor S/N: 3941, next replacement due 06-30-2030. Installed new frangible link. Installed the new breakaway panel. Completed body work with body filler, primed and painted as required. Weight and Balance revision inserted into POH... C/W SB 2X-95-24R2 CAPS Rocket Shelf Ground Wire... Removed and replaced the turn coordinator battery, next due 07-2021... Removed and replaced the vacuum regulator filter with P/N: ARB3-5-1. Removed and replaced the Instrument Air Filter with P/N: AAD9-18-1.... Removed and replaced the Davtron clock battery, next due 07-2022... Properly secured the prop governor control cable clamp... Adjusted the aileron stops for proper travel IAW Cirrus AMM 27-10... Secured the firewall cannon plug below the MCU as required.... Removed and replaced the left and right cabin entry door strut grommets.... Properly secured the Hobbs meter.... Installed new velcro to the CAPS handle cover.... Properly connected and secured the fuel selector housing drain tube... Removed and re-installed the rudder interconnect aft cable clamp in proper orientation.... Repaired center console lower right hand trim.... Removed and replaced the aft baggage compartment door seal.			
	I certify that this AIRFRAME has been inspected IAW an Annual Inspection and was found to be in Airworthy condition.			
	DATE: 7/9/2020 SIGNED:  Joshua J. Ferry Certified Repair Station No. 5T2R901C Work Order: 6968-12-2019 Printed by EBis 3 (datcomedia.com)			

ORDING	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
		MAKE: Cirrus MODEL: SR20 S/N: 1042 REG. NO: N811WM WORK ORDER: 7964-03-2021	 ADVANCED Fly Advanced Repair Station No. 5T2R901C 530 Airport Rd. Lititz, PA 17543 Phone: 717-735-5179 DATE: 4/9/2021 A/C TSN: 1349 HOBBS: 1349 Airframe Entries Removed and replaced the CAPS Reefing Line Cutters with new P/N: 25347-002, S/Ns: 18909 & 18956, next due replacement 01-2027.... Bled brakes IAW Cirrus AMM. Maintenance Release The aircraft and/or component(s) on N811WM was repaired and inspected in accordance with the current rules and regulations of Title 14 of the Code of Federal Regulations, was found Airworthy and was returned to service. DATE: 4/9/2021  SIGNED Joshua J. Ferry Certified Repair Station No. 5T2R901C Work Order: 7964-03-2021 Printed by EBis 3 (datcomedia.com)

flyADVANCED

530 Airport rd Lititz PA 17543
CRS# 5T2R901C

Aircraft Reg:	N811WM
Work Order:	8242
Altitude Tested to:	18,000
Date Tested:	9/1/2021

I certify that the ATC transponder tests and inspections required by FAR 91.413, and data correspondence between automatically reported pressure altitude data and the pilot's altitude reference required by FAR 91.217 have been found to be within the specified limits of CFR 43 appendices F, up to the specified altitude. Next certification is due 09/30/2023, or when otherwise required.

Transponder: Make: Garmin Model: GTX-330ES S/N: 84109252
Encoder: Make: ACK Model: A-30 S/N: 120633
PFD: Make: Aspen Model: IFD-1000 S/N: 9973
Altimeter: Make: United Model: 5934D-3 S/N: 410929

Joe Vigilante

Signature

1-Sep-21

Date

Form Number: F-117

Revision Number: Original

Revision Date: 9/22/201

flyADVANCED

530 Airport rd Lititz PA 17543
CRS# 5T2R901C

Aircraft Reg:	N811WM
Work Order:	8242
Altitude Tested to:	18,000
Date Tested:	9/1/2021

I certify that the altimeter system and altitude reporting equipment tests and inspections required by FAR 91.411 and data correspondence between automatically reported pressure altitude data and the pilot's altitude reference required by FAR 91.217 have been found to be within the specified limits of CFR 43 appendices E, up to the specified altitude. Next certification is due 09/30/2023, or when otherwise required.

Transponder: Make: Garmin Model: GTX-330ES S/N: 84109252
Encoder: Make: ACK Model: A-30 S/N: 120633
PFD: Make: Aspen Model: IFD-1000 S/N: 9973
Altimeter: Make: United Model: 5934D-3 S/N: 410929

Joe Vigilante

Signature

1-Sep-21

Date

Form Number: F-118

Revision Number: Original

Revision Date: 9/22/2016

24 MONTH ALTIMETER & TRANSPONDER CERTIFICATION

flyADVANCED

530 AIRPORT ROAD
LITITZ, PA 17543
717-735-5179

CRS# 5T2R901C

N811WM	8242	84109252	120633	9973	410929
Altitude	Pressure	Altitude	Pressure	Altitude	Pressure
1000	1000	1000	1000	1000	1000
2000	2000	2000	2000	2000	2000
3000	3000	3000	3000	3000	3000
4000	4000	4000	4000	4000	4000
5000	5000	5000	5000	5000	5000
6000	6000	6000	6000	6000	6000
7000	7000	7000	7000	7000	7000
8000	8000	8000	8000	8000	8000
9000	9000	9000	9000	9000	9000
10000	10000	10000	10000	10000	10000
11000	11000	11000	11000	11000	11000
12000	12000	12000	12000	12000	12000
13000	13000	13000	13000	13000	13000
14000	14000	14000	14000	14000	14000
15000	15000	15000	15000	15000	15000
16000	16000	16000	16000	16000	16000
17000	17000	17000	17000	17000	17000
18000	18000	18000	18000	18000	18000

