

AIRCRAFT LOG
AF5-1



PPG Industries, Inc.
COMMERCIAL COATINGS

PRIMER

K-36

PRIMER

COLOR

FBC 92813

COLOR

FBC 920048

COLOR

CLEAR

F3905

SR22X-23-05R1

AIRCRAFT DESCRIPTION

Cirrus Design Corp MODEL SR 22T DATE OF MFG. Nov

0637 REGISTRATION NUMBER ~~N4587E~~ N715JK

OWNER _____
ADDRESS _____
CITY, STATE, ZIP _____
OWNER _____
ADDRESS _____
CITY, STATE, ZIP _____
OWNER _____
ADDRESS _____
CITY, STATE, ZIP _____
OWNER _____
ADDRESS _____
CITY, STATE, ZIP _____

Inspection Status (Check one)

F.A.R. 91.409 ANNUAL/100 HOURS

F.A.R. 91.409 PROGRESSIVE

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

OTHER

DATE ENTERED _____

MAINTENANCE RESPONSIBILITY _____

582X-23-05R1

INSTALLED EQUIPMENT

MANUFACTURER	MODEL	SERIAL NO.
Continental Motors Inc	TS10550K	R 1009119 L
Hartzel Propeller Inc	PHC-S3YIF-IN	R NJ 812 B L



582X-22-05R1

MAJOR ALTERATIONS

DESCRIPTION OF ALTERATION

STC SA01708SE (Fixed Oxygen System) has been installed on this aircraft. Approval for installation has been granted by the STC holder via a Licensing Agreement and the FAA via the Production Certificate / Production Limitation Record. FAA Form 337 not required for this installation.



CDC

on 10/8/13

Cirrus Design Corporation Duluth, MN USA

PRODUCTION CERTIFICATE NO. 338CE

Tanis Aircraft Products

P.O. Box 117
Glenwood, MN 56334
800-443-2136
www.tanisaircraft.com



Item: ENGINE PREHEATER

Model: T\$ 02761

P/N: TS02761-115

Eligible On:

S/N: 47607

See Reverse.

SR22T-23-05R1


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
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Life Limited Parts SR22T					
PART NAME	PART NUMBER				EXPIRES
CAPS Rocket Motor	29500-004		S/N 199		10/2023
CAPS Parachute	29696-003		S/N B0214		10/2023
CAPS Reefing Line Cutters	26707-002		S/N 0507 S/N 0503		08/2019
ELT Battery Pack	452-6499		Date Installed 10-16-2013		01/2020
EMA Controller, AAIR	20902-001		S/N / to 1 Aug 13-15		09/2020
Oxygen Bottle Assembly	102N0100-1		MFG Date 07/3 ^{07/13}		07/2028
CO Detector	24660-003		S/N 10889		09/2020
Pilot Seat Inflator Assembly	20902-002		AAST 2092 S/N 20061		04/01/23
Co-Pilot Seat Inflator Assembly	20902-002		AAST 3062 S/N 10201		09/01/23

682X-22-081

THINNESS DIRECTIVE/FACTORY BULLETIN COMPLIANCE RECORD

DATE & HRS. AT COMP.	METHOD OF COMPLIANCE	TYPE OF A.D. 1 TIME/RECUR.	NEXT COMP. DATE/HRS./CYCLE	AUTHORIZED SIGNATURE CERTIFICATE NO.
11-1-13 2.8	Searched AD's through bi-weekly issue <u>2013-21</u> . All AD's are in compliance at this time.			Barry V. ji 

1380-22-0581

ALTIMETER & STATIC SYSTEM CHECKS F.A.R. 91.411

PILER	MODEL	SERIAL NO.	LOCATION	MAX. ALT.	RECHECK REQUIRED	APPROVED AGENCY
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I certify that the altimeter, static system, transponder, and altitude reporter test required by FAR's 91.411, 91.413, & 91.217 have been performed and found within the limits of FAR 43 appendices E & F and AC 43-6B.

TESTED TO 25,000 **FEET ON** 10-17-2013

Transponder: Mfg Garmin P/N 24653-002

Model: GTX-33ES S/N 89125838

ADC 1: Model GDC74A P/N 24651-001

S/N 20616078

ADC 2: Model GDC74A P/N 24651-001

S/N 20616067

Altimeter: Mfg United P/N 12731-003

S/N 501091



CDC Quality Assurance on 10/17/13

Cirrus Design Corporation Duluth, MN USA

PC# 338CF

ALTIMETER & STATIC SYSTEM CHECKS F.A.R. 91.411

DATE	MANUFACTURER	MODEL	SERIAL NO.	LOCATION	MAX. ALT.	RECHECK REQUIRED	APPROVED BY: AGENCY CERT.



Cirrus Aircraft Factory
Service Center
4961 Airport Road
Duluth, MN 55811

CRS# YD5R855Y

Aircraft Reg:	N458TC
Work Order:	17588-12-2015
Altitude Tested to:	25,000
Date Tested:	12/10/2015

Date: 12/10/15		W.O. # 17588-12-2015	
Altitude (feet)	Tolerance (feet)	ADCs / Altimeters	
		#1	#2
-1,000	± 20	-1,000	-1,000
0	± 20	-10	-10
500	± 20	490	490
1,000	± 20	990	990
1,500	± 25	1,490	1,490
2,000	± 30	1,990	1,990
3,000	± 30	2,990	2,990
4,000	± 35	3,990	3,990
6,000	± 40	5,990	5,990
8,000	± 60	7,990	7,990
10,000	± 80	9,990	9,990
12,000	± 90	11,990	11,990
14,000	± 100	13,990	13,990
16,000	± 110	15,990	15,990
18,000	± 120	17,990	17,990
20,000	± 130	19,990	19,980
22,000	± 140	21,990	21,980
25,000	± 155	24,980	24,980

I certify that the: altimeter system and altitude reporting equipment tests and inspections required by FAR 91.411, 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 FAR 43 appendices E & F and AC 43-6B, up to the specified altitude. Next certification is due 12/31/2017 or when otherwise required.


Transponder:	Make: <u>Garmin</u>	Model: <u>GTX-33ES</u>	S/N: <u>89125838</u>
ADC #1:	Make: <u>Garmin</u>	Model: <u>GDC74A</u>	S/N: <u>20616078</u>
ADC #2:	Make: <u>Garmin</u>	Model: <u>GDC74A</u>	S/N: <u>501091</u>
Altimeter:	Make: <u>United</u>	Model: <u>12731-003</u>	S/N: <u>501091</u>

Ben Hodgkins
Signature

12/10/2015
Date

SR22-23-08R1

MAINTENANCE RECORD
F.A.R. 43.9

AIRCRAFT TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED OR APPROVED DATA USED	AGENCY & CERTIFICATE NO. WORK PERFORMED/RETURNED TO SERVICE
MAKE: Cirrus MODEL: SR22T S/N: 0637 REG. NO: N458TC WORK ORDER: 15686-11-2013	 Cirrus Design Factory Service Center Repair Station No. YD5R855Y 4961 Airport Road Duluth, MN 55811 Phone: 218-788-3438	DATE: 11/5/2013 A/C TSN: 3.2 HOBBS: 5.4
Airframe Entries		
(2) Removed and Replaced gascolator drain valve, (PN 50242-001) IAW CDC SR22 AMM 28-20. Leak check satisfactory.		
I have reviewed the file on this aircraft and the accompanying discrepancy forms. The aircraft, airframe, aircraft engine, propeller or appliance identified was repaired/inspected in accordance with current requirements of the Federal Aviation Administration and is approved for return to service. Pertinent details of this work order are on file at this Certified Repair Station CRS YD5R855Y.		
DATE: 11/5/2013	SIGNED: <i>Joseph Sullivan</i>	Work Order: 15686-11-2013
Joseph Sullivan Certified Repair Station No. YD5R855Y		Printed by EBis 3 (datcomedia.com)
Empty rows for additional work entries		

DATE _____
 AIRCRAFT _____
 CIR _____
 I cert _____
 ATC _____
 report _____
 within _____
 certifi _____
 Trans _____
 ADC _____
 ADC _____
 Min _____
 CDFSC _____



Autopilots Central, Inc.
 Hangar 23, Tulsa International Airport - Tulsa, OK 74115
 P.O. Box 582108 - Tulsa, OK 74158
 (918)836-6418 - Fax (918)832-0136
 FAA CRS CM2R747K
 Logbook Entry

Sold To: Synergy Aviation LLC
 6303 N. Portland Ave. Suite 305
 Oklahoma City, OK 73112-1411

Work Order: MA13-04272
 Acct Number: (405)702-0901

Opened: 12/30/2013
 Closed: 1/02/2014

Aircraft Number:	N458TC	Type: SR22T	S/N: 0637
Total Time:	46.0	Hobbs Time:	46.0
Eng#	Type	S/N	Time Cycles
1	TSIO-550K1B	1009114	46.0
			Prop Type
			PHC-J3Y1F-IN
			Prop S/N
			NJ812B
			Prop Time
			46.0

Discrepancy: 1

Action Taken:

- Completed CMX 1st 25 hour and 50 hour inspections. Oil change only was completed on Initial 25 hours.
1. Completed Engine 100 hour inspection items.
 2. Compression readings: 1-74, 2-76, 3-72, 4-70, 5-72 & 6-70 over 80 psi. Master orifice reading was 48 psi.
 3. Removed, cleaned and visually inspected the spark plugs. Re-installed using new gaskets.
 4. Inspected and cleaned the air induction filter element.
 5. Inspected fuel injection nozzles for fuel stains, security and proper venting.
 6. Serviced the gascolator.
 7. Visually inspected fuel system for leaks.
 8. Inspected exhaust system.
 9. Visually inspected engine for leaks and loose fasteners.
 10. Verified fuel settings iaw TCM SID 97-3.
 11. Serviced the tires with nitrogen.
 12. Inspected the brakes and temperature indicators.
 13. Inspected #1 battery and connectors for general condition.

