

Weight and Balance Loading Form

• Note •

For Center of Gravity Envelope, refer to Section 2, Limitations.

The Takeoff Condition Weight must not exceed 3050 lb.

The Takeoff Condition Moment must be within the Minimum Moment to Maximum Moment range at the Takeoff Condition Weight. (Refer to *Moment Limits*).

Serial Num: _____ Date: _____

Reg. Num: _____ Initials: _____

Item	Description	Weight LB	Moment/ 1000
1.	Basic Empty Weight <i>Includes unusable fuel & full oil</i>	2136.62	301643
2.	Front Seat Occupants <i>Pilot & Passenger (total)</i>	360	51460
3.	Rear Seat Occupants	20	2870 3600
4.	Baggage Area <i>130 lb maximum</i>	10	2080
5.	Zero Fuel Condition Weight <i>Sub total item 1 thru 4</i>	2526.62	358983
6.	Fuel Loading <i>56 Gallon @ 6.0 lb/gal. Maximum</i>	336	52050
7.	Ramp Condition Weight <i>Sub total item 5 and 6</i>	2862.62	411033
8.	Fuel for start, taxi, and run-up <i>Normally 9 lb at average moment of 922.8.</i>	-9	-922.8
9.	Takeoff Condition Weight <i>Subtract item 8 from item 7</i>	2853.62	410110.2

3600

142
CG

143.6
CG

143.7 CG

Figure 6-1

N583PU

s/n: 2043

**Aircraft Maintenance
Records**

1. Approving Civil Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: CDC 08201929-01	
4. Organization Name and Address: Cirrus Design Corporation 4515 Taylor Circle Duluth, MN 55811 PC#338CE					5. Work Order/Contract/Invoice #: 668350	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:	
1	PACKED PARACHUTE ASSEMBLY, SR 22	25574-004-REB	1	03908R1	See Block 12	
12. Remarks: Rebuilt to original PAH's Specifications. The work identified above has been accomplished in accordance with the requirements of 14 CFR 43.2(b) and 14 CFR 43.3(j). This product has been rebuilt in accordance with Cirrus Design Corporation process specification 90814. Process Specification 90814 is FAA approved under Type Certificate A00009CH. Expiration: 27/August/2029 Assembly being shipped less the Line Cutters to meet shipping requirements. Part #26707-001						
13a. Certifies the items identified above were manufactured in conformity to: <input 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 checked="" 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:		13c. Approval/Authorization No.:		14b. Authorized Signature:		14c. Approval/Certificate No.:
						PC # 338CE
13d. Name (Typed or Printed):		13e. Date (dd/mm/yyyy):		14d. Name (Typed or Printed):		14e. Date (dd/mm/yyyy):
				VA HUABMUA VANG		29/AUG/2019
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.						

Vision Air Center
103 Sinclair Drive
Muskegon, MI 49441

Reg # : N583PU
A/C Make: Cirrus
A/C Model: SR20
A/C S/N: 2043

	<u>Weight</u>	<u>Arm</u>	<u>Moment/1000</u>
Previous A/C Empty Weight:	2132.10	141.15	300940.170

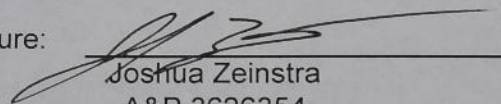
Installed Items

New rocket and shelf assembly	1.34	231.4	310.076
additional weight	.78	116.0	90.48
SB2x-95-19R2 Wiring modification	0.10	116.0	11.6
SB2X-95-24R2 Wiring modification			

New A/C Empty Weight	2134.22	141.20	301352.326
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Gross Weight: 3050.00
New A/C E.W.: 2134.22
New A/C C.G.: 141.20
New A/C Moment/1000: 301,352.326
Useful Load: 915.78

Date: 11-6-19

Signature: 

Joshua Zeinstra
A&P 3626354

1. Approving Civil Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: 556314					
4. Organization Name and Address Continental Motors, Inc. 2039 Broad Street, Mobile, Alabama 36615				PC #508	5. Work Order/Contract/Invoice Number: 711891 0000278296					
6. Item:	7. Description	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:					
1	ENGINE - REBUILT	IO360ES25	1	See Block 12	See Block 12					
12. Remarks: Rebuilt to original PAH's specifications in accordance with 14 CFR §43.3(j). Total Time: 0 Preservation: This Engine was treated 08/07/19 for one hundred eighty days corrosion protection. Serial/ Batch Number(s): <table border="0"> <tr> <td>Serial</td> <td>Description</td> </tr> <tr> <td>1037965</td> <td>ENGINE - REBUILT</td> </tr> </table>							Serial	Description	1037965	ENGINE - REBUILT
Serial	Description									
1037965	ENGINE - REBUILT									
13a. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in 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 checked="" 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:		13c. Approval/Authorization No.:	14b. Authorized Signature: <i>Richard Denny</i>		14c. Approval/Certificate No.: PC #508					
13d. Name (Typed or Printed):		13e. Date (dd/mm/yyyy):	14d. Name (Typed or Printed): Richard Denny		14e. Date (dd/mm/yyyy): 28/Aug/2019					
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.										

Customer Copy



Form No. QA-85A
(Rev Sept 2014)

Continental Motors Engine Component Information Sheet

Printed: 08/07/2019

Serial: 1037965
Spec: I0360ES25B

New/Rebuilt: (REBUILT)

Assembled: 08/01/2019

Shipped: / /

Packed: 08/07/2019

Customer Name: AIR POWER, INC

Shipping Address: 4900 SOUTH COLLINS

Component	Serial Number	Component	Serial Number
CAMSHAFT	408508	OIL COOLER	F19-15430-123
CRANKSHAFT	N18LA100	CYLINDER-1	AC19AC397
CRANKCASE	S12FA071	CYLINDER - 2	AC19DB159
CONNROD	AE05JA617	CYLINDER - 3	AC19EA604
CONNROD	AE15DA539	CYLINDER - 4	AC19EB914
CONNROD	AE19GA404	CYLINDER - 5	AC19DB157
CONNROD	AE19GA382	CYLINDER - 6	AC19DB193
CONNROD	AE10DA257	NOZZLE - 1	1173
CONNROD	AE08FC266	NOZZLE - 2	2180
L MAGNETO	D19FA349R	NOZZLE - 3	3183
R MAGNETO	D19FA344R	NOZZLE - 4	4178
FUEL PUMP	B19FA160R	NOZZLE - 5	5178
MANIFOLD VALVE	C19FA001R	NOZZLE - 6	6175
METERING UNIT	A19EA138R		
STARTER	H-T-241951		
ALTERNATOR	H-T043266		

#2

DH #1: H.S. 42258

Pack Inspection Stamp

All of the information provided herein is subject to verification by the user.
Continental Motors, Inc. makes no representation or warranty concerning the accuracy or completeness of the information and assumes no responsibility with respect thereto.

Aircraft Engine Test Verification


This document verifies that the engine model listed below has satisfactorily completed all testing listed below in accordance with CM standard engine testing specifications as approved by the FAA.

Engine Model R-10360ES25B

Engine Serial Number 1037965

Testing Completed

Standard Acceptance Test:

Date of Completion 8-5-19 Test Operator 



Continental Motors, Inc.

Form No 98344

Warranty Information

This product is covered by Continental Motors Group product warranty. To read or download a copy for your records, please visit the Product Warranty page on the Continental Motors web site at:

http://continentalmotors.aero/Factory_Services/Product_Warranty/

For complete access to the engine Instructions for Continued Airworthiness, Illustrated Parts Catalogs, Service Documents, Technical Briefs, company news, and upcoming events, please take a few moments to register your engine model and serial number:

<http://www.continentalmotors.aero/services/owner-registration.aspx>





Continental Motors, Inc.

THE OIL PRESSURE ON THIS ENGINE WAS
ADJUSTED DURING THE ENGINE ACCEPTANCE
TEST AT THE FACTORY. ONLY MINOR
ADJUSTMENTS MAY BE NECESSARY TO
ASSURE THE PROPER INDICATION ON
THE COCKPIT GAUGE.

FACTORY SETTINGS:

PM 2854 OIL TEMP 180 OIL PRESSURE 55.1

PRESSURE PICK UP POINT: MAIN OIL GALLERY
BETWEEN #2 AND #4 CYLINDERS

18 MAY '10 03:41PM
INVR6034.1 KHEIKKILA

Serial Number Explosion Level
Avante 9.2.5i CIRRUS LIVE DATABASE

N583PU

Page 1

Serial Nbr 20-2043
Item Number SR2XB-5670.1

SR2X REV B CONFIGURATION

Status	Trans Date	Cust/supplier	Order	Warehouse	Bin	Lot Number
1 In-House	05/14/10			01	FG	570411