Appendix E to Part 43—Altimeter System Test and Inspection

(i) STATIC PRESSURE SYSTEM

STATIC SYSTEM (Circle one) ☒ **Free of Moisture** ☐ **Leak Check** ☐

PITOT SYSTEM (Circle one) ☒ **Free of Moisture** ☐ **Leak Check** ☐

MISC (Circle one) ☒ **Pitot Heat Function** ☐ **Alternate Static** ☐

(ii) ALTIMETER

(I) SCALE ERROR

Altitude (feet)	Tolerance (feet)	#1	#2	#3
1000	±20	1010	985	
2000	±20	2010	1985	
3000	±20	3010	2985	
4000	±20	4010	3985	
5000	±20	5010	4985	
6000	±20	6010	5985	
7000	±20	7010	6985	
8000	±20	8010	7985	
9000	±20	9010	8985	
10000	±20	10010	9985	
11000	±20	11010	10985	
12000	±20	12010	11985	
13000	±20	13010	12985	
14000	±20	14010	13985	
15000	±20	15010	14985	
16000	±20	16010	15985	
17000	±20	17010	16985	
18000	±20	18010	17985	

(II) HYSTERESIS

Test Point	Test Box	#1	#2	#3
9000	9000	9000	9000	
9000	9000	8990	8990	
9000	9000	9010	9010	
9000	9000	9000	9000	
7200	7200	7200	7200	
7200	7200	7190	7190	
7200	7200	7210	7210	
7200	7200	7200	7200	

(III) AFTER EFFECT (±30 ft)

Unit tested	Initial	After	Change
#1	0	0	0
#2	15	15	0
#3	0	0	0

(IV) CASE LEAK (Sea level 100 ft @ 18,000 ft)

Pass/Fail	#1	#2	#3
Pass	15	15	15
Fail			

(V) BAROMETRIC SCALE ERROR (±25)

Pressure Setting	Calibrated Difference	Altimeter Reading	Actual Difference	Altimeter Reading	Actual Difference
1000	0	1000	0	1000	0
2000	0	2000	0	2000	0
3000	0	3000	0	3000	0
4000	0	4000	0	4000	0
5000	0	5000	0	5000	0
6000	0	6000	0	6000	0
7000	0	7000	0	7000	0
8000	0	8000	0	8000	0
9000	0	9000	0	9000	0
10000	0	10000	0	10000	0
11000	0	11000	0	11000	0
12000	0	12000	0	12000	0
13000	0	13000	0	13000	0
14000	0	14000	0	14000	0
15000	0	15000	0	15000	0
16000	0	16000	0	16000	0
17000	0	17000	0	17000	0
18000	0	18000	0	18000	0

(c) Automatic Pressure Altitude Reporting

ENCODER CALIBRATION (if required)

Transponder change point	Primary Altimeter Reading	Pass/Fail (±125 ft)
2000	2000	Pass
17000	17000	Pass
24000	24000	Pass
29000	29000	Pass
30000	30000	Pass

All tests of Appendix E to Part 43 that are required for this system are found to be within the specified limits.

09-01-21
09-01-21

Appendix F to Part 43—ATC Transponder Tests and Inspections

91.413 MODE S TRANSPONDER CERTIFICATION

Test	Result
1. RADIO REPLY FREQUENCY 1080 ± 1 MHz	Pass
2. SUPPRESSION REPLY > 1% when P2B is P1B	Pass
3. SUPPRESSION REPLY > 80% when P2B is P1B and P1B is P2B	Pass
4. RECEIVER SENSITIVITY MODE S (1000 Hz)	Pass
5. MODE S ADDRESS (1000 Hz)	Pass
6. MODE S ADDRESS (1000 Hz)	Pass
7. MODE S ADDRESS (1000 Hz)	Pass
8. MODE S ADDRESS (1000 Hz)	Pass
9. MODE S ADDRESS (1000 Hz)	Pass
10. MODE S ADDRESS (1000 Hz)	Pass
11. MODE S ADDRESS (1000 Hz)	Pass
12. MODE S ADDRESS (1000 Hz)	Pass
13. MODE S ADDRESS (1000 Hz)	Pass
14. MODE S ADDRESS (1000 Hz)	Pass
15. MODE S ADDRESS (1000 Hz)	Pass
16. MODE S ADDRESS (1000 Hz)	Pass
17. MODE S ADDRESS (1000 Hz)	Pass
18. MODE S ADDRESS (1000 Hz)	Pass
19. MODE S ADDRESS (1000 Hz)	Pass
20. MODE S ADDRESS (1000 Hz)	Pass