Completed CMX 50 Hour interval items:

1. Changed the oil and filter. Inspected the old filter and found it clean. Installed new filter and 8 qts of Phillips 20W50XC oil. Inspected for leaks.
2. Checked operation of the air induction alternate air flapper valve.
3. Completed inspection of cylinder drains.
4. Completed operational inspection iaw Cirrus maintenance manual chapter 5-30.

Note:

This Discrepancy is covered under warranty.

Part Number	Description	Credit	Quantity	Units	Unit Price	Extended
20W50XC	Phillips Detergent Oil		8.00	Each		\$
	This part is covered under warranty.					\$
AA48108-2	Oil Filter		1.00	Each		\$
	This part is covered under warranty.					\$
M674	Gasket		12.00	Each		\$
	This part is covered under warranty.					\$
MS29513-137	O-Ring		1.00	Each		\$
	This part is covered under warranty.					\$
NAS1523-8B	Stat-O-Seal		1.00	Each		\$
	This part is covered under warranty.					\$

Discrepancy: 2

Action Taken:

Tanis heater has not worked since new. Inspected system and found fuse was open. Checked probes and found the probe in the #1 cylinder was shorted. Replaced the probe and observed normal operation. Auth: 00124402 ATA 71.00.000

Note:

This Discrepancy is covered under warranty.

1350-22-0581

MAINTENANCE RECORD F.A.R. 43.9

AIRCRAFT TIME
IN SERVICE

DESCRIPTION OF WORK PERFORMED
OR APPROVED DATA USED

AGENCY & CERTIFICATE NO.
WORK PERFORMED/RETURNED TO SERVICE



Hangar 23, Tulsa International Airport-Tulsa, OK 74115
(918)836-6418

Date: 4/25/2014; Aircraft: N458TC

Completed Cirrus 100 hour CMX program items:

Inspected this engine using the Cirrus Aircraft and Continental Motors instructions for continued airworthiness. Changed the oil and filter. Inspected the old filter and found it clean. Obtained oil sample for analysis. Installed new filter and 8 qts of Phillips 20W50XC oil. Inspected for leaks. Compression readings: 1-74, 2-70, 3-75, 4-72, 5-74 & 6-74 over 80 psi. Master orifice reading was 46 psi. Removed, cleaned, gapped, tested and rotated the spark plugs. Re-installed using new gaskets. Completed visual inspection of the fuel nozzles. No discrepancies noted at this time. Researched the Service Bulletins on this aircraft. Inspected the propeller using the Cirrus maintenance form. Lubricated iaw the Hartzell maintenance manual. Re-set magneto timing to 24BTDC. Inspected oxygen system. Adjusted fuel aneroid out 1/4 turn to increase fuel flow on take-off. Lubricated the pilots and co-pilots door latches. Complied with Cirrus SA14-01 and CAV Aerospace SB: 13247-01-30-003 by inspection of the de-ice timer box s/n. Timer box p/n: 13247-01 s/n: CAVIM13F0032 falls within affected timer boxes. Replaced the timer box wiring harness with Mod kit p/n: 13247-10. Installed label on box indicating that this service bulletin has been complied with. Cirrus Warranty

I certify this Aircraft has been inspected in accordance with a 100 Hour CMX inspection and was determined to be in airworthy condition this date.

W/O# MA14-0438 Date 4-25-2014 FO Hours 90.5 Hobbs: 121.8

Signature: Steve Collins
Autopilot's Central, Inc. FAA CRS CM2R747K

MAINT



Hangar 23,
(918)836-6418

Date: 12/18/2014; Aircraft: N458TC
Cirrus SR22T, S/N: 0637 Annual Inspection.
WO: MA14-04635 Hobbs: 240.0 Flt. Hour: 188.1

Inspected this aircraft using the Cirrus Aircraft inspection form. Researched the mandatory service bulletins on this a/c. Researched the AD notes on the airframe, engine, propeller and appliances. Reviewed the FAA Type Certificate #A00009CH Rev. 19 dated 2-04-2013 for required equipment. CW FAR 91.207 d, ELT frequency and G switch tests. Battery due 1-31-2020. ELT is an ACR (ARTEX) ME 406 S/N: 197-16334. IFR certifications iaw FAR 91.411 & 413 are due 10-31-2015. The Annual Inspection expires 12-31-2015. CAPS Parachute and Rocket Motor are due 10-31-2023. CAPS Reefing Line Cutters are due 8-31-2019. Oxygen Bottle assy is due 7-31-2028. AMSAFE EMA seat belt controller is due 8-31-2020. AMSAFE pilots seat belt inflator is due 4-01-2023. AMSAFE co-pilots seat belt inflator is due 9-01-2023. CO Detector is due 9-30-2020.

Made the following repairs or special inspections on this aircraft:

Replaced the RH wing walk. Adjusted the marker beacon audio levels. Complied with Cirrus SA13-05 by inspecting the elevator hinge pins. Re-attached the LH and RH aileron gap seals. Resealed the RH brake caliper and installed new brake temp indicators. Installed new brake linings on the RH side. Complied with SB2X-23-03R1 by installing Cirrus kits 70504-001 Static wicks, 70506-001 Electrical bonding, 70508-001 EVS camera bonding and 70509-001 Empennage Static wicks to dissipate P-static. Complied with SB2X-33-06 by installing gaskets in the Nav LED strobe light assembly's. Removed the nose wheel fairing and protectors. Re-installed after repair by Iron Horse Custom and Collision. Installed new nose cover protector, paint stripe protectors and tow bar clear protectors.

I certify this Aircraft has been inspected in accordance with an Annual inspection and was determined to be in airworthy condition this date.

Signature

Autopilots Central, Inc. CRS CM2R747K



Autopilots Central, Inc.

3112 North 74th East Avenue
Hangar 23, Tulsa International Airport - Tulsa, OK 74115
(918)836-6418 - Fax (918)832-0136
FAA CRS CM2R747K
Logbook Entry

DATE OF COMPLETION
O. SERVICE

Sold To: Synergy Aviation LLC
6303 N. Portland Ave. Suite 305
Oklahoma City, OK 73112-1411

Work Order: **MA15-04705**
Acct Number: (405)702-0901

Opened: 2/27/2015
Closed: 3/05/2015

Aircraft Number:	N458TC	Type:	SR22T	S/N:	0637
Total Time:	213.0	Hobbs Time:	213.0	Tach Time:	LG Cycles:
Eng#	Type	S/N	Time Cycles	Prop Type	Prop S/N
1	TSIO-550K1B	1009114	213.0	PHC-J3Y1F-IN	NJ812B
					213.0

Discrepancy: 1

Action Taken:

Aircraft is broke down at PWA airport in Oklahoma City, OK. Traveled to OKC to pick up aircraft and ferry to Tulsa for repair work. Case # 136914.

Note:

This Discrepancy is covered under warranty.

Discrepancy: 2

Action Taken:

Electrical charging problems. Performed electrical checks per MM 24-30 page 25 & 26. Recorded data and forwarded to Cirrus. Performed visual inspection of wiring at alternators # 1 & 2. Found # 2 alternator A+ lead broken off and lead welded to the A+ stud. Removed unit p/n 657199H s/n H-N080970. Installed new alternator p/n 657199H s/n H0080694. Run up engine with proper output from the # 2 alternator but had intermittent output on the # 1 alternator. Had intermittent field voltage at the # 1 alternator field. Removed MCU cover to inspect connectors and fuses. Found top small connector plug was not seated on the circuit board pins. Cleaned pins and resealed plug. Run up engine with normal alternator # 1 operation. ATA code 24.30.028 1.25 hrs, ATA code 24.30.000 3.0 hrs.

Note:

This Discrepancy is covered under warranty.