Level	Component Serial Nbr	Item Number	Component Description	Rev	Status
1	20-2043	SR2XB-5670.1	SR2X REV B CONFIGURATION	1	1 In-House
2	20-2043	C-BLS-2XB-5670.1	BOLSTER PLT CNFG, SR2X	1	3 Consumed in WIP
3	20-2043	12727-003	AIRSPED INDICATOR....SN	C	3 Consumed in WIP
3	T51979	12731-003	ALTIMETER INDICATOR	C	3 Consumed in WIP
3	478684	C-BUFF-2XB-5670.1	BUFF, ASSY CONFIG SR2	1	3 Consumed in WIP
2	20-2043	C-CEN-2XB-5670.1	CONFIG FUEL SELECTOR	1	3 Consumed in WIP
2	20-2043	12615-003	GAUGE, FUEL QTY IND.--S/N	D	3 Consumed in WIP
3	0208	C-COA-2XB-5670.1	DETAIL, C OF A CONFIG	1	3 Consumed in WIP
2	20-2043	R09969	AIRCRAFT COMPLETE	B	3 Consumed in WIP
3	20-2043	R09990	INSTALLATION PANEL	A	3 Consumed in WIP
3	20-2043	R09993	INSTALLATION DUKES BOOST	A	4 In-WIP
3	20-2044	R09995	AIRCRAFT COMPLETE MODEL	A	3 Consumed in WIP
3	20-2043	R10001	W1243 WIRE NARNESS NAV	A	4 In-WIP
3	22-2043	R10038	TRANSPONDER MODIFICATION	A	3 Consumed in WIP
3	20-2043	R9888	ADD PROTECT FILM TO FLAP	E	3 Consumed in WIP
3	20-2043	C-DRS-2XB-5670.1	DOORS, COWLND AND PARACHUT	1	3 Consumed in WIP
2	20-2043	21814-001	ROCKET MOTOR ASSY...SN	C	3 Consumed in WIP
3	4878	C-ENC-2XB-5670.1	ENGINE CONNECT AND RIG	1	3 Consumed in WIP
2	20-2043	ENG-20B	ENGINE SR20 FIGHTER	A	3 Consumed in WIP
3	20-2043	12010-006	ENGINE	F	3 Consumed in WIP
4	1002047	15524-001	PROP GOVERNOR ASSY...S/N	A	3 Consumed in WIP
4	081297	18640-001	FRAME, ENGINE MOUNT	D	3 Consumed in WIP
4	0163	NLG-20B	NLG ASSY, SR20B	A	3 Consumed in WIP
4	20-2043	18101-004	ASSY, NOSE LANDING GEAR	F	3 Consumed in WIP
5	1684	C-ENG-20B-5670.1	ENGINE CNFG SR2X	1	3 Consumed in WIP
2	20-2043	23623-001	ENGING, PRE-HEATER, 110 V	B	3 Consumed in WIP
3	43845	C-EXT-2XB-5670.1	EXTERIOR PAINT CONFIG SR2	1	3 Consumed in WIP
2	20-2043	C-FBW-2XB-5670.0	FUSELAGE BODY WORK	0	3 Consumed in WIP
2	20-2043	C-FCL-2XB-5670.0	FUSELAGE CLOSE CNFG SR2X	0	3 Consumed in WIP
2	20-2043	C-FCR-2XB-5670.1	FLIGHT CONTROL RIGGING CO	1	3 Consumed in WIP
2	20-2043	16875-003	AILERON ASSY, LH-----S/N	C	3 Consumed in WIP
3	0014	16875-004	AILERON ASSY, RH-----S/N	C	3 Consumed in WIP
3	0015	19661-001	ELEVATOR ASSY, LH	B	3 Consumed in WIP
3	3505	19661-002	ELEVATOR ASSY, RH	B	3 Consumed in WIP
3	3504	C-FLB-2XB-5670.0	FUSELAGE FLOOR BOND	0	3 Consumed in WIP
2	20-2043	C-FRG-2XB-5670.0	FUSELAGE FAIRINGS AND ICE	0	3 Consumed in WIP
2	20-2043	C-FTD-2XB-5670.0	FLOOR/FUSE CLS STRUCT T/D	0	3 Consumed in WIP
2	20-2043	C-FTR-2XB-5670.1	CONSOLE CNFG SR2X	1	3 Consumed in WIP
3	90943	24660-002	CO DETECTOR	C	3 Consumed in WIP
2	20-2043	C-FWL-2XB-5670.1	CONFIG FWL SR2X	1	3 Consumed in WIP
3	14Q001401	24640-001	WIRELESS TRANSCEIVER,	A	3 Consumed in WIP
2	20-2043	C-GDL-2XB-5670.1	GARMIN DATA LOAD	1	3 Consumed in WIP
3	20608259	24651-001	AIR DATA COMPUTER,	C	3 Consumed in WIP
3	193005254	24654-002	FMS CONTROLLER,	E	3 Consumed in WIP
3	15G055000	24655-011	FLIGHT DISPLAY, GDU	H	3 Consumed in WIP
3	15F055304	24655-012	FLIGHT DISPLAY, GDU	H	3 Consumed in WIP
3	15H005689	24656-003	AUDIO PANEL, GMA347	A	3 Consumed in WIP
3	47762893	24657-002	GDL 69A XM WEATHER/	D	3 Consumed in WIP
3	42014328	24661-003	AHRS UNIT, GRS77	F	3 Consumed in WIP
3	15W011625	24662-001	INTERGRATED AVIONICS	C	3 Consumed in WIP
3	15W011627	24662-001	INTERGRATED AVIONICS	C	3 Consumed in WIP
3	46709658	24666-001	ENGINE INTERFACE, GEA	D	3 Consumed in WIP
2	20-2043	C-HB-2XB-5670.0	HINGES AND BH CNFG 2XB	0	3 Consumed in WIP
2	20-2043	C-HC-2XB-5670.0	HARDWARE AND CONDUIT CNFG	0	3 Consumed in WIP

10 03:41PM
6034.1 KHEIKKILA

Serial Number Explosion Level
Avante 9.2.5i CIRRRUS LIVE DATABASE

Page 2

Serial Nbr 20-2043
Item Number SR2XB-5670.1

SR2X REV B CONFIGURATION

Status	Trans Date	Cust/supplier	Order	Warehouse	Bin	Lot Number
1 In-House	05/14/10			01	FG	570411
Level	Component	Serial Nbr	Item Number	Component Description	Rev	Status
.2	20-2043		C-HDW-2XB-5670.0	FLOOR/HARDWARE CNFG SR2X	0	Consumed in WIP
.2	20-2043		C-HRZ-2XB-5670.1	CONFIG HRZ SR2X	1	Consumed in WIP
.3	20-2043		14120-002	HORIZONTAL STABILIZER,	G	Consumed in WIP
.2	20-2043		C-ICE-2XB-5670.1	ICE SYSTEM INSTALL CNFG S	1	Consumed in WIP
.2	20-2043		C-INS-20B-5670.1	INSTRUMENT PANEL CNFG	1	Consumed in WIP
.2	20-2043		C-LE-2XB-5670.0	LEADING EDGE CNFG SR2X	0	Consumed in WIP
.2	20-2043		C-LWR-2XB-5670.0	LWR WING SKIN CLOSE CNFG	0	Consumed in WIP
.2	20-2043		C-MLG-2XB-5670.0	WING MLG CNFG SR2X	0	Consumed in WIP
.2	20-2043		C-NLG-20B-5670.1	NLG CNFG SR2X	1	Consumed in WIP
.2	20-2043		C-OPS-2XB-5670.1	PURGE,AVIONICS CKS CONFIG	1	Consumed in WIP
.3	197-02921		17190-005	406 MHZ ELT	G	Consumed in WIP
.3	20-2043		19266-002	MAGNETOMETER ASSY	B	Consumed in WIP
.4	47515983		24650-001	MAGNETOMETER, GMU 44	C	Consumed in WIP
.2	20-2043		C-PRE-2XB-5670.1	PRE-ASS'Y CNFG SR2X	1	Consumed in WIP
.3	00786		19799-020	MCU140 ASSEMBLY	D	Consumed in WIP
.3	20-2043		FTR-2XB	FIGHTER CONSOLE	A9	Consumed in WIP
.4	20-2043		CEN-2XB	FIGHTER CENTER	A1	Consumed in WIP
.5	5135		17921-001	FUEL SELECTOR VALVE,	B	Consumed in WIP
.2	20-2043		C-SFP-2XB-5670.1	RUN, SFP, FLIGHT CONFIG	1	Consumed in WIP
.3	EF480B		14680-002	PROPELLER/MOUNTING	B	Consumed in WIP
.2	20-2043		C-TBU-2XB-5670.0	T-BOX TO UPPER CNFG SR2XB	0	Consumed in WIP
.2	20-2043		C-TNK-2XB-5670.0	TANK SEAL CNFG SR2XB	0	Consumed in WIP
.2	20-2043		C-UPH-2XB-5670.1	INTERIOR AND UPHOLSTERY	1	Consumed in WIP
.3	20-2043		INS-20B	INSTRMT PNL ASSY 10 IN	A	Consumed in WIP
.2	20-2043		C-WDW-2XB-5670.1	WINDOW CNFG SR2X	1	Consumed in WIP
.2	20-2043		C-WING-2XB-5670.1	WING HANG CNFG 2XB	1	Consumed in WIP
.3	20-2043		MLG-2XB	WING W/MLG, SR2XB	A	Consumed in WIP
.4	20-2043		WBW-2XB	WING BODY WORK SR2XB	A	Consumed in WIP
.5	20-2043		LE-2XB	LEADING EDGE AND LIGHTN	A	Consumed in WIP
.6	20-2043		TNK-2XB	T/D AND TANK SEAL	A	Consumed in WIP
.7	20-2043		LWR-2XB	WING STRUCTURAL CLOSE,	A	Consumed in WIP
.8	20-2043		HC-2XB	HARDWARE AND CONDUIT	A	Consumed in WIP
.9	20-2043		HB-2XB	HINGES AND BULKHEADS	A	Consumed in WIP
.10	20-2043		TBU-2XB	TORQUE BOX, UPPER,	A	Consumed in WIP
.11	109222		24828-401	WASH, MAIN WING	A	Consumed in WIP
.12	109222		24828-001	MAIN WING SPAR,CARBON	A	Consumed in WIP
.2	20-2043		COA-2XB	DETAIL, C OF A	A	Consumed in WIP
.3	20-2043		SFP-2XB	RUN, SFP, FLIGHT	A	Consumed in WIP
.4	20-2043		UPH-2XB	INTERIOR & UPHOLSTERY	A1	Consumed in WIP
.5	20-2043		OPS-2XB	PURGE, AVIONICS CHECKS	A1	Consumed in WIP
.6	20-2043		ENC-2XB	ENGINE CONNECT AND RIG,	A	Consumed in WIP
.7	20-2043		BLS-2XB	BOLSTER PANEL, STANDARD	A	Consumed in WIP
.7	20-2043		FCR-2XB	FLIGHT CONTROL RIGGING	A	Consumed in WIP
.8	1565		16891-001	FLAP ASSY, LEFT	B	Consumed in WIP
.8	1552		16891-002	FLAP ASSY, RIGHT	B	Consumed in WIP
.8	2523		20365-403	RUDDER ASSY	A	Consumed in WIP
.8	20-2043		BUFF-2XB	BUFF, ASSY	A1	Consumed in WIP
.9	20-2043		EXT-2XB	EXTERIOR PAINT	A	Consumed in WIP
.10	20-2043		DRS-2XB	DOOR, COWL, AND PARACHUTE	A2	Consumed in WIP
.11	4095		20331-001	PARACHUTE, SR22 ...S/N	E	Consumed in WIP
.11	4095		21814-003	ACTIVATION ASSEMBLY....SN	C	Consumed in WIP
.11	20-2043		WDW-2XB	WINDOW INSTALL	A	Consumed in WIP
.12	20-2043		WING-2XB	WING HANG	A	Consumed in WIP
.13	20-2043		ICE-2XB	ICE SYSTEM INSTALL, SR2XB	A	Consumed in WIP