91.413 MODE C TRANSPONDER CERTIFICATION

Test	Result
1. RADIO REPLY FREQUENCY 1080 ± 1 MHz	Pass
2. SUPPRESSION REPLY > 1% when P2B is P1B	Pass
3. SUPPRESSION REPLY > 80% when P2B is P1B and P1B is P2B	Pass
4. RECEIVER SENSITIVITY MODE C (1000 Hz)	Pass
5. MODE C ADDRESS (1000 Hz)	Pass
6. MODE C ADDRESS (1000 Hz)	Pass
7. MODE C ADDRESS (1000 Hz)	Pass
8. MODE C ADDRESS (1000 Hz)	Pass
9. MODE C ADDRESS (1000 Hz)	Pass
10. MODE C ADDRESS (1000 Hz)	Pass
11. MODE C ADDRESS (1000 Hz)	Pass
12. MODE C ADDRESS (1000 Hz)	Pass
13. MODE C ADDRESS (1000 Hz)	Pass
14. MODE C ADDRESS (1000 Hz)	Pass
15. MODE C ADDRESS (1000 Hz)	Pass
16. MODE C ADDRESS (1000 Hz)	Pass
17. MODE C ADDRESS (1000 Hz)	Pass
18. MODE C ADDRESS (1000 Hz)	Pass
19. MODE C ADDRESS (1000 Hz)	Pass
20. MODE C ADDRESS (1000 Hz)	Pass

All tests of Appendix F to Part 43 that are required for this system are found to be within the specified limits.

09-01-21
09-01-21

DATE	TACH TIME	FLIGHT	TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries)
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MAKE: Cirrus
MODEL: SR20
S/N: 1042
REG. NO: N811WM
WORK ORDER:
8242-07-2021

ADVANCED Fly Advanced
Repair Station No. 5T2R901C
530 Airport Rd.
Lititz, PA 17543
Phone: 717-735-5179

DATE: 9/10/2021
A/C TSN: 1356.8
HOBBS: 1356.8

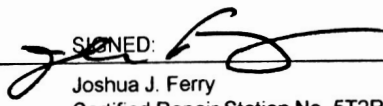
Airframe Entries

Annual Airframe Inspection completed IAW FAR 91.409 and the requirements outlined in FAR 43 App. D. with reference to the Cirrus AMM check list ch 5-20. Performed a light check. Lubed airframe. Checked cable tensions. Serviced the gascolator. Removed and replaced the induction air filter with P/N: BA-24. Complied with Battery #1 capacity test, battery failed. Removed and replaced Battery #1 with new P/N: RG24-15M, S/N: 41133056. ELT inspected in accordance with FAR 91.207(d). Removed and replaced the ELT batteries with new, recommend next replacement 09-2023. All AD's current thru release 2021-18... C/W AD 2008-11-18 Heat Exchanger Inspection IAW SB 2X-78-07R1, no defects noted. Next due Hobbs: 1456.8... AD 2019-01-02 Aspen EFD1000 Flight Display Unit Repetitive Uncommanded Reset Not Applicable by Aircraft has independent airspeed, altitude, and altitude back-up instruments installed IAW AD Instructions... AD 2020-16-08 Aspen IFD1000 Uncommanded Flight Display System Reset Not Applicable by part number 910-00001-001 installed IAW AD Instructions... C/W SB 2X-27-18R2 Rudder - Aileron Interconnect Assembly Removal... C/W SB 2X-32-18R4 NLG Upper Gusset Plate and Attach Point Inspection, no defects noted... Removed and replaced the turn coordinator batteries, next due 09-2022... Removed and replaced the vacuum regulator filter with P/N: ARB3-5-1. Removed and replaced the Instrument Air Filter with P/N: AAD9-18-1... Removed and replaced VSI cap to repair static leak during 2 year IFR Certification. Repaired pitot leak during 2 year IFR Certification by tightening fitting at the airspeed indicator. Completed a 24 Month altimeter & transponder certification. See log book entries for further details dated 09-01-21... Removed and replaced the ELT Remote RCPI battery, next due 09-2029... Removed and re-installed the glareshield assembly after sanding, primer and paint... Repaired broken wire at the glareshield lighting connector IAW Standard Practices... Re-torqued the upper rudder hinge bolt... Re-torqued the elevator control stop attaching hardware... Installed new right elevator torque tube access panel placard... Removed and re-installed the CAPS rocket with new break-away screws after re-routing of the rocket lanyard and securing the aft harness protective sheath to the aft harness bracket... Removed and replaced the battery minder (+) power wire ring terminal... Removed, re-indexed and re-installed the #2 alternator with new gasket... Adjusted the Alternator #1 drive belt tension IAW Cirrus AMM 24-30... Installed new left and right bolster panel "Grab Here" placards... Installed new left and right cowl inlet "Screws Must Be Installed" placards... Installed new right cabin entry door "Rescue" placard

I certify that this AIRFRAME has been inspected IAW an Annual Inspection and was found to be in Airworthy condition.

DATE: 9/10/2021

SIGNED:



Joshua J. Ferry
Certified Repair Station No. 5T2R901C

Work Order: 8242-07-2021

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