Part Number	Description	Credit	Quantity	Units	List Price	Disc	Unit Price	Extended
657199	Alternator		1.00	Each				\$
	This part is covered under warranty.							
	S/N: H-0080694		1.00					\$
	Freight		1.00	Each				\$
MS25171-2S	Nipple							\$
	This part is covered under warranty.							

Discrepancy: 3

Totals:

SubTotal:	\$
Less Warranty Labor:	\$
Less Warranty Parts:	\$
Charges:	\$

The articles and/or work hereon described is/are certified airworthy (unless otherwise specified).

Autopilots Central, Inc.
FAA CRS CM2R747K

Authorized Signature _____

Parts installed may be FAA/PMA'd or STC's parts and not of "Original Equipment Manufacture" (OEM) and as such are not covered by the OEM's Warranty.

MAINTENANCE RECORD



Autopilots Central, Inc.
 3112 North 74th East Avenue
 Hangar 23, Tulsa International Airport - Tulsa, OK 74115
 (918)836-6418 - Fax (918)832-0136
 FAA CRS CM2R747K
 Logbook Entry

Sold To: Synergy Aviation LLC
 6303 N. Portland Ave. Suite 305
 Oklahoma City, OK 73112-1411

Work Order: MA15-04843
 Acct Number: (405)702-0901

Opened: 7/14/2015
 Closed: 7/17/2015

General Comments:

Flight HM 290.5 hrs. Hobbs HM 364.9 hrs.

Aircraft Number:	N458TC	Type:	SR22T	S/N:	0637		
Total Time:	290.5	Hobbs Time:	290.5	Tach Time:	LG Cycles:		
Eng#	Type	S/N	Time	Cycles	Prop Type	Prop S/N	Prop Time
1	TSIO-550K1B	1009114	290.5		PHC-J3Y1F-IN	NJ812B	290.5

Discrepancy: 1

Problem:

Airframe 50 & Engine 100 Hour Inspections are due per Cirrus CMX program.

Action Taken:

N458TC Cirrus SR22T - 0637 Flt Hr 290.5 CMX 50 & 100 Hour Inspection.

Inspected this Aircraft and Engine iaw the Cirrus CMX 50 / 100 hour and Continental 100 hour inspection items. Changed oil and filter, serviced with 8qts Phillips 20w50xc. Cut and inspected old oil filter. Installed new oil filter assembly. Adjusted manifold pressure and fuel flow with oil temperature at 200 degrees. Accomplished cylinder compressions with the following results: 1=76, 2=68, 3=72, 4=73, 5=72, 6=74. Re-torqued all rocker cover gaskets. Removed, cleaned, inspected, gapped and re-installed all spark plugs using new gaskets. Installed new chaff tape on lower engine cowling. Removed left hand brake cylinder, cleaned, inspected, installed new brake cylinder o-rings, reinstalled and bleed brake system. Installed new brake temperature indicators and new brake linings on left hand brake. Re-attached left hand gear brake line tie downs. Re-secured left hand gear strut fairing chaff pads. Ground run for operational and leak checks.

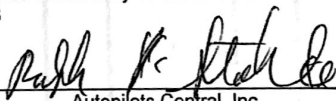
I certify this aircraft and Engine has been inspected with the Cirrus CMX 50 & 100 hour / Continental 100 hour inspection items and was determined to be in airworthy condition on this date.

W/O MA15-04843

Date 7/16/2015

Flt Hrs. 290.5

Signature



Autopilots Central, Inc.
 Tulsa, OK 74115
 FAA CRS CM2R747K

Note:

This Discrepancy is covered under warranty.

Part Number	Description	Credit	Quantity	Units	Unit Price	Extended
066-06200	Lining This part is covered under warranty.		4.00	Each		\$
101-34500	O-Ring This part is covered under warranty.		2.00	Each		\$
20W50XC	Phillips Detergent Oil This part is covered under warranty.		8.00	Each		\$
50561-045	Tape, Wing Root/Inch This part is covered under warranty.		24.00	Inch		\$
51401-063U	Foam Tape/Flt. This part is covered under warranty.		1.00	Each		\$
51698-001	Brake Temperature Label (BLUE) This part is covered under warranty.		1.00	Each		\$
51698-003	Brake Temp Label (YELLOW)		1.00	Each		\$

Autopilots Central, Inc.
3112 North 74th East Avenue

	This part is covered under warranty.			
53722-063U	Tape, Cowl Seal/Inch	25.00	Inch	\$
	This part is covered under warranty.			
AA48108-2	Oil Filter	1.00	Each	\$
	This part is covered under warranty.			
AOA	Oil Analysis Kit	1.00	Each	\$
	This part is covered under warranty.			
M674	Gasket	6.00	Each	\$
	This part is covered under warranty.			

Totals:

SubTotal:	\$
Less Warranty Labor:	\$
Less Warranty Parts:	\$
Charges:	\$

The articles and/or work hereon described is/are certified
airworthy, (unless otherwise specified).

Autopilots Central, Inc.
FAA CRS CM2R747K

Authorized Signature _____

Ralph P. Stabile



Autopilots Central, Inc.

3112 North 74th East Avenue
Hangar 23, Tulsa International Airport - Tulsa, OK 74115
(918)836-6418 - Fax (918)832-0136
FAA CRS CM2R747K
Logbook Entry

Sold To: Synergy Aviation LLC
6303 N. Portland Ave. Suite 305
Oklahoma City, OK 73112-1411

Work Order: MA15-04853
Acct Number: (405)702-0901

Opened: 7/20/2015
Closed: 10/13/2015

General Comments:

Hobbs read 390.7 hrs. Flight HM & ACTT read 310.7 hrs.

Aircraft Number: N458TC		Type: SR22T		S/N: 0637			
Total Time: 310.7		Hobbs Time: 310.7		Tach Time: LG Cycles:			
Eng#	Type	S/N	Time	Cycles	Prop Type	Prop S/N	Prop Time
1	TSIO-550K1B	1009114	310.7		PHC-J3Y1F-IN	NJ812B	310.7

Discrepancy: 1

Problem:

Alternate air door switch intermittent. p/n ETI-G2-703SR Cirrus 25596-001 Cirrus warranty authorization # 141715.

Action Taken:

Installed new alternator air door switch. Cirrus 25596-001 Cirrus warranty authorization # 141715. ATA code 72.60.007

Note:

This Discrepancy is covered under warranty.

Part Number	Description	Credit	Quantity	Units	Unit Price	Extended
ETI-G2-703-SR	Switch, ALT Air		1.00	Each		\$
	This part is covered under warranty.					
	Freight		1.00			\$
TY528M	Ty Wrap, Heat Resistant		7.00	Each		\$
	This part is covered under warranty.					

Discrepancy: 2

Problem:

Need to replace the engine fuel injection pump and set up per MM instructions. Cirrus warranty.

Action Taken:

Installed new fuel injection pump p/n 649368-60A7 unit s/n B15HA083. Removed pump s/n B13HA143. Set unmetered and metered fuel pressures iaw Continental manual # M18 section 6_3.7.1 table 6-3. Unmetered fuel pressure was 8.0 psi. on the low side and 25.0 psi. on the high side. Fuel flow indications per Cirrus service manual was 36.3 inches MP, 2500 RPM and 40 GPH at 192 degrees oil temperature. ATA code 73.10.001.

Note:

This Discrepancy is covered under warranty.

Part Number	Description	Credit	Quantity	Units	Unit Price	Extended
649368-60A7	Fuel Pump Assembly		1.00	Each		\$
	This part is covered under warranty.					
	S/N: B15HA083					
	Core Charge		1.00	Each		\$
	Freight		1.00			\$
649982	Gasket		1.00	Each		\$
	This part is covered under warranty.					

Discrepancy: 3

Problem:

Need to update Perspective software to 074.23 Customer to pay for this item. Case # 00144163 ATA Code 34.15.000

Action Taken:

DATE OF
COMPLETION
AIRCRAFT TIME
IN SERVICE

DESCRIPTION OF WORK PERFORMED
OR APPROVED DATA USED

AGENCY & CERTIFICATE NO.
WORK PERFORMED/RETURNED TO SERVICE

Autopilots Central, Inc.
3112 North 74th East Avenue

Updated software from 0764.18 to 0764.23. Traffic showing ghost image after takeoff appears to operate normally below 30-35 knots. Target load GTX-33ES transponder and GTS-800 traffic software and configuration files numerous times (no change). R&R'd GTS-800 traffic box and inspect wiring and pin placement in connector. Swapped GIA 1 and GIA 2 boxes and set to active and swapped boxes back to original position and set to active (no change). Checked wiring between GIA's. Target load GTX-33ES transponder and GTS-800 traffic configuration and software files again. Removed GTS-800 traffic box s/n 15L007217 and installed overhauled unit p/n 011-01356-00, s/n 15L008122 and target load traffic GTS-800 software and configuration files again. **System fails test.** Accomplished complete reload of the 0764.23 software and configuration files plus unlocked all options. **System still fails test.** Accomplished complete reload of 0746.18 original system software and unlock options. Checked all antenna coax at GTS800 and antenna connections. **System still fails test, appears to be heat related to the new GTS-800 traffic box.** Reinstalled original GTS-800 traffic box and target load for traffic system. System operates normally. Defueled entire aircraft and accomplished fuel system calibration left and right side. Aircraft ground run and flown with no problems noticed.