10 03:41PM
R6034.1 KHEIKKILA

Serial Number Explosion Level
Avante 9.2.5i CIRRUS LIVE DATABASE

Serial Nbr 20-2043
Item Number SR2XB-5670.1

SR2X REV B CONFIGURATION

Status		Trans Date	Cust/supplier	Order	Warehouse	Bin	Lot Number
1 In-House		05/14/10			01	FG	570411
Level	Component Serial Nbr	Item Number	Component Description	Rev	Status		
.....14	20-2043	PRE-2XB	PRE ASSEMBLY, SR2XB	A1	3	Consumed in WIP	
.....15	20-2043	FWL-2XB	FIREWALL BUILD-UP	A	3	Consumed in WIP	
.....16	A18AUG09-267	20902-001	ELECTRONIC MODULE	A	3	Consumed in WIP	
.....16	20-2043	HRZ-2XB	HORIZONTAL INSTALL	A	3	Consumed in WIP	
.....17	20-2043	FRG-2XB	FAIRINGS, DORSAL AND POST	A	3	Consumed in WIP	
.....17	20-2043	FTD-2XB	FUSELAGE TRIM AND DRILL	A	3	Consumed in WIP	
.....18	20-2043	FCL-2XB	FUSELAGE CLS STRUCT	A	3	Consumed in WIP	
.....19	20-2043	HDW-2XB	FUSELAGE FLOOR HARDWARE	A	3	Consumed in WIP	
.....20	20-2043	FLB-2XB	FLOOR/FUSE STRUCT	A	3	Consumed in WIP	
.....21	20-2043						

FIELD REPAIR / ALTERATION

Release To: Cirrus Approved - Revision: A.3
Release Date: 2012-05-30 12:32:20 CDTCIRRUS DESIGN CORPORATION
4515 Taylor Circle, Duluth, MN 55811 (218)-788-3185

AUTHOR: DAVID L. JOHNSON		CHANGE CLASS: Minor Change	REPAIR # R10637
SUBJECT: DAMAGE TO FS222 BULKHEAD		REASONS AND REMARKS: DURING INSTALL OF THE ALAKA'I WIRELESS DATA LINK SYSTEM THE FS222 BULKHEAD WAS DAMAGED.	Models Affected
		REFERENCE FSR 1201	ASN# Impacted
DOCUMENT TYPE: SELECT			SR20 2039, 2041-2047, 2049-2054
Items Affected by Repair/Alteration	REVISION	DESCRIPTION/TITLE	n/a
19340-001	A	FS222 BULKHEAD	n/a

NOTICE: THE REPAIRS HEREIN ARE PROVIDED SPECIFIC TO DAMAGE REPORTED TO CIRRUS AIRCRAFT. OTHER DAMAGE MAY BE PRESENT AND IT IS THE RESPONSIBILITY OF THE MAINTENANCE PERSONNEL OR ORGANIZATION TO ASSESS ANY ADDITIONAL DAMAGE AND REPLACE DISCREPANT PART(S). KNOWN DAMAGED PARTS WHICH CAN BE REPLACED IN ACCORDANCE WITH APPROVED METHODS SHOULD BE ADDRESSED AND MAY NOT BE ADDRESSED SPECIFICALLY IN THIS REPAIR.

REPAIR INSTRUCTIONS: SUMMARY

1. GENERAL REQUIREMENTS.
 - A. >>> CAUTION: READ REPAIR INSTRUCTIONS COMPLETELY AND THOROUGHLY BEFORE ATTEMPTING ACCOMPLISHMENT OF THIS REPAIR.
 - B. FOLLOW PRACTICES DEFINED IN DOCUMENT 12137-001, "SR20 AIRPLANE MAINTENANCE MANUAL" (AMM), CHAPTER 51 UNLESS NOTED.
 - C. TAKE EXTREME CARE TO PREVENT ADDITIONAL DAMAGE TO THE STRUCTURE.
2. DAMAGE REMOVAL
3. PRECURE PATCH FABRICATION
4. PRECURE PATCH INSTALLATION

REPAIR INSTRUCTIONS: DAMAGE REMOVAL

1. SAND AFFECTED AREA TO REMOVAL ALL LOOSE OR DAMAGE FIBERS.
2. TAKE CARE NOT TO DAMAGE ADDITIONAL PLIES DURING THIS PROCESS.

REPAIR INSTRUCTIONS: PRECURE PATCH FABRICATION

1. FABRICATE THREE (3) PLY PRECURE PATCH, SEE FIGURE 1.
 - A. FABRICATE FROM 52005-003, "SHIM, STOCK, PRECURE, QUASI-ISO".
 - B. SIZE AND SHAPE PATCH TO OVERLAP DAMAGE BY A MIN OF 1.5" AND EXTEND 0.5" BEYOND ALAKA'I BACKING PLATE.
 - C. LOCATE AND DRILL FASTENER CLEARANCE HOLES.
 - D. BEVEL ALL EDGES 30°.
 - E. ALIGN 0° ORIENTATION OF PRECURE PATCH WITH 0° OF ROSETTE.

Cirrus Design Approval – This document has been approved in accordance with FAA approved procedure meeting the requirements defined in 14 CFR Part 21. This document was processed through an electronic release system. All approval signatures are stored electronically in the Cirrus Product Data Management (PDM) System. The approval state appearing in the watermark at the top of this document is evidence the appropriate closed loop approval workflow process was used and is traceable in the Cirrus PDM database.

REPAIR / ALTERATION

CDC Document Control Field Repair/Alteration Released
Release To: Cirrus Approved - Revision: A.3
Release Date: 2012-05-30 12:32:20 CDT

CIRRUS DESIGN CORPORATION
4515 Taylor Circle, Duluth, MN 55811 (218)-788-3185

REPAIR# R10637

REPAIR INSTRUCTIONS: PRECURE PATCH FABRICATION

1. PREPARE FAYING SURFACES FOR BONDING REPAIR PATCH PER AMM 51-20, "REPAIR SURFACE PREPARATION."
 - A. PREPARE THE TOOLSIDE FACESHEET OF THE FS222 BULKHEAD IN THE AREA TO WHICH THE PRECURE PATCH WILL BE BONDED.
 - B. PREPARE THE FAYING SURFACE OF THE PRECURE PATCH.
 - C. PREPARE AREAS LARGER THAN THE AREAS TO BE BONDED TO ENSURE PROPER ADHESION.
2. BOND PRECURE PATCH INTO POSITION.
 - A. USE STRUCTURAL ADHESIVE PER AMM 51-30 (PTM&W ES6292-A/B).
 - B. MIX ADHESIVE PER AMM 51-30, "STRUCTURAL REPAIR SYSTEMS."
 - C. APPLY ADHESIVE PER 51-20, "REPAIR PROCESSES."
 - D. ACHIEVE BOND THICKNESS OF 0.005" MINIMUM AND 0.060" MAXIMUM.
 - E. SECURE PRECURE PATCH IN POSITION WITH FIXTURING AS REQUIRED, PREVENTING MOVEMENT DURING CURE.

NOTE: MOVEMENT DURING CURE MAY CAUSE BOND VOIDS. ONCE THE REPAIR SECTION IS POSITIONED AND ADHESIVE SQUEEZE OUT IS ACHIEVED, IF THE REPAIR SECTION IS PULLED AWAY FROM THE STRUCTURE OR OTHERWISE MOVED, VOIDS WILL FORM.
3. CURE PRECURE PATCH BOND.
 - A. CURE PER AMM 51-20, FIGURE 51-2011.

DAMAGE

5. 100% TYPICAL

FIGURE 1

PRECURE PATCH INSTALLATION

VIEW LOOKING AWAY AT FORWARD FACE OF PATCH BULKHEAD

HTS

REPAIR / ALTERATION

CDC Document Control Field Repair/Alteration Released
Release To: Cirrus Approved - Revision: A.3
Release Date: 2012-05-30 12:32:20 CDT