As of this date 10/9/2015 I have a minimum of 12 man hours in complete 0764.23 software downloads twice per Cirrus request, approximately 5 man hours in target reloads approximately 5 times per Cirrus request, approximately 5 man hours in checking wiring and swapping boxes for troubleshooting per Cirrus request and 1 man hours for R&R of GTS-800 traffic box. Reloaded original 0764.18 software back onto system, 4.5 man hours. Reinstall original GTS-800 traffic box and target load options, 1.5 man hours. Defuel, and calibrate fuel system, 3 man hours. Reinstall removed interior, .5 an hours. Case # 00144163, ATA Code 34.15.000.

Note:

This Discrepancy is covered under warranty.

Part Number	Description	Credit	Quantity	Units	Unit Price	Extended
26659-001S	GTS800 (011-01356-00)		1.00	Each		\$
	This part is covered under warranty.					
	S/N: 15L008122					
	Core Charge		1.00	Each		\$
	Freight		1.00			\$

Part Number	Description	Credit	Quantity	Units	Unit Price	Extended
AVGAS	AvGas		35.00	Gallon		\$

Totals:

SubTotal:	\$
Less Warranty Labor:	\$
Less Warranty Parts:	\$
Charges:	\$

The articles and/or work hereon described is/are certified airworthy, (unless otherwise specified).

Autopilots Central, Inc.
FAA CRS CM2R747K

Authorized Signature _____



MAINTENANCE RECORD

F.A.R. 43.9

AIRCRAFT TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED OR APPROVED DATA USED	AGENCY & CERTIFICATE NO. WORK PERFORMED/RETURNED TO
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MAKE: CIRRUS DESIGN CORP
 MODEL: SR22T
 S/N: 0637
 REG. NO: N458TC
 WORK ORDER: 17588-12-2015



Cirrus Design Factory Service Center

Repair Station No. YD5R855Y
 4961 Airport Road
 Duluth, MN 55811
 Phone: 218-788-3049

DATE: 12/18/2015
 A/C TSN: 344.2
 FLIGHTTIME: 344.2

Airframe Entries

- (2) Performed an annual inspection of this aircraft in accordance with the Cirrus Aircraft SR-22T AMM Chapter 05-20 inspection checklist.
- (5) Performed research of the aircraft logbooks for applicable Airworthiness Directives through bi-weekly 2015-24. There are no ADs that require compliance at this time.
- (6) Performed research of the aircraft records for any mandatory service bulletins that are due. Separate line items have been created for mandatory service bulletins that are due.
- (13) Inspected the Precise Flight Built-In Oxygen system in accordance with the ICA (102NMAN0003) Scheduled Maintenance Checklist.
- (14) Inspected and weighed the fire extinguisher. Recorded weight: 522.4 grams.
- (15) Complied with inspection of the ELT in accordance with 91.207(d). Battery due date: Jan, 2020.
- (18) Complied with SB2X-28-12R1 in accordance with the service bulletin instructions. Electric Fuel Pump leak check good.
- (19) Complied with SB2X-42-10R2 Perspective S/W Update by installation of Perspective software v0764.23 in accordance with the service bulletin instructions. Updated the MFD Splash Screens and Checklists to the latest revision in accordance with the Cirrus Technical Publications Update Instructions. Post installation function check performed satisfactory.
- (20) Installed new NLG Fairing, P/N 31782-001, IAW AMM 32-20.
- (23) Removed and Replaced worn Alternator #1 Brush Set Holder P/N ALE-304BS IAW Hartzell Overhaul Manual OE-A2. Operational Check Good.
- (24) Removed and Replaced worn Air Conditioning Turnbuckle, P/N MS21251-A5S; Rod Ends P/N MS21254-5LS and MS21254-5RS. Adjusted turnbuckle to correct belt tension and installed locking safety clips P/N MS21256-1. Work performed IAW Cirrus AMM Chapters 21-50 and 20-50. Operational Check Good.
- (25) Complied with 91.411 and 91.413 pitot/static and transponder 24 month inspection. No defects found.
- (26) Removed NLG fork assembly, cleaned, inspected and reinstalled with new hardware: p/n's 50750-101 belleville washers, MS17826-8 castellated nut, MS24665-355 cotter pin, and NAS1149FO863P washer. Performed adjustment/test to NLG fork assembly with satisfactory results I.A.W. CDC A.M.M. 32-20. No discrepancies found on spindle flange and cup.
- (27) Replaced LH and RH MLG tires P/N 14075-006 and tubes P/N 14076-002 IAW Cleveland Component Maintenance Manual

MAINTENANCE RECORD

F.A.R. 43.9

AIRCRAFT TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED OR APPROVED DATA USED	AGENCY & CERTIFICATE NO. WORK PERFORMED/RETURNED TO SERVICE
AWBCMM001-6.	<p>(28) Removed and Replaced all Brake Linings P/N 066-06200 and both Brake Discs P/N 164-02504. Work performed IAW Cirrus AMM Chapter 32-42. Performed Brake conditioning IAW Cirrus AMM Chapter 32-42. Operational Check Good.</p> <p>(30) Re-Installed Loose LH Horizontal FIKI Grommet P/N MS35489-7 IAW Standard Maintenance Practices.</p> <p>(31) Replaced missing safety wire for 2 Elevator Attach Bolts IAW Cirrus AMM Chapter 20-50.</p> <p>(32) Removed and Replaced leaking TKS fittings and O-Rings at RH Elevator access panel; 2 Nuts P/N 15164-001, 2 Olives P/N 15164-021 and 2 O-Rings P/N 15164-091. Work performed IAW Cirrus AMM Chapter 30-10. Operational and Leak Checks good.</p> <p>(33) Removed and Replaced torn Pilot Door Foam Seal P/N 52010-008U IAW Standard Maintenance Practices.</p> <p>(34) Removed and Replaced peeling R/H and L/H Aileron Gap Seals P/N 14390-003-05 IAW Cirrus AMM Chapter 57-50.</p> <p>(35) Cleaned and inspected Manifold Pressure Sensor connector. Ground run performed IAW with CDC form 414, no defects notes.</p> <p>(37) Operationally checked stall warning vane and inspected associated wiring. No defects noted. Could not duplicate malfunction. No further action required.</p> <p>(38) Performed inspection of Cabin Door Latching Mechanism; lubricated both door latches. Door functions properly.</p> <p>(43) No CAS pressure message when checked outside at 30 F. Function and ops check good.</p> <p>(44) Installed 2 new p/n 50979-001 batteries in <u>Battery #2</u> position IAW CDC AMM 24-30. Operational check good.</p> <p>(45) Removed and Replaced <u>Ice Protection System Filter</u> P/N 21986-002; <u>2 year</u> mandatory replacement. S/N off CAV113H010, S/N on CAV114F086. Work performed IAW Cirrus AMM Chapter 30-07. Leak Check good.</p> <p>(46) Removed and replaced Pilot door cable fastener IAW standard maintenance practices.</p> <p>(47) Removed and replaced L/H door panel aft side screw standoff IAW Standard Maintenance Practices.</p> <p>(49) Performed GSM85A/86 Autopilot Pitch, Roll, Yaw Servo Clutch Tests IAW CDC AMM 22-12, all servos test satisfactory.</p> <p>(50) Performed Minor Composite Repair to the RH Wing Root Fairing; 2 Middle Outboard access panel attach holes using the Epon Resin System IAW Cirrus AMM Chapter 51-30.</p> <p>(51) Torqued air box to turbocharger clamp IAW AMM 71-60.</p> <p>(52) Replaced Garmin GTS 800, PN 26659-001. SN off 15L007217, SN on 15L009057. Loaded software and performed function checks with satisfactory results. All work performed IAW CDC AMM 34-40.</p> <p>(53) Serviced TKS System to capacity IAW Cirrus AMM Chapter 12-10.</p> <p>(54) Post annual test flight performed by CDC test pilot with satisfactory results.</p> <p>(55) Adjusted co-pilot side door seal IAW AMM 52-10.</p> <p>(57) Deferred Due to lack of parts - Marker Beacon Antenna P/N 12743-003 on Order. IFR FLIGHT INOP placard installed.</p> <p>(58) I certify that this aircraft has been inspected in accordance with an annual inspection and was determined to be in an airworthy condition.</p>	

I have reviewed the file on this aircraft and the accompanying discrepancy forms. The aircraft, airframe, aircraft engine, propeller or appliance identified was repaired/inspected in accordance with current requirements of the Federal Aviation Administration and is approved for return to service. Pertinent details of this work order are on file at this Certified Repair Station CRS YD5R855Y.

DATE: 12/18/2015

SIGNED:

Glenn Nelson
 Certified Repair Station No. YD5R855Y

Work Order: 17588-12-2015

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MAINTENANCE RECORD F.A.R. 43.9

DATE OF COMPLETION	AIRCRAFT TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED OR APPROVED DATA USED	AGENCY & CERTIFICATION WORK PERFORMED/RETURN
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MAKE: CIRRUS DESIGN CORP
MODEL: SR22T
S/N: 0637
REG NO: N458TC
WORK ORDER: 17626-12-2015



Cirrus Design Factory Service Center

Repair Station No. YD5R855Y
4961 Airport Road
Duluth, MN 55811
Phone: 218-788-3049

DATE: 12/18/2015
A/C TSN: 345
FLIGHTTIME: 345

Airframe Entries

(2) Replaced Marker beacon Antenna P/N 12743-003, S/N off: 0913, S/N on: 1115 IAW AMM chapter 34-30. Ops check good.

I have reviewed the file on this aircraft and the accompanying discrepancy forms. The aircraft, airframe, aircraft engine, propeller or appliance identified was repaired/inspected in accordance with current requirements of the Federal Aviation Administration and is approved for return to service. Pertinent details of this work order are on file at this Certified Repair Station CRS YD5R855Y.

DATE: 12/18/2015

SIGNED:

Joseph Sullivan
Certified Repair Station No. YD5R855Y

Work Order: 17626-12-2015

Printed by EBis 3 (datcomedia.com)



WELLS AIRCRAFT, INC.
800 AIRPORT 0690
MUNICIPAL AIRPORT
HUTCHINSON, KS 67501-1953
CRS NT2R043L
(620)663-154
www.wellsac.com

Date: 03-14-2016
Work Order: S8216
N458TC S/N 22T-0637
Flight Time: 475.4
Hobbs Meter: 377.2

ENGINE LOG



Installed new starter lead wire end connector. Checked and re-set timing to Engine Data plate. Checked fuel flow numbers are at book. Ground check battery & starter check was good. Work was performed with ref. to applicable sections of CDC SR22/22T AMM Rev. 1.

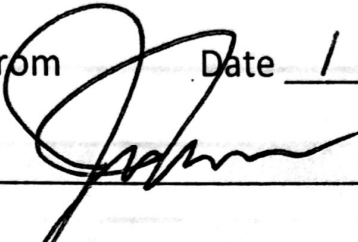
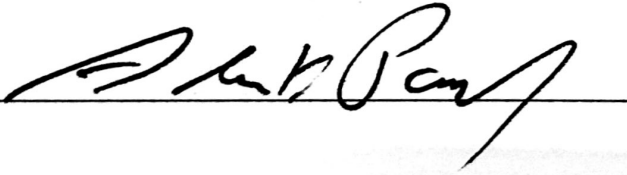
Pertinent details of the repair / inspection are on file at this Certified Repair Station CRS NT2R043L.

Authorized Signature:

Chad J. Kohn / CRS Release Authority

INSPECTION RECORD

F.A.R. 43.11-91.409

TIME CE	KIND OF INSPECTION—STATUS & DISCREPANCY LIST SIGNATURE — CERT. NO. OF PERSON APPROVING OR DISAPPROVING AIRCRAFT OR SERVICE
	<p>Production Flight Test accomplished in accordance with Cirrus Procedure #90504.</p> <p>Name: Justin Krom Date <u>1 Nov 13</u></p> <p>Signature: </p> <p>Title: Production Flight Test Pilot</p>
	<p>I find that the aircraft meets the requirements for the certification requested and have issued an U.S. Standard Airworthiness Certificate dated <u>11 / 01 / 2013</u>. The next inspection is due <u>11 / 30 / 2014</u>.</p> <p></p> <p>Abram K. Pauna DMIR-833745-CE</p>



Autopilots Central, Inc.
 3112 North 74th East Avenue
 Hangar 23, Tulsa International Airport - Tulsa, OK 74115
 (918)836-6418 - Fax (918)832-0136
 FAA CRS CM2R747K
 Logbook Entry

Sold To: Synergy Aviation LLC
 6303 N. Portland Ave. Suite 305
 Oklahoma City, OK 73112-1411

Work Order: MA16-05108
 Acct Number: (405)702-0901

Opened: 3/09/2016
 Closed: 4/19/2016

Aircraft Number:	N458TC	Type:	SR22T	S/N:	0637
Total Time:	393.3	Hobbs Time:	393.3	Tach Time:	
Eng#	1	Type	TSIO-550K1B	Prop S/N	NJ812B
S/N	1009114	Time Cycles	393.3	Prop Type	PHC-J3Y1F-IN
LG Cycles:		Prop Time			393.3

Discrepancy: 1

Problem:

Nose wheel pant missing access door. Case number 00154022 p/n: 26880-001-05

Action Taken:

Removed nose wheel pant and installed new access panel and stripes, reinstalled nose wheel fairing.

Note:

This Discrepancy is covered under warranty.

Part Number	Description	Credit	Quantity	Units	Unit Price	Extended
12343-XXX-NLG-LH	Stripe, LH NLG Wheel Pant		1.00	Each		\$
	This part is covered under warranty.					
26880-001-05	Access Door, NLG, Sterling		1.00	Each		\$
	This part is covered under warranty.					

Discrepancy: 2

Problem:

SB 2X-52-08R1 Gas strut replacement.

Action Taken:

CAW SB 2X-52-08 R1 Catcher/ Diverter and gas strut replacement. ATA 52.10.007

Note:

This Discrepancy is covered under warranty.

Discrepancy: 3

Problem:

Oil and filter change.

Action Taken:

Changed oil and filter. Cut oil filter open media normal. Ground ran. Checked exterior lights, inspected wheels and brakes. operational check OK.

Part Number	Description	Credit	Quantity	Units	Unit Price	Extended
20W50XC	Phillips Detergent Oil		8.00	Each		\$
AA48108-2	Oil Filter		1.00	Each		\$
AOA	Oil Analysis Kit		1.00	Each		\$

Discrepancy: 4

Problem:

Could not get the Oil filter off. authorization 00157005.

Action Taken:

Removed air conditioner compressor assembly to gain access to remove oil filter with strap wrench. ATA 79.20.000.

Note:

This Discrepancy is covered under warranty.

Discrepancy: 5

Problem:

Air conditioner belt loose.

Printed: 4/19/2016

Work Order: MA16-05108

Page: 1 of 2

AIRCRAFT TIME

FUEL TANK

KIND OF INSPECTION - STATUS & DISPOSITION

SERVICE

DATE

Autopilots Central, Inc.
3112 North 74th East Avenue

Action Taken:

Tightened air conditioner belt as per service instruction.

Part Number	Description	Credit	Quantity	Units	Unit Price	Extended
MS21256-1	Clip		2.00	Each		\$

Miscellaneous Charges:

Misc Supplies: \$

Totals:

SubTotal:	\$
Less Warranty Labor:	\$
Less Warranty Parts:	\$
Charges:	\$

The articles and/or work hereon described is/are certified
airworthy, (unless otherwise specified).

Autopilots Central, Inc.
FAA CRS CM2R747K

Authorized Signature



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**

MAKE: Cirrus Design Corp
MODEL: Sf22T
S/N: 0637
REG. NO. N458TC
WORK ORDER: 50661

Turbine Aircraft Services LLC

7101 Millionaire Drive, Hangar 21
Bethany, Oklahoma 73008

DATE: 5/26/2016
A/C TSN: 403
HOBBS: 403

Airframe Entries

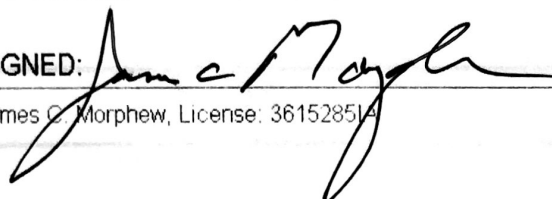
1) Installed new terminal end on power wire to starter. Operational checks ok.

The Aircraft and/or component(s) items identified above were repaired and inspected in accordance with current Federal Aviation Regulations and was found Airworthy for return to service.

DATE: 5/26/2016

SIGNED:

James C. Morphey, License: 361528514



Work Order: 50661

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Autopilots Central, Inc.

3112 North 74th East Avenue
Hangar 23, Tulsa International Airport - Tulsa, OK 74115
(918)836-6418 - Fax (918)832-0136
FAA CRS CM2R747K
Logbook Entry

Sold To: Synergy Aviation LLC
6303 N. Portland Ave. Suite 305
Oklahoma City, OK 73112-1411

Work Order: MA16-05191
Acct Number: (405)702-0901

Opened: 6/08/2016
Closed: 6/08/2016

General Comments:

Hobbs meter reads 511.7 hrs. Flight HM & ACTT reads 406.7 hrs.