CIRRUS DESIGN CORPORATION
4515 Taylor Circle, Duluth, MN 55811 (218)-788-3185

REPAIR# R10637

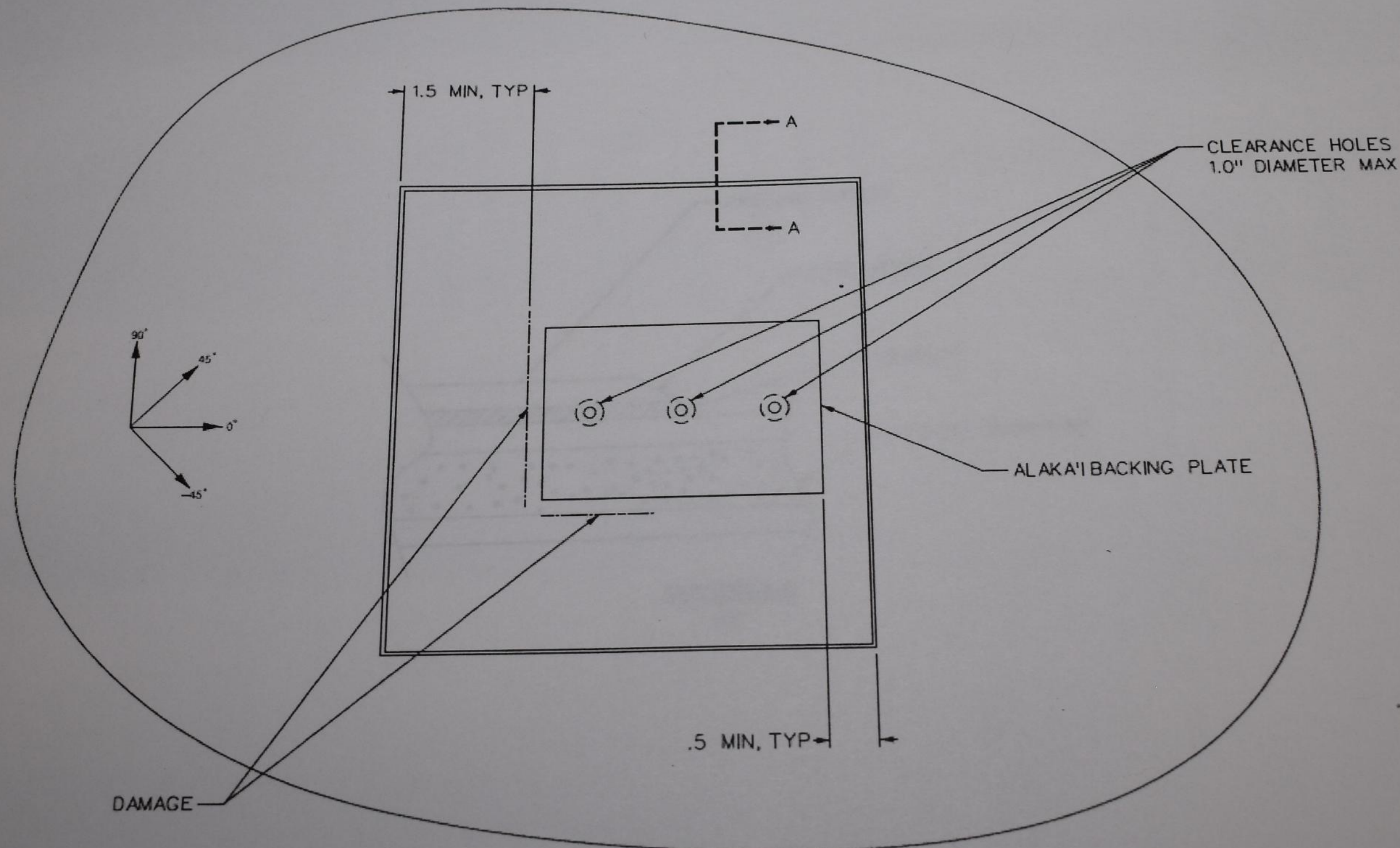


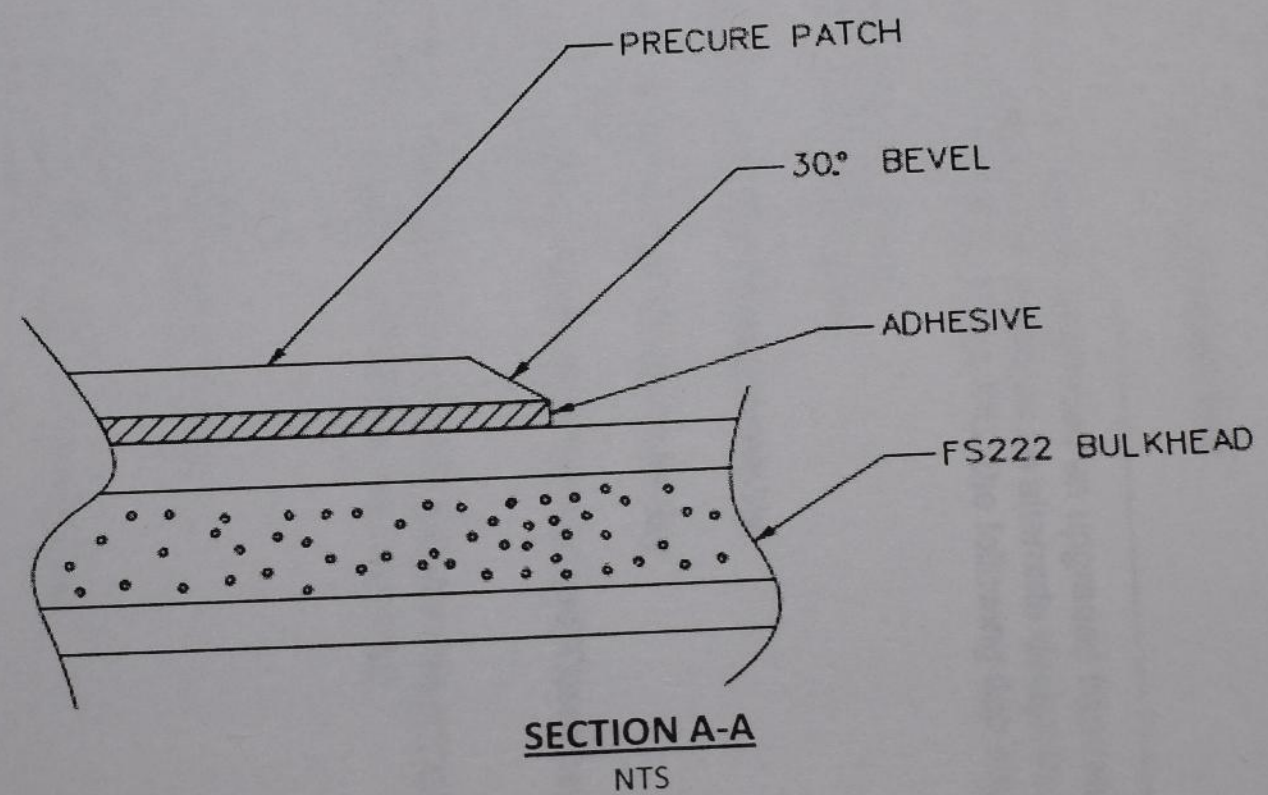
FIGURE 1
PRECURE PATCH INSTALLATION
VIEW LOOKING AFT AT FORWARD FACE OF FS222 BULKHEAD
NTS

REPAIR / ALTERATION

CDC Document Control Field Repair/Alteration Released
Release To: Cirrus Approved - Revision: A.3
Release Date: 2012-05-30 12:32:20 CDT

CIRRUS DESIGN CORPORATION
4515 Taylor Circle, Duluth, MN 55811 (218)-788-3185

REPAIR# R10637





MEMORANDUM

To: Purdue University
Aviation Technology
1581 Aviation Drive
West Lafayette, IN 47907

From: Christopher Mitchell, Executive Director, Quality & Airworthiness

Date: 9 November 2012

Re: Flap Relay Replacement Part

Cirrus Design has recently introduced an upgraded flap relay for use on the model SR20 that will be released to the public as an alternate design in the Illustrated Parts Catalog (IPC). At the next revision to the IPC, the following flap relays:

50288-001, Relay, Flap Up
50288-001, Relay, Flap Down

Will be replaced by the following assembly:

29409-001, Electronic Flap Relay Assembly

This single alternate combines both the 'Up' and 'Down' relays into a single unit as a direct replacement.

The installation instructions found in the SR20 AMM (CDC doc 12137-001), chapter 27-50, paragraph F, can be used for the new assembly.

Sincerely,

Christopher Mitchell
Executive Director, Quality & Airworthiness
Cirrus Design Corporation
218.788.3355 Office
218.393.9659 Mobile



SKANDIA

5000 N. Highway 251 ■ Davis Junction, IL 61020
815.393.4600 ■ 800.945.7135
www.SkandiaInc.com

RL: 11977
PO: 9291

Aircraft:
Stock

WO #: 175976-08
Date: 01/31/08
Test Plan #:
PO #: MPO2310

S/N:
N/A

HORIZONTAL FLAMMABILITY TEST RESULTS
14 CFR Part 23.853 (a) Amdt 23-49 Appendix F (e)

Conditioning Room: Time In: 01/30/08 9:00AM Time Out: 01/31/08 11:39AM

Specimen: G & T Global Product Solutions: Ultra SS 302, Cirrus Dove Grey, 081763, Lot #99167

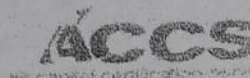
Specimen	Flame Application (Seconds)	Flame Time (Minutes)	Burn Length (Inches)	Burn Rate (Inch/Min)
#1	15	3.6	8.9	2.5
#2	15	3.6	10.5	2.9
#3	15	2.4	8.7	3.6
Average:		3.2	9.4	3.0

Comments:

Horizontal (15 sec.) Burn Test: Average Burn Rate Per Minute may not exceed 4.0".

Passed: Yes ☒ No ☐

Signed: Carin Demus
Carin Demus



1910 Northern, Wichita, KS 67216
Telephone: 316-524-4481
FAX: 316-524-4455

MA13376
PO#11681

Flammability Lab Report Form

PROPOSAL

Flammability Lab Report No: FLR-0311 Rev. IR Date: July 24, 2012
Aircraft Model and S/N: N/A FAA Project No.: N/A
Purchase Order Number: 1440-1 Project Description: Quality Verification Test
Specimen Definition:
301432 FlightFloor / Vinyl Flooring / Black / LOT 3226526

Weave Direction ☐ Warp ☐ Fill ☐ Both ☒ N/A

Test Specimen Thickness (when applicable): 0.07

Test Requirement: (Per ACCS-1200, Section 7 and as follows:)

ACCS-1200, Sect. 7.2.2 - 12-sec. vertical (14 CFR Part 25, App. F, Part 1, Sect. (a)(1)(ii))

Comments: Customer Requirement per P.O. Notes:

14 CFR 25.853, App. F, Part 1, Sect. (a)(1)(ii)

RESULTS

Test Location: 1910 Northern, Wichita, KS 67216

Specimen Conditioning Date: July 23, 2012

Flame Height Verified to 1.5" ☒ Yes

Specimen Conditioning Time In: 2:00 PM

Flame Temperature Verified to 1550°F (843°C) ☒ Yes

Test Date: July 24, 2012

Methane Head Pressure to Burner Inlet Verified to 2.5 ± 0.10 psig. : ☒ Yes

Test Time: 4:52 PM

Conditioning Humidity & Temperature: 50% and 21.1 degree C

Cognizant DER: *Bill Ly*

Test Type:

☒ Vertical - 12 Second ☐ Horizontal 2.5 inch/minute
☐ Vertical - 60 Second ☐ Horizontal 4.0 inch/minute ☐ 45 Degree

Specimen Number	Flame Time (sec)	Burn Length (in)	Drip Time (sec)	Burn Rate (in/min)	Penetration	Glow Time	Pass/Fail
Specimen #1	0.0	2.3	0.0				Pass <input checked="" type="checkbox"/> Fail <input type="checkbox"/>
Specimen #2	0.0	2.0	0.0				Pass <input checked="" type="checkbox"/> Fail <input type="checkbox"/>
Specimen #3	0.0	2.6	0.0				Pass <input checked="" type="checkbox"/> Fail <input type="checkbox"/>
AVERAGE	0.0	2.3	0.0				Pass <input checked="" type="checkbox"/> Fail <input type="checkbox"/>

Comments:

☒ Pass ☐ Fail

Laboratory Technician: James Greer

Stamp:

Date:

Hopkins, Mark A

From: beacon.registration@noaa.gov
Sent: Monday, April 5, 2021 5:08 PM
To: Hopkins, Mark A
Subject: Confirming the Transfer of Your Beacon - ELT - ADCC402DA400315

**NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA)
SEARCH AND RESCUE SATELLITE AIDED TRACKING (SARSAT)**

Beacon ID: ADCC4 02DA4 00315

Thank you for updating the status of your 406 MHz ELT registration. The contact information you provided for the new owner is listed below.

New Owner

Name: STARK CAPITAL LLC

Email:

Phone No.:

Address:
3924 BUTLER SPRINGS WAY
HOOVER, AL 35226

We are contacting the new owner to encourage them to properly register this beacon and have marked it as "sold/transferred" in our database. After the beacon has been registered by the new owner, it will continue to be listed in your user account as "sold/transferred," but you will no longer receive correspondence from us regarding it.

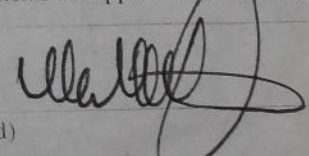
If you have any questions about this matter, please contact us by email or phone.

NOAA SARSAT Beacon Registration Team

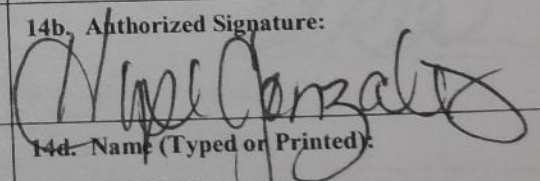
www.beaconregistration.noaa.gov | beacon.registration@noaa.gov

Toll-Free: 1.888.212.7283 (SAVE) | Local: 301.817.4515 | Fax: 301.817.4565

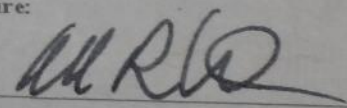
Installed 1583PC @ 4667 hrs.

1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES		AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG		3. Form Tracking Number: SO # 14888002	
4. Organization Name and Address: GARMIN International 1200 E 151st Olathe, KS 66062		Certificate No. G6XR582Y		5. Work Order/Contract/Invoice Number: SO # 14888002	
6. Item: 1.	7. Description: GCU478	8. Part Number: 011-01757-00	9. Quantity: 1	10. Serial Number: 193007148	11. Status/Work: OVERHAULED
12. REMARKS: 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.145.5534". This unit is Newly Overhauled. It has been analyzed, reworked, tested, and conforms to the Newly Overhauled process set forth by Garmin. The work that was performed on this unit was done to meet the requirements of all sections of the maintenance manual part number 190-00364-00 Rev- AU, Revision Date 11/29/2018. Reference: 010-N0669-00 is the Garmin stocking/shipping part number for the 011-01757-00 unit that was processed.					
13a. 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. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input checked="" type="checkbox"/> 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.		
13b. Authorized Signature N / A		13c. Approval/Authorization No.: N / A		14b. Authorized Signature: 	
13d. Name (Typed or Printed) N / A		13e. Date (dd/mm/yyyy) N / A		14c. Approval/Certificate No.: G6XR582Y	
				14d. Name (Typed or Printed) Wathana Syhavong	
				14e. Date (dd/mm/yyyy) 07 Aug 2019	
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.					

N583PW 8/25/16 3099 Hcs

1. Approving Civil Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG		3. Form Tracking Number: 115922-1-HG	
4. Organization Name and Address: AMSAFE, INC 1043 NORTH 47 TH AVE PHOENIX, AZ. 85043		CERT NO. PQ1967NM		5. Work Order/Contract/Invoice Number: 115922-1 0 PAGES ATTACHED	
6. Item: 1		7. Description: EMA ASSY	8. Part Number: 508358-421	9. Quantity: 5	10. Serial Number: SEE BLOCK 12
11. Status/Work: SEE BLOCK 12					
12. Remarks: DRAWING: 508358 REV: AA EXPIRATION DATE: 0823 SERIAL NUMBERS: 1.) RA16AUG16-1, 2.) RA16AUG16-2, 3.) RA16AUG16-3, 4.) RA16AUG16-4, 5.) RA16AUG16-5 OLD SERIAL NUMBERS: 1.) A18AUG09-328, 2.) A18AUG09-318, 3.) A18AUG09-274, 4.) A18AUG09-327, 5.) A18AUG09-339 "REBUILT TO ORIGINAL PAH'S SPECIFICATIONS IN ACCORDANCE WITH 14 CFR 43.3(j)"					
13a. Certifies the items identified above were manufactured in conformity to: <input 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 checked="" 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:		13c. Approval/Authorization No.:		14b. Authorized Signature: 	
13d. Name (Typed or Printed):		13e. Date (dd/mm/yyyy):		14c. Approval/Certificate No.: PQ1967NM	
				14d. Name (Typed or Printed): HOPE GONZALEZ	
				14e. Date (dd/mm/yyyy): 17/AUG/2016	
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.					

** Installed US870A @ 4012 9/19/18 ~~Removed~~ 7/24/19 @ 4456* *Installed US880A @ 4642.1 8-14-19*

1. Approving Civil Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: QAA#WO 038981	
4. Organization Name and Address: Quality Aircraft Accessories, Inc. 1072 NW 53 rd St Fort Lauderdale, FL 33309 Repair Station # 9QFR310C		5. Work Order/Contract/Invoice Number: 038981			6. Status/Work: OVERHAULED	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:	
1	FUEL PUMP	5217-00-3	1	7081	OVERHAULED	
12. Remarks: COMPLETE DETAILS / RECORDS FOR THIS UNIT ARE ON FILE AT THE RESPECTIVE REPAIR STATION AND AVAILABLE ON REQUEST S/B's 0001, 0002, 0003, 0004 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. MANUAL: DUKES MANUAL ROIP 5217-03-3 REV A 20100715 ATP 5217-04-3 REV. A 06/17/04 MECH: AR						
13.a Certifies the items above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.			14.a. <input checked="" 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:			14b. Authorized Signature: 		14c. Approval/Certificate No.: 9QFR310C	
13d. Name (Typed or Printed):			14d. Name (Typed or Printed): Samuel R Sirico		14e. Date (dd/mm/yyyy): 04 JUN 2018	
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 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.						

FAA Form 8130-3 (02-14)

NSN 0012-00-012-9005

Rosen P/N: **R1740000**
Description: CIRRUS SR22 NSA SYSTEM
Customer P/N: N/A
Model: CIRRUS SR22

FAA-PMA
(PQ2393NM)

STC No: SA01285SE

Insp:  Date: **MAR 05 2010**

SERIAL No: M063290

Part Number Rev

18101-004 F
ASSY, NOSE LANDING GEAR

S/N: 22-1996

Receiver RII= N

681837
Whs: 02 Pri Pick Bin

Qty: Suplr: 01*1068
PO # 175929
Rcpt. Dt. 12/04/19 Exp. 12/04/19

1. Approving Civil Aviation Authority/Country: FAA/United States		3. Form Tracking Number: 4005288028	
4. Organization Name and Address: Wilkerson Company, Inc. 206 West Virginia Avenue, Crewe, VA 23930 USA			
5. FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			
6. Item:	7. Description:	8. Part Number:	9. Quantity:
1	Aircraft Tires	156E61-3	1
		10. Serial Number:	11. Status/Work:
		10132431	Overhauled

12. Tire Size 15x6 0-6, Ply Rating 6
Retread Level R1

This tire has been overhauled in accordance with Wilkerson Company's FAA approved Process Specification, as revised, and additional air-carrier specific technical and airworthiness standards that are listed below.
ECRS-32-056

Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input checked="" type="checkbox"/> Non-approved design data specified in Block 12.		14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service 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:	13c. Approval/Authorization No.:	14b. Authorized Signature:	14c. Approval/Certificate No.:
13d. Name (Typed or Printed):	13e. Date (dd/mm/yyyy):	14d. Name (Typed or Printed): tony staylor	14e. Date (dd/mm/yyyy): 10/Mar/2020

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 ensure that higher 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.
FAA Form 8130-3 (02-14)

1. Approving Civil Aviation Authority/Country: FAA/United States		3. Form Tracking Number: 31896342	
4. Organization Name and Address: Wilkerson Company, Inc. 206 West Virginia Avenue, Crewe, VA 23930 USA			
5. FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			
6. Item:	7. Description:	8. Part Number:	9. Quantity:
1	Aircraft Tires	156E66B1	1
		10. Serial Number:	11. Status/Work:
		70505616	Overhauled

12. Tire Size 15x6 0-6, Ply Rating 6
Retread Level R1

This tire has been overhauled in accordance with Wilkerson Company's FAA approved Process Specification, as revised, and additional air-carrier specific technical and airworthiness standards that are listed below.
ECRS-32-056

Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input checked="" type="checkbox"/> Non-approved design data specified in Block 12.		14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service 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:	13c. Approval/Authorization No.:	14b. Authorized Signature:	14c. Approval/Certificate No.:
13d. Name (Typed or Printed):	13e. Date (dd/mm/yyyy):	14d. Name (Typed or Printed): tony staylor	14e. Date (dd/mm/yyyy): 10/Mar/2020

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 ensure that higher 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.
FAA Form 8130-3 (02-14)



ALTS-3800 Computerized Test Report

P/N: 74052-845
S/N: H-S042258
W/O: M306640
Description: ALT, ES4024LP, 28V/ 85A

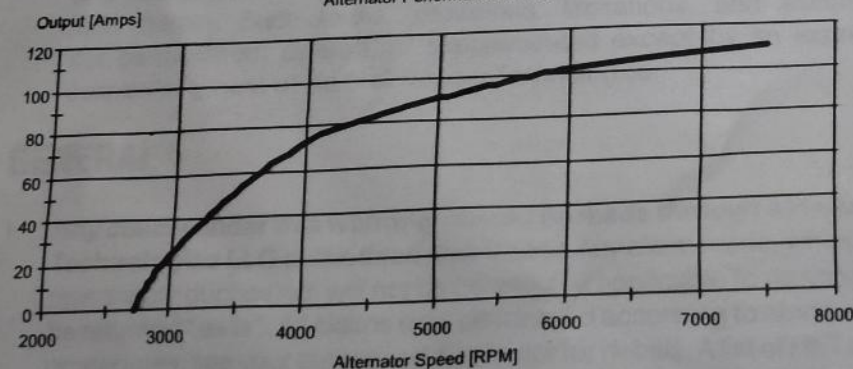
PASS
5/1/2018 7:17

This alternator has an external voltage regulator, SOME PARAMETERS DO NOT APPLY.

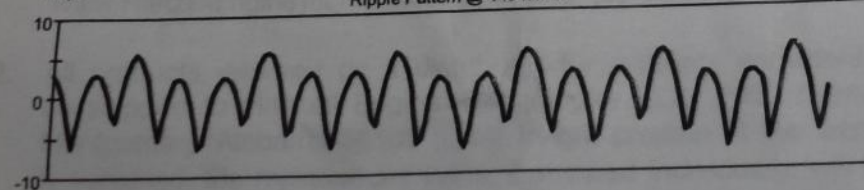
Test Results Table:		Amps	110.2
Maximum Alternator Output:	Watts	2764	
Maximum Output Power:	mAmps	0.0	
Leakage Current	Amps	12.68	
Ripple Current	RPM	2735	
Alternator Turn On Speed	Amps	4.032	
Field Current			

Output Current at 3000 RPM	Amps	36.77
Output Current at 4050 RPM	Amps	74.87
Output Current at 5000 RPM	Amps	92.34
Output Current at 6000 RPM	Amps	101.9
Output Current at 7500 RPM	Amps	110.2
Output Current at 0 RPM	Amps	0.0
Output Current at 0 RPM	Amps	0.0
Output Current at 0 RPM	Amps	0.0

Output Tested @ 25.6 Volts
Alternator Performance Curve



Amps
Ripple Pattern @ 4454RPM



N583PO

9.27.19

ALTT: 4667

Alt 1

N583PU 3.3.20 AFTT: 4963



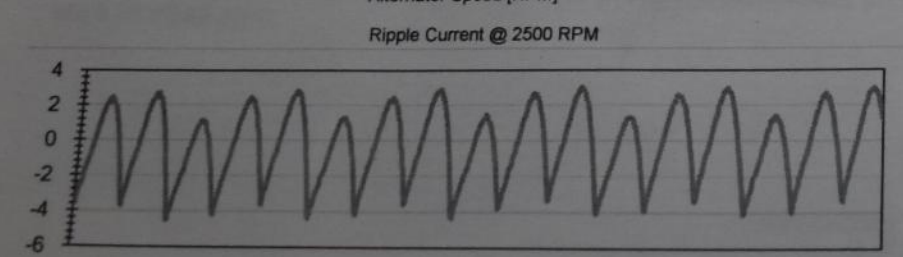
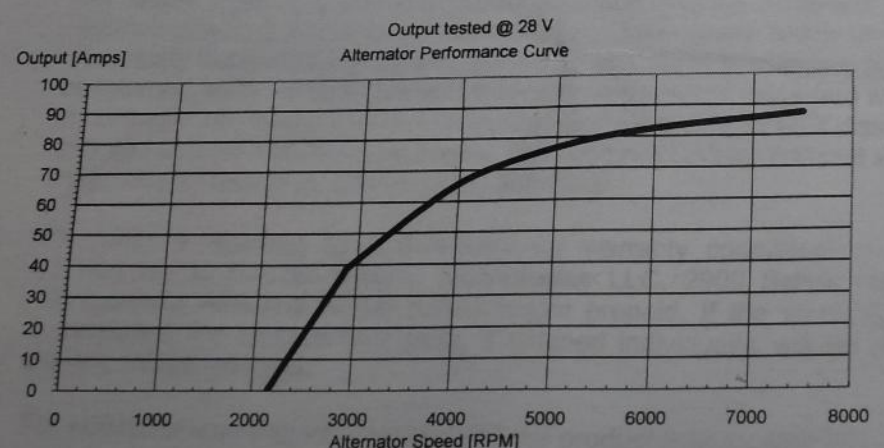
P/N: 74034-845
S/N: H-S112278
W/O: M478730
Description: ALT, 75A, 28V, TCM 653344

Pass
11/29/2018

This alternator has an external voltage regulator. Some parameters do not apply to some units and for informational purposes only.

Test Results Table:		Amps	87.29
Maximum Alternator Output:	Watts	2446	
Maximum Output Power:	mAmps	0.2	
Leakage Current	Amps	8.25	
Ripple Current	RPM	2157	
Alternator Turn On Speed	Amps	4.070	
Field Current			

Output Current at 2800 RPM	Amps	34.21
Output Current at 3000 RPM	Amps	41.67
Output Current at 4000 RPM	Amps	65.81
Output Current at 5000 RPM	Amps	76.78
Output Current at 6000 RPM	Amps	82.48
Output Current at 7500 RPM	Amps	87.29
Output Current at 0 RPM	Amps	0
Output Current at 0 RPM	Amps	0
Output Current at 0 RPM	Amps	0
Output Current at 0 RPM	Amps	0
Output Current at 0 RPM	Amps	0



ALT 2

LLH N583PU 6/19/19 4556 Hrs

AEROSPACE WELDING MINNEAPOLIS, INC.
1045 Gemini Road, Eagan, MN 55121 651-379-9888

179991

FAA Repair Station #UWDR792L

Form 100

Discrepancies Noted:

- | | | |
|--|--|---|
| <input type="checkbox"/> OUTERSHELL | <input type="checkbox"/> BALL JOINT | <input type="checkbox"/> BELLOWS |
| <input type="checkbox"/> OVERBOARD | <input type="checkbox"/> BELL JOINT | <input type="checkbox"/> HEAT FINS |
| <input type="checkbox"/> BAFFLE | <input type="checkbox"/> INLAY | <input checked="" type="checkbox"/> STRAIGHT TUBE |
| <input type="checkbox"/> END PLATE | <input type="checkbox"/> OVERLAY | <input type="checkbox"/> BRACKET |
| <input type="checkbox"/> SHROUD RING | <input type="checkbox"/> INLET EXTENSION | <input type="checkbox"/> BOLT FLANGE |
| <input checked="" type="checkbox"/> BEADED END | <input type="checkbox"/> RISER TUBE | <input type="checkbox"/> TOP TUBE |
| <input type="checkbox"/> TAB | <input type="checkbox"/> FLANGE | <input type="checkbox"/> CRACK WELD |
| <input type="checkbox"/> SHAFT | <input checked="" type="checkbox"/> TAILPIPE | <input type="checkbox"/> SLIP JOINT |
| <input type="checkbox"/> BUTTERFLY | <input type="checkbox"/> FLOW DIVIDER | <input checked="" type="checkbox"/> ELBOW |
| <input type="checkbox"/> CLEAN & INSP. | <input type="checkbox"/> BODY | <input type="checkbox"/> SKIN |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

INSPECTOR'S INITIALS KP

Corrective Action: ITEMS REPLACED OR REPAIRED

- | | | |
|--|--|---|
| <input type="checkbox"/> OUTERSHELL | <input type="checkbox"/> BALL JOINT | <input type="checkbox"/> BELLOWS |
| <input type="checkbox"/> OVERBOARD | <input type="checkbox"/> BELL JOINT | <input type="checkbox"/> HEAT FINS |
| <input type="checkbox"/> BAFFLE | <input type="checkbox"/> INLAY | <input checked="" type="checkbox"/> STRAIGHT TUBE |
| <input type="checkbox"/> END PLATE | <input type="checkbox"/> OVERLAY | <input type="checkbox"/> BRACKET |
| <input type="checkbox"/> SHROUD RING | <input type="checkbox"/> INLET EXTENSION | <input type="checkbox"/> BOLT FLANGE |
| <input checked="" type="checkbox"/> BEADED END | <input type="checkbox"/> RISER TUBE | <input type="checkbox"/> TOP TUBE |
| <input type="checkbox"/> TAB | <input type="checkbox"/> FLANGE | <input type="checkbox"/> CRACK WELD |
| <input type="checkbox"/> SHAFT | <input checked="" type="checkbox"/> TAILPIPE | <input type="checkbox"/> SLIP JOINT |
| <input type="checkbox"/> BUTTERFLY | <input type="checkbox"/> FLOW DIVIDER | <input checked="" type="checkbox"/> ELBOW |
| <input type="checkbox"/> CLEAN & INSP. | <input type="checkbox"/> BODY | <input type="checkbox"/> SKIN |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