Aircraft Number: N458TC		Type: Cirrus SR22T		S/N: 0637	
Total Time: 406.7		Hobbs Time: 406.7		Tach Time: LG Cycles:	
Eng#	Type	S/N	Time	Cycles	Prop Type
1	TSIO-550K1B	1009114	406.7		PHC-J3Y1F-IN
					Prop S/N
					NJ812B
					Prop Time
					406.7

Discrepancy: 1

Problem:

Loosing MP indication and percent power goes inoperative. Suspect wiring problem or MP transducer. Aircraft is under Cirrus warranty.

Action Taken:

Troubleshoot system. Repaired broken wire at right aft engine baffle pass through. Ground run for operation. ATA:77.10.000

Note:

This Discrepancy is covered under warranty.

Totals:

SubTotal:	\$999
Less Warranty Labor:	\$999
Charges:	\$999

The articles and/or work hereon described is/are certified airworthy, (unless otherwise specified).
Autopilots Central, Inc.
FAA CRS CM2R747K

Authorized Signature Donald Cole

AIRCRAFT TIME

INSPECTION RECORD
F.A.R. 43.11-91.409

KIND OF INSPECTION-STATUS & DISCREPANCY LIST

SERVICE

INSPECTION RECORD

F.A.R. 43.11-91.409

ENGINE MODEL
IN SERVICE

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

ENGINE MODEL
TS10550K1B
ENGINE S/N 1009114
REG. NO. N458TC
WORK ORDER 50683

Turbine Aircraft Services LLC

7101 Millionaire Drive, Hangar 21
Bethany, Oklahoma 73008

DATE 8/5/2016
A/C TSN 440
ENG T 440
TSMOH
HOBBS 440

Engine Entries

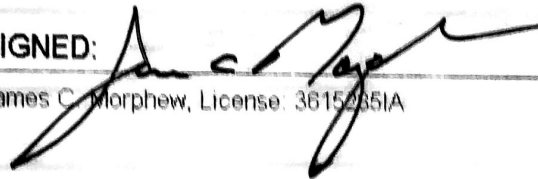
(1) Changed oil and filter, inspected old filter, no metal found by visual inspection. Installed new filter P/N AA48108-2 and serviced engine with 8 quarts Phillips XC 20w50 oil. Engine ground run normal, no leaks noted. Oil sample taken for analysis.

The Engine and/or component(s) items identified above were repaired and inspected in accordance with current Federal Aviation Regulations and was found Airworthy for return to service.

DATE: 8/5/2016

SIGNED:

James C. Morphew, License: 36152351A



Work Order: 50683

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MAKE: Cirrus Design Corp
 MODEL: SR22T
 S/N: 0637
 REG. NO: N458TC
 WORK ORDER:
 3243-08-2016



Classic Aviation, Inc.
 501 W 15th St
 Pella, IA 50219
 Phone: 641-628-9393

DATE: 9/8/2016
 A/C TSN: 442.9
 HOBBS: 442.9

Airframe Entries

(2) Annual Inspection. Inspected aircraft in accordance with Cirrus A.M.M. checklist chap 5-20 and performed operational inspection IAW chap 5-30. Checked all controls and cables. Cleaned and greased all wheel bearings, checked brakes. Cleaned fuel strainer and reinstalled with new seals. Checked all applicable ADs and updated list in aircraft records.... (6) Inspected and tested ELT In Accordance With FAR 91.207(d), and found it to be operating properly. (battery due for replacement Jan 2020).... (7) Complied with Instructions for Continued Airworthiness per Precise Flight Doc. #102NMAN0003, Rev. E. Serviced Oxygen to full. No leaks/defects noted.... (8) Complied with Cirrus Service Bulletin SB2X-32-22, with no defects noted on Nose Landing Gear Strut Assembly.... (9) Installed new engine induction air filters P/N- 27166-001.... (10) Installed new main battery P/N- RG24-15M S/N- 40822274.... (11) Complied with Cirrus SB2X-53-05R1 by removing adhesive backed wing walk and adhesive residue from both wings. Applied PTI, Sterling Wing Walk coating to both wings in designated areas.... (12) Removed NO STEP placards from both wing root fairing aft end and installed 2 new placards P/N- 12433-001.... (13) Removed leading edge abrasion tape from left cabin entry step and applied new abrasion tape P/N- 51168-002.... (14) Disassembled Right main landing gear attachment clamp and installed new washer (2) P/N NAS1149D0632K. Reassembled Right main landing gear attachment clamp following instructions in the SR22T Cirrus Airplane Maintenance manual 32-10 page 10.... (16) Removed right elevator tip to check for blockages in fluid lines, none found. Reattached TKS fluid lines with new seals P/N- 15164-091. Performed leak check, with no leaks noted at this time. Reinstalled right elevator tip as needed.... (17) Installed new Air Conditioning compressor drive assembly P/N- 1133180-4 with new gasket P/N- 653487. Set belt tension as required and saftied turnbuckle with new clips P/N- MS21256-1. Performed operational check and leak check, operational check good with no leaks noted at this time.

I certify that this aircraft has been inspected in accordance with an annual inspection and was determined to be in airworthy condition.

DATE: 9/8/2016

SIGNED:

Wm. Haven Hick

Work Order: 3243-08-2016

Wm. Haven Hick, IA: 3428785

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AF LOG

8/5/16

1. Approving Civil Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: 5117513	
4. Organization Name and Address: Textron Aviation Inc. (PC4) Textron Aviation Inc. 1 Cessna Blvd, Wichita, KS 67215				5. Work Order/Contract/Invoice Number: 2290029		
6. Item: 10	7. Description: OIL FILTER SIX PACK	8. Part Number: AA48108-2-6PK	9. Quantity: 1	10. Serial Number: N/A	11. Status/Work: New	
12. Remarks: AUTHORIZED RELEASE DOCUMENT PO#: 3268						
13a. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.			14a. <input type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation 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.			
13b. Authorized Signature: <i>Randy Malcolm</i>		13c. Approval/Authorization No.: PC4	14b. Authorized Signature	14c. Approval/Certificate No.		
13d. Name (Typed or Printed): RANDY MALCOLM		13e. Date (dd/mm/yyyy): 07/Jun/2016	14d. Name (Typed or Printed):	14e. Date (dd/mm/yyyy):		
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 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.						

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
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MAKE: CIRRUS DESIGN CORP
MODEL: SR22T
S/N: 0637
REG NO: N458TC
WORK ORDER: 18337-09-2016



Cirrus Design Factory Service Center

Repair Station No. YD5R855Y
4961 Airport Road
Duluth, MN 55811
Phone: 218-788-3049

DATE: 9/22/2016
A/C TSN: 454.6
FLIGHTTIME: 454.6

Airframe Entries

- (2) Installed new R/H FIKI elevator horn assy P/N 19633-404-05 IAW AMM 30-10. Leak and function check satisfactory.
- (6) Installed missing washer to Control Quadrant Friction Lock Knob P/N NAS1149D0416J, IAW AMM chapter 76-10.
- (8) Lubed sticking ECS Coupler Assy behind Co-Pilots R/H Rudder pedal IAW AMM chapter 21-20 and 12-20. OPS check good.
- (9) Aircraft registration changed from N458TC to N715JK. Removed exterior registration numbers and applied new number. Updated the interior registration placard, POH, Weight and balance form and logbooks to reflect this change.
- (11) Reprogrammed ELT IAW Artex programming Instructions. 15 digit HEX ID: AD C6 49 9C 74 1E BE 1.
- (12) Reprogrammed Transponder and GTS800 to N# N715JK IAW Cirrus AMM 34-50. Operational check out good per Cirrus AMM 34-50.

I have reviewed the file on this aircraft and the accompanying discrepancy forms. The aircraft, airframe, aircraft engine, propeller or appliance identified was repaired/inspected in accordance with current requirements of the Federal Aviation Administration and is approved for return to service. Pertinent details of this work order are on file at this Certified Repair Station CRS YD5R855Y

DATE: 9/22/2016

SIGNED:

Ben Hodgkins

Work Order: 18337-09-2016

Ben Hodgkins
Certified Repair Station No. YD5R855Y

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GREAT RIVER AVIATION, LLC

1647 Hwy. 104, Quincy Regional Airport
Quincy, IL 62305
Phone: (217) 885-3353

Work Order No. M2086

November 4, 2016 **N715JK** Tach Time **0471.7**

Changed oil and filter, inspected old oil filter - No contaminants found.
Serviced engine with 7 quarts Aeroshell 20W50 oil and CH48108-1 oil filter.
Engine leak check - No defects noted.

The aircraft identified above was repaired and/or inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service for the work performed.

Signed *Ben PWS*
License # ATP 3658505

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
-----------------------------	--

MAKE: Cirrus Design Corp
 MODEL: SR22T
 S/N: 0637
 REG. NO: N715JK
 WORK ORDER:
 3608-04-2017



Classic Aviation, Inc.

501 W 15th St
 Pella, IA 50219
 Phone: 641-628-9393

DATE: 4/21/2017
 A/C TSN: 573.1
 HOBBS: 573.1

Airframe Entries

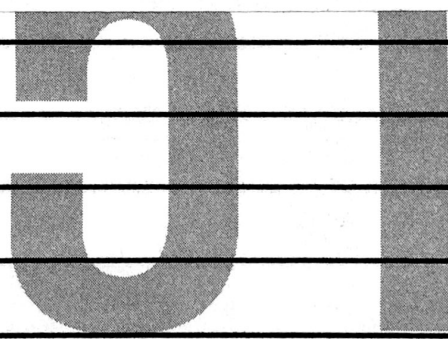
(1) Cleaned alternate air door switch connection. Secured connector to forward engine mount with (2) adel clamps P/N MS21919WDG-7. Applied abrasion tape to switch wires near cylinder #4 CHT probe. Performed operational check and found to be operating properly.

DATE: 4/21/2017

SIGNED: *Alex Ritter*
 Alex Ritter, A&P: 3729474

Work Order: 3608-04-2017

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RECORD
01.409

INSPECTION-STATUS & DISCREPANCY LIST
PERSON APPROVING OR DISAPPROVING AIRCRAFT FOR SERVICE

2 each \$192
STOP

NOTE KEY NUMBER
LOCATED ON THE
KEY AND MAKE A
LOG BOOK ENTRY



DATE

Date: 6/14/2017; Aircraft: N715JK; Type: CIRRUS SR22T; S/N: 0637; Hobbs: 623.80; Total Time: 623.80
Fit: 623.8 Hobbs: 769.0.

Airframe Work

Installed and repaired engine cowl electrical bonding material in accordance with Cirrus SB 2X-23-03R1. Continuity check normal. Disconnected co-pilots right rudder pedal from brake master cylinder. Removed co-pilots seat for access. Replaced cabin air coupler assembly p/n 17433-005 with new. Re-installed co-pilots seat. Re-connected rudder pedal. Air coupler assembly operated normal. Rudder/brake pedal operated normal through full travels. Seat belt airbag tested normal. Disconnected main battery. Removed #1 PFD for access. Removed ignition switch ACS p/n A-510-2, job order no. 4407, mfr date 08/13/13. Installed new ignition switch ACS p/n A-510-2, job order no. 50424, mfr date 04/24/17. Complied with AD 93-05-06 (04/29/93) for ACS ignition switch by replacing switch with new. Next inspection due 2623.8 ACTT. Re-installed #1 PFD. Re-connected battery. Functional check normal. New ignition switch keys (3ea) are key #192.

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

Martin McCauley *M/McCauley*
AP36545521A

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



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

**INSPECTION RECORD
F.A.R. 43.11-91.409**

WISCONSIN AVIATION FOUR LAKES, INC.


DESCRIPTION OF WORK DONE:

N715JK

Upgraded G1000 software from 563.23 to 563.35 in accordance with SB2X-42-12. Ramp check good

-----END-----

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

DATE: 6-12-2017 HOBBS: 0623.8 WO#: AV17-15427 SIGNED: 

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

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386

N715JK Cirrus SR22T S/N: 22T-0637

14 August 2017 Flight Hobbs: 0688.2 Hobbs Meter: 0849.7

Complied with Cirrus SB 2X-32-22R1 (Nose Strut Gusset Tube Inspection) by removal of paint at forward gusset tube weld joints. Completed dye penetrant inspection. No defects noted. Cleaned area and applied LPS 3. Next gusset tube inspection due Flight Hobbs: 0738.2.

 L. John Wells A&P3221132

w/o 38266

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: 9/28/2017; Aircraft: N715JK; Type: CIRRUS SR22T; S/N: 0637; Hobbs: 713.90; Total Time: 713.90; Engine - Type: TSIO-550-K, S/N: 1009114, Time: 713.90; Prop - Type: PHC-J3Y1F-1N, S/N: NJ812B, Time: 713.90
Flt: 713.9 Hobbs: 880.7.

*****Airframe Work*****

Completed an Annual inspection in accordance with FAR 43, Appendix D. AD 17-04-06 (4/7/17) Erroneous altimeter display, not applicable by altimeter not replaced during dated time frame and not applicable by serial number. Completed 1000 hr / 2 yr GSM 85A/86 servo mount visual inspection for security and condition. Inspected and tested ELT in accordance with FAR 91.207(d), no defects noted, next due 09/2018. 15-Digit HEX ID: ADC6499C741EBE1. Country Code: 366. ELT battery due 01/2020. Inspected and weighed cabin fire extinguisher, no defects noted. Serviced gascolator and reassembled with new seals p/n NAS1523-8B and MS29513-137. Cleaned and inspected left and right air filters. Checked control cable tensions and surface travels. Ground run for ops and leak ck normal. All work performed in accordance with approved/current technical data.

I certify that this Aircraft has been inspected in accordance with an Annual inspection and was determined to be in airworthy condition

Robert Kulp
AP3593428IA



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



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

INSPECTION RECORD

ALTIMETER, STATIC, AND TRANPONDER CERTIFICATE

N715JK

ADC #1

Madison, WI 53704

608-268-5006

Wisconsin Aviation Inc.
FAA CRS No. DBKR124D

Test Alt. x 1k Ft	-1	0	.5	1	1.5	2	3	4	6	8	10	12	14	16	18
Tol. ± Ft.	20	20	20	20	25	30	30	35	40	60	80	90	100	110	120
Actual ± Ft.	-20	-20	-20	-20	-20	-20	-20	-20	-20	-25	-25	-25	-25	-30	-30
Test Alt. x 1k Ft	20	22	25	30	35	40	45	50	Case Leak	OK	Hysteresis Tol + 75 Ft.		ALTIMETER MAKE: Garmin MODEL: GDC-74A S/N: 20616078		
Tol. ± Ft.	130	140	155	180	205	230	255	260	Tol. 100 Ft	OK	50% Max	5			
Actual ± Ft.	-35	-35	-40	X	X	X	X	X	Temp	21	40% Max	5			

CERTIFIED STATIC PRESSURE SYSTEM PER FAR 43 APP. E (a)
 CERTIFIED ALTIMETER PER FAR 43 APP. E. (b) TO (25) THOUSAND FEET.
 CERTIFIED AUTOMATIC PRESSURE ALTITUDE REPORTING EQUIPMENT PER FAR 43 APP. E (c).
 COMPLIED WITH RECORDS KEEPING PER FAR 43 APP. E (d).
 CERTIFIED TRANSPONDER SYSTEM PER FAR 43 APP. F.

TRANSPONDER MAKE: Garmin MODEL: GTX-33ES S/N: 89125838

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

Date: 10-4-2017 W.O.: 24648AV HOBBS: 0713.9 Signed:

BLIND ENCODER
 MAKE: Same
 MODEL: as
 S/N: Above

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

INSPECTION RECORD

ALTIMETER, STATIC, AND TRANPONDER CERTIFICATE

N715JK

ADC #2

Wisconsin Aviation Inc.
FAA CRS No. DBKR124D

Madison, WI 53704

608-268-5006

Test Alt. x 1k Ft	-1	0	.5	1	1.5	2	3	4	6	8	10	12	14	16	18
Tol. ± Ft.	20	20	20	20	25	30	30	35	40	60	80	90	100	110	120
Actual ± Ft.	-20	-20	-20	-20	-20	-20	-20	-20	-25	-25	-25	-30	-30	-30	-35
Test Alt. x 1k Ft	20	22	25	30	35	40	45	50	Case Leak	OK	Hysteresis Tol + 75 Ft.		ALTIMETER MAKE: Garmin MODEL: GDC-74A S/N: 20616067		
Tol. ± Ft.	130	140	155	180	205	230	255	260	Tol. 100 Ft	OK	50% Max	5			
Actual ± Ft.	-35	-40	-45	X	X	X	X	X	Temp	21	40% Max	5			

CERTIFIED STATIC PRESSURE SYSTEM PER FAR 43 APP. E (a)
 CERTIFIED ALTIMETER PER FAR 43 APP. E. (b) TO (25) THOUSAND FEET.
 CERTIFIED AUTOMATIC PRESSURE ALTITUDE REPORTING EQUIPMENT PER FAR 43 APP. E (c).
 COMPLIED WITH RECORDS KEEPING PER FAR 43 APP. E (d).
 CERTIFIED TRANSPONDER SYSTEM PER FAR 43 APP. F.