INSPECTOR'S INITIALS KP

Material Type

- ☒ 347 SS FILLER ROD
☒ 321 SS
☐ 4130 CHROMALLY
☐ 4130 ROD
☐ INCONEL
☐ INCONEL ROD
☐

Approved Data

- ☒ 43.13-1B
☐ MANUFACTURER'S MANUAL
☐ AIR CARRIER'S MANUAL
☐

NAME PURDUE TECHNOLOGY CENTER	S/N AM N/A	Job: 103082
CITY PURDUE UNIVERSITY ACCTS	WEST LAFAYETTE IN 47906-	Preliminary Date 4/5/2018 KP
Part Number PIPER 28R-200/201 A	4510 20556-002	Hidden Damage Date 4/6/2018 KP
Unit Description SEE BELOW		In Progress Date 4/6/2018 KP
Registration No.		Final Date 4/6/2018 KP

CUSTOMER SERVICES REQUESTED

DESCRIPTION: CIRRUS SR20-G2 - TAILPIPE

Aerospace Welding Minneapolis Inc.
1045 Gemini Road
Eagan, MN 55121
(651) 379-9888

FAA-PMA

Part Number:
A20560-001

Approved Replacement for:
Cirrus Design Corporation
20560-001

Installation Eligibility:
SR20 S/N1423 and on

QA-16

Aerospace Welding Minneapolis Inc.
1045 Gemini Road
Eagan, MN 55121
(651) 379-9888

FAA-PMA

Part Number:
A20559-004

Approved Replacement for:
Cirrus Design Corporation 20559-004

Installation Eligibility:
SR20 S/N 1886 and on

QA-16

- | | | | |
|---|--|---|--------------------------|
| <input checked="" type="checkbox"/> REPAIRS | <input checked="" type="checkbox"/> TABS | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> A.D. NOTES | <input type="checkbox"/> DIE PENETRANT | <input type="checkbox"/> CORROSION PROTECT NEW TUBE | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> PRESSURE TEST | <input type="checkbox"/> DEMAGNETIZE | <input type="checkbox"/> PRIMER COAT | <input type="checkbox"/> |

AUTHORIZED AND CONDITIONS AGREED TO AS STATED ABOVE

BY

4/6/2018

Keron Pop

4/6/2018

DATE

4/6/2018

1. Approving Civil Aviation Authority/Country FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: 179991	
4. Organization Name and Address: Aerospace Welding Minneapolis, Inc. 1045 Gemini Road Eagan MN 55121 (UWDR792L)					5. Work Order/Contract/Invoice Number 179991	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:	
1	TAILPIPE	20556-002	1 each	179991	OVERHAULED	
12. Remarks: REF: WORK ORDER #179991.						
Aerospace Welding Minneapolis, Inc. certifies that the work specified in block 12/13 was carried out in accordance with EASA part 145 and in respect to that work, the component is considered ready for release to service under EASA part 145 Approval Number:EASA. 1456155. This form covers certification of the part identified in block 7/8 only and any additional EAS20556-002A requirements are the responsibility of the installer.						
13a. Certifies the items identified above were manufactured in conformity to: <input 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 checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input checked="" 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		13c. Approval/Authorization No.:		14b. Authorized Signature: <i>Kevan Pugh</i>		14c. Approval/Certificate No.: UWDR792L
13d. Name (Typed or Printed):		13e. Date (dd/mm/yyyy):		14d. Name (Typed or Printed): Kevan Pugh		14e. Date (dd/mm/yyyy): 06 Apr 2018
User/Installer Responsibilities						
<p>It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.</p> <p>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.</p> <p>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.</p>						

Discrepancies Noted:

- | | | |
|---|--|---|
| <input type="checkbox"/> OUTERSHELL | <input type="checkbox"/> BALL JOINT | <input type="checkbox"/> BELLOWS |
| <input type="checkbox"/> OVERBOARD | <input type="checkbox"/> BELL JOINT | <input type="checkbox"/> HEAT FINS |
| <input type="checkbox"/> BAFFLE | <input type="checkbox"/> INLAY | <input checked="" type="checkbox"/> STRAIGHT TUBE |
| <input type="checkbox"/> END PLATE | <input type="checkbox"/> OVERLAY | <input type="checkbox"/> BRACKET |
| <input type="checkbox"/> SHROUD RING | <input type="checkbox"/> INLET EXTENSION | <input type="checkbox"/> BOLT FLANGE |
| <input type="checkbox"/> BEADED END | <input type="checkbox"/> RISER TUBE | <input type="checkbox"/> TOP TUBE |
| <input checked="" type="checkbox"/> TAB | <input type="checkbox"/> FLANGE | <input type="checkbox"/> CRACK WELD |
| <input type="checkbox"/> SHAFT | <input type="checkbox"/> TAILPIPE | <input checked="" type="checkbox"/> SLIP JOINT |
| <input type="checkbox"/> BUTTERFLY | <input type="checkbox"/> FLOW DIVIDER | <input type="checkbox"/> ELBOW |
| <input type="checkbox"/> CLEAN & INSP. | <input type="checkbox"/> BODY | <input type="checkbox"/> SKIN |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

INSPECTOR'S INITIALS TLK

Corrective Action: ITEMS REPLACED OR REPAIRED

- | | | |
|---|--|--|
| <input type="checkbox"/> OUTERSHELL | <input type="checkbox"/> BALL JOINT | <input type="checkbox"/> BELLOWS |
| <input type="checkbox"/> OVERBOARD | <input type="checkbox"/> BELL JOINT | <input type="checkbox"/> HEAT FINS |
| <input type="checkbox"/> BAFFLE | <input type="checkbox"/> INLAY | <input type="checkbox"/> STRAIGHT TUBE |
| <input type="checkbox"/> END PLATE | <input type="checkbox"/> OVERLAY | <input type="checkbox"/> BRACKET |
| <input type="checkbox"/> SHROUD RING | <input type="checkbox"/> INLET EXTENSION | <input type="checkbox"/> BOLT FLANGE |
| <input type="checkbox"/> BEADED END | <input type="checkbox"/> RISER TUBE | <input type="checkbox"/> TOP TUBE |
| <input checked="" type="checkbox"/> TAB | <input type="checkbox"/> FLANGE | <input type="checkbox"/> CRACK WELD |
| <input type="checkbox"/> SHAFT | <input type="checkbox"/> TAILPIPE | <input type="checkbox"/> SLIP JOINT |
| <input type="checkbox"/> BUTTERFLY | <input type="checkbox"/> FLOW DIVIDER | <input type="checkbox"/> ELBOW |
| <input type="checkbox"/> CLEAN & INSP. | <input type="checkbox"/> BODY | <input type="checkbox"/> SKIN |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

INSPECTOR'S INITIALS TLK

Material Type

- ☒ 347 SS FILLER ROD
☒ 321 SS
☐ 4130 CHROMALLY
☐ 4130 ROD
☐ INCONEL
☐ INCONEL ROD
☐
☐

Approved Data

- ☒ 43.13-1B
☐ MANUFACTURER'S MANUAL
☐ AIR CARRIER'S MANUAL
☐

AEROSPACE WELDING MINNEAPOLIS, INC.
 1045 Gemini Road, Eagan, MN 55121 651-379-9888

FAA Repair Station #UWDR792L

Form 100

175788

NAME PURDUE UNIVERSITY ACCOUNTS	S/N AWI	N/A	Job: 96837
ADDRESS FREEHAER HALL OF	CITY WEST LAFAYETTE IN 47907-	Preliminary Date 6/19/2017 <u>TLK</u>	
ADMINISTRATIVE SERVICE CIRRUS SR20-G2	Part Number 10349-003	Hidden Damage Date 6/19/2017 <u>TLK</u>	
Unit Description SEE BELOW	Registration No.	In Progress Date 6/20/2017 <u>TLK</u>	
		Final Date 6/21/2017 <u>TLK</u>	

CUSTOMER SERVICES REQUESTED

DESCRIPTION: CYL # 6 HEADER

N583PU
10-3-18
4225

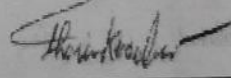
- | | | | |
|---|---|---|--------------------------|
| <input checked="" type="checkbox"/> REPAIRS | <input checked="" type="checkbox"/> BOLT FLANGE | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> A.D. NOTES | <input type="checkbox"/> DIE PENETRANT | <input type="checkbox"/> CORROSION PROTECT NEW TUBE | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> PRESSURE TEST | <input type="checkbox"/> DEMAGNETIZE | <input type="checkbox"/> PRIMER COAT | <input type="checkbox"/> |

AUTHORIZED AND CONDITIONS AGREED TO AS STATED ABOVE

BY

[Signature]

DATE 6/21/2017

1. Approving Civil Aviation Authority/Country FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: 175788	
4. Organization Name and Address: Aerospace Welding Minneapolis, Inc. 1045 Gemini Road Eagan MN 55121 (UWDR792L)					5. Work Order/Contract/Invoice Number 175788	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:	
1	HEADER CYL#6	10349-003	1 each	175788	REPAIRED	
12. Remarks: REF: WORK ORDER #175788.						
<p>Aerospace Welding Minneapolis, Inc. certifies that the work specified in block 12/13 was carried out in accordance with EASA part 145 and in respect to that work, the component is considered ready for release to service under EASA part 145 Approval Number EASA. 1456155. This form covers certification of the part identified in block 7/8 only and any additional EAS10349-003A requirements are the responsibility of the installer.</p>						
13a. Certifies the items identified above were manufactured in conformity to:				14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input checked="" type="checkbox"/> Other regulation specified in Block 12		
<input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> 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.		
13b. Authorized Signature		13c. Approval/Authorization No.:		14b. Authorized Signature:		14c. Approval/Certificate No.:
						UWDR792L
13d. Name (Typed or Printed):		13e. Date (dd/mm/yyyy):		14d. Name (Typed or Printed):		14e. Date (dd/mm/yyyy):
				Tom Knaresboro		21 Jun 2017
User/Installer Responsibilities						
<p>It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.</p> <p>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.</p> <p>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.</p>						

Aircraft Information

Registration (Tail) No. 583PU

Usage☐ Commercial ☒ Non-Commercial
☐ Government Military ☐ Government Non-military**Type**☒ Single-engine Propeller ☐ Single-engine Jet ☐ Multi-engine Propeller
☐ Multi-engine Jet ☐ Helicopter ☐ Other

Aircraft Manufacturer Cirrus

Model SR20 Color White

Seating Capacity 4

Radio Equipment (Check all that apply)☒ VHF ☐ MF ☐ HF ☐ SSB
☐ Other**Survival Equipment Usage**

Deployable (Describe and List Quantity)

1 Aircraft Parachute

Fixed (Describe and List Quantity)

Principal Airport Kcky

bessemer

State: AL

Additional Data**Emergency Contact Information** (Please indicate someone other than the owner)Name of **Primary** 24-Hour Emergency Contact:

surraya Rafiq

+1 205-432-8888

☐ Home ☐ Work ☒ Cell ☐ Fax ☐ Other☐ Home ☐ Work ☐ Cell ☐ Fax ☐ Other☐ Home ☐ Work ☐ Cell ☐ Fax ☐ Other☐ Home ☐ Work ☐ Cell ☐ Fax ☐ OtherName of **Alternate** 24-Hour Emergency Contact:

Abdul Rajpari

+1 205-266-6632

☐ Home ☐ Work ☒ Cell ☐ Fax ☐ Other☐ Home ☐ Work ☐ Cell ☐ Fax ☐ Other☐ Home ☐ Work ☐ Cell ☐ Fax ☐ Other☐ Home ☐ Work ☐ Cell ☐ Fax ☒ Other

If you do not receive a hardcopy confirmation of your registration from NOAA within 2 weeks, please email beacon.registration@noaa.gov or call 1.888.212.SAVE (7283). For information on the U.S. Search & Rescue Satellite-Aided Tracking (SARSAT) system, please visit www.sarsat.noaa.gov

OMB Auth: (0648-0295) Expires: 29FEB2024
Rev. 12/2017

From: NOAA Beacon Registration Confirmation - ELT - ADCC402DA400315
Subject: Your NOAA Beacon Registration Confirmation - ELT - ADCC402DA400315
Date: April 13, 2021 at 2:29 PM
To: IRFANRAJPARI@gmail.com IRFANRAJPARI@GMAIL.COM

**NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA)
SEARCH AND RESCUE SATELLITE AIDED TRACKING (SARSAT)**

Beacon ID:
ADCC4 02DA4 00315

Registration Expiration:
April 13, 2023

April 13, 2021

IRFAN RAJPARI:

Thank you for registering your 406 MHz ELT. You will receive a decal for your beacon via U.S. Postal Service mail within 10 days. Upon receipt, please verify its information, then apply the decal as described in the instructions provided. Please take a few moments now to verify your beacon ID and check/update your registration information.

VERIFY YOUR BEACON ID: Please verify that the 15-character beacon ID (also known as the beacon UIN or 15-hex ID) listed above is identical to the 15-character manufacturer ID displayed on your beacon's manufacturer-provided label. *If the beacon ID registered with NOAA is **not** identical to the manufacturer/installer ID, please contact us immediately.*

CHECK/UPDATE YOUR REGISTRATION INFORMATION: A printout of your current registration information is attached to this email. Please review it to ensure that all of your information, especially the emergency points of contact, is correct. If changes are necessary, you can make them online 24/7 via our website. If you lack online access, please mail or fax an updated copy of the registration to us. Remember, if your beacon is activated, the information in your registration is provided with the distress message transmitted to Search and Rescue forces, assisting them in locating you in a timely manner and possibly saving your life.

This letter is the proof-of-registration for your beacon; please retain it for your records. We will send you a renewal reminder approximately 2 months before your 2-year registration expires. If you have any questions regarding beacon registration, please contact the NOAA SARSAT Beacon Registration Team.

Attachment: Current beacon registration form (.pdf)

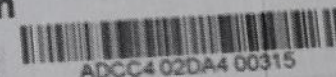
NOAA SARSAT Beacon Registration Team
www.beaconregistration.noaa.gov | beacon.registration@noaa.gov
Toll-Free: 1.888.212.7283 (SAVE) | Local: 301.817.4515 | Fax: 301.817.4565



Save time! Update your beacon online at: www.beaconregistration.noaa.gov

Mail or Fax to:
NOAA/SARSAT
NSOP, E/SPO53
1315 East West Hwy
Silver Spring, MD 20910
Fax No. 301-817-4565

Official 406 MHz ELT Registration Form



ELT Information

Beacon ID (Unique Identification Number)
A D C C 4 0 2 D A 4 0 0 3 1 5 Checksum: ☐ ☐ ☐ ☐ ☐
(15-digit hexadecimal ID provided by the beacon manufacturer)

Manufacturer Artex
Model No. ELT345

Registration Expiration (MM/DD/YYYY):
04/13/2023

Owner/Operator Information

Name IRFAN RAJPARI
Mailing Address 3924 BUTLER SPRINGS WAY

City HOOVER State/Province AL
ZIP (Postal) Code 35226 Country USA
Email IRFANRAJPARI@GMAIL.COM

Telephone
+1 205-422-4666 ☐ Home ☐ Work ☒ Cell ☐ Fax ☐ Other
+1 205-432-8888 ☐ Home ☐ Work ☒ Cell ☐ Fax ☐ Other
+1 205-266-6632 ☐ Home ☐ Work ☒ Cell ☐ Fax ☐ Other
☐ Home ☐ Work ☐ Cell ☐ Fax ☐ Other

AEROSPACE WELDING MINNEAPOLIS, INC.
1045 Gemini Road, Eagan, MN 55121 651-379-9888

FAA Repair Station #UWDR792L

Form 100

N583PW

1-2015

2324 Hrs 150363

NAME PURDUE UNIVERSITY ACCOUNTS	S/N AWI	N/A	Job: 65712
CITY FREEHAVER HALL OF	WEST LAFAYETTE IN 47907-		Preliminary Date 12/27/2012
UNIT CIRRUS SR20-G2	Part Number 10355-003	2024	Hidden Damage Date 2/27/2013
Unit Description SEE BELOW			In Progress Date 2/28/2013
Registration No.			Final Date 3/1/2013

CUSTOMER SERVICES REQUESTED

DESCRIPTION: CYL # 1 HEADER

Discrepancies Noted:

- | | | |
|---|--|--|
| <input type="checkbox"/> OUTERSHELL | <input type="checkbox"/> BALL JOINT | <input type="checkbox"/> BELLOWS |
| <input type="checkbox"/> OVERBOARD | <input type="checkbox"/> BELL JOINT | <input type="checkbox"/> HEAT FINS |
| <input type="checkbox"/> BAFFLE | <input type="checkbox"/> INLAY | <input type="checkbox"/> STRAIGHT TUBE |
| <input type="checkbox"/> END PLATE | <input type="checkbox"/> OVERLAY | <input type="checkbox"/> BRACKET |
| <input type="checkbox"/> SHROUD RING | <input type="checkbox"/> INLET EXTENSION | <input type="checkbox"/> BOLT FLANGE |
| <input type="checkbox"/> BEADED END | <input type="checkbox"/> RISER TUBE | <input type="checkbox"/> TOP TUBE |
| <input checked="" type="checkbox"/> TAB | <input type="checkbox"/> FLANGE | <input type="checkbox"/> CRACK WELD |
| <input type="checkbox"/> SHAFT | <input type="checkbox"/> TAILPIPE | <input checked="" type="checkbox"/> SLIP JOINT |
| <input type="checkbox"/> BUTTERFLY | <input type="checkbox"/> FLOW DIVIDER | <input type="checkbox"/> ELBOW |
| <input type="checkbox"/> CLEAN & INSP. | <input type="checkbox"/> BODY | <input type="checkbox"/> SKIN |

INSPECTOR'S INITIALS TLK

Corrective Action: ITEMS REPLACED OR REPAIRED

- | | | |
|---|--|--|
| <input type="checkbox"/> OUTERSHELL | <input type="checkbox"/> BALL JOINT | <input type="checkbox"/> BELLOWS |
| <input type="checkbox"/> OVERBOARD | <input type="checkbox"/> BELL JOINT | <input type="checkbox"/> HEAT FINS |
| <input type="checkbox"/> BAFFLE | <input type="checkbox"/> INLAY | <input type="checkbox"/> STRAIGHT TUBE |
| <input type="checkbox"/> END PLATE | <input type="checkbox"/> OVERLAY | <input type="checkbox"/> BRACKET |
| <input type="checkbox"/> SHROUD RING | <input type="checkbox"/> INLET EXTENSION | <input type="checkbox"/> BOLT FLANGE |
| <input type="checkbox"/> BEADED END | <input type="checkbox"/> RISER TUBE | <input type="checkbox"/> TOP TUBE |
| <input checked="" type="checkbox"/> TAB | <input type="checkbox"/> FLANGE | <input type="checkbox"/> CRACK WELD |
| <input type="checkbox"/> SHAFT | <input type="checkbox"/> TAILPIPE | <input checked="" type="checkbox"/> SLIP JOINT |
| <input type="checkbox"/> BUTTERFLY | <input type="checkbox"/> FLOW DIVIDER | <input type="checkbox"/> ELBOW |
| <input type="checkbox"/> CLEAN & INSP. | <input type="checkbox"/> BODY | <input type="checkbox"/> SKIN |

INSPECTOR'S INITIALS TLK

Material Type

Approved Data

- | | |
|---|--|
| <input checked="" type="checkbox"/> 347 SS FILLER ROD | <input checked="" type="checkbox"/> 43.13-1B |
| <input checked="" type="checkbox"/> 321 SS | <input type="checkbox"/> MANUFACTURER'S MANUAL |
| <input type="checkbox"/> 4130 CHROMALLY | <input type="checkbox"/> AIR CARRIER'S MANUAL |
| <input type="checkbox"/> 4130 ROD | |
| <input type="checkbox"/> INCONEL | |
| <input type="checkbox"/> INCONEL ROD | |
| <input type="checkbox"/> _____ | <input type="checkbox"/> _____ |
| <input type="checkbox"/> _____ | |

- | | | |
|---|---|---|
| <input checked="" type="checkbox"/> REPAIRS | <input checked="" type="checkbox"/> BOLT FLANGE | <input type="checkbox"/> _____ |
| <input checked="" type="checkbox"/> A.D. NOTES | <input type="checkbox"/> DIE PENETRANT