BLIND ENCODER

MAKE: Same
MODEL: as
S/N: Above

TRANSPONDER MAKE: Garmin MODEL: GTX-33ES S/N: 89125838

#2 TRANSPONDER

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

MAKE: X
MODEL: X
S/N: X

Date: 10-4-2017 W.O.: 24648AV HOBBS: 0713.9 Signed:

INSPECTION RECORD

ALTIMETER, STATIC, AND TRANPONDER CERTIFICATE

N715JK

Stby

Wisconsin Aviation Inc.
FAA CRS No. DBKR124D

Madison, WI 53704

608-268-5006

Test Alt. x 1k Ft	-1	0	.5	1	1.5	2	3	4	6	8	10	12	14	16	18
Tol. ± Ft.	20	20	20	20	25	30	30	35	40	60	80	90	100	110	120
Actual ± Ft.	-15	0	10	10	15	15	20	20	5	-15	-15	-15	-15	-5	0
Test Alt. x 1k Ft	20	22	25	30	35	40	45	50	Case Leak	OK	Hysteresis Tol + 75 Ft.		ALTIMETER MAKE: United MODEL: 12731-003 S/N: 501091		
Tol. ± Ft.	130	140	155	180	205	230	255	260	Tol. 100 Ft	OK	50% Max	15			
Actual ± Ft.	20	55	95	X	X	X	X	X	Temp	21	40% Max	15			

CERTIFIED STATIC PRESSURE SYSTEM PER FAR 43 APP. E (a)
 CERTIFIED ALTIMETER PER FAR 43 APP. E. (b) TO (25) THOUSAND FEET.
 CERTIFIED AUTOMATIC PRESSURE ALTITUDE REPORTING EQUIPMENT PER FAR 43 APP. E (c).
 COMPLIED WITH RECORDS KEEPING PER FAR 43 APP. E (d).
 CERTIFIED TRANSPONDER SYSTEM PER FAR 43 APP. F.

TRANSPONDER MAKE: Garmin MODEL: GTX-33ES S/N: 89125838

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

Date: 10-4-2017 W.O.: 24648AV HOBBS: 0713.9 Signed:

BLIND ENCODER

MAKE: Garmin
 MODEL: GDC-74A
 S/N: 20616078

#2 TRANSPONDER

MAKE: X
 MODEL: X
 S/N: X

Date: 10/06/2017; Aircraft: N715JK; Type: CIRRUS SR22T; S/N: 0637; Hobbs: 713.90; Total Time: 713.90
Flt: 713.9 Hobbs: 880.7.

Airframe Work

Completed inspection for continued airworthiness Precise Flight Oxygen System 1 year items, no defects noted. Complied with 500 Hr Engine mount torque check, next due 1213.9 ACTT. Removed right turbo charger p/n 646677 s/n H-QIL00001. Installed right turbo charger p/n 466304-9003, s/n LGL00212 after overhaul by Main Turbo Systems, Inc., CRS# MAMR190K, Wo# 53783, dated 9/27/2017. Replaced left tire with new, p/n 156E66B1, s/n 53535869. Replaced right tire with new, p/n 156E66B1, s/n 53565847. Replaced left and right inner tube p/n 097-500-0 with new. Replaced left wheel nuts p/n MS21044N5 with new. Cleaned, inspected and repacked left and right wheel bearings. Reinstalled left and right main wheel and tire assemblies. Replaced left and right brake linings p/n 66-062 with new. Replaced left and right brake caliper spacers p/n 068-01100 with new. Performed break in procedure, operational check normal. Serviced oxygen system to 2000 psi. Applied new seal tape p/n 53722-063U-Black and new heat shield tape p/n 53294-002 to upper and lower cowl sections. Resecured fittings at oil cooler tee fitting, leak check normal. Fill area of exposed cloth on left horizontal stabilizer with resin only. Touch up area with paint. Ground run for operational and leak check normal.

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

Clifford Sugden
AP2659994IA



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



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

Date: 12/06/2017; Aircraft: N715JK; Type: CIRRUS SR22T; S/N: 0637; Hobbs: 763.40; Total Time: 763.40
Flt: 763.4 Hobbs: 940.1.

Airframe

Replaced left pilot door panel p/n 20348-011 with new. Replaced left sidewall trim panel p/n 25997-004 with new. Replaced right sidewall trim panel p/n 5996-004 with new. Replaced left forward lower console trim p/n 19298-008 with new. Replaced right forward lower console trim p/n 12217-113 with new. Replaced air coupler controller for firewall shutoff valve p/n 17433-005 with new. Removed #2 alternator. Replaced #2 alternator power wire terminal p/n MS20569-109 with new. Re-installed #2 alternator. Fabricated and installed repair doubler on #2 alternator upper baffle tab. Ground run for operational and leak check normal.

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

Robert Kulp
AP3593428IA



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



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

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
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Date: 4/05/2018; Aircraft: N715JK; Type: CIRRUS SR22T; S/N: 0637; Hobbs: 804.90; Total Time: 804.90
 Flt: 804.9 Hobbs: 989.9.

Airframe

Replaced left aft sidewall interior panel p/n 29077-004 with new. Serviced TKS fluid reservoirs to full. Serviced oxygen system to 2100 psi.

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

Clifford Sugden
 AP2659994IA 

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



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

Date: 4/05/2018; Aircraft: N715JK; Type: CIRRUS SR22T; S/N: 0637; Hobbs: 804.90; Total Time: 804.90
 Flt: 804.9 Hobbs: 989.9.

Airframe

Replaced right aft sidewall interior panel p/n 29078-004 with new.

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

Nathanael S. Rebigier
 AP3840237 

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



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

MAKE: Cirrus Design Corp
MODEL: SR22T
S/N: 0637
REG. NO: N715JK
WORK ORDER:
4271-05-2018



Classic Aviation, Inc.

501 W 15th St
Pella, IA 50219
Phone: 641-628-9393

DATE: 5/18/2018
A/C TSN: 83
HOBBS: 83

Airframe Entries

(4) Complied with Cirrus SB2X-74-02 "Ignition Switch Security" by applying threadlocker and re-torqing ignition switch. Operational check satisfactory.

DATE: 5/18/2018

SIGNED:

A handwritten signature in black ink that reads "Wm. Haven Hick".

Wm. Haven Hick, IA: 3428785

Work Order: 4271-05-2018

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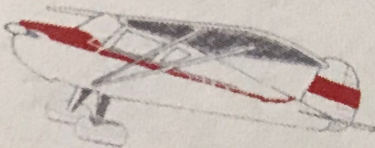
600

AIRCRAFT TIME
IN SERVICE

F.A.R. 43.11-91.409

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

MAKE: Cirrus Design Corp
MODEL: SR22T
S/N: 0637
REG. NO: N715JK
WORK ORDER:
4619-12-2018



Classic Aviation, Inc.

501 W 15th St
Pella, IA 50219
Phone: 641-628-9393

DATE: 12/12/2018
A/C TSN: 897.4
HOBBS: 897.4

Airframe Entries

(1) Annual Inspection. Inspected aircraft in accordance with Cirrus A.M.M. checklist chap 5-20 and performed operational inspection IAW chap 5-30. Checked all controls and cables. Cleaned and greased all wheel bearings, checked brakes. Cleaned fuel strainer and reinstalled with new seals. Serviced and top charged main battery. Inspected intake and exhaust systems. Inspected induction air filters. Checked all applicable AD's and updated list in aircraft records.... (5) Complied with 14 CFR part 91.207 (d) 1 - 4, ELT Corrosion Inspection and ELT Operational Check. No Corrosion noted, ELT Operated Normal. (ELT Battery Due Change Jan / 2020).... (7) Installed new battery #2 batteries (2) P/N 50979-001. Operational check satisfactory.... (8) Installed new TKS filter element P/N 21986-203 with new o-rings (1) P/N AS3582-235 and (2) P/N 15164-094. Operation and leak check satisfactory.... (9) Removed Oxygen Bottle and sent out for Hydroststic Inspection. Updated weight and balance to reflect this temporary change.... (10) Removed fork assembly, cleaned inspected and reassembled using new parts, Thrust Washer P/N 50545-001, Bearing P/N 50544-001, Flanged bearing P/N 50543-001, Large area washer P/N AN970-8, Spindle nut, P/N MS17825-8, and cotter Pin P/N MS17825-8. Installed fork assembly and set Tension using Installation instructions in Cirrus Airplane maintenance Manual 32-20, page 28. Rechecked fork tension after aircraft run up.... (11) Reinstalled upper fairing spacer grommet using double side tape P/N 51042-0050, on Right main gear leg.... (12) Installed new o-rings P/N M83461/1-222, in both left and right brake caliper assemblies. Installed new temperature labels, yellow P/N 51698-003 and blue P/N 51698-001 on Left and right brake caliper housings. Bled both left and right side brakes with 5606 hydraulic fluid as needed.

I certify that this aircraft has been inspected in accordance with an annual inspection and was determined to be in airworthy condition.

DATE: 12/12/2018

SIGNED:

Wm. Haven Hick, IA: 3428785

Work Order: 4619-12-2018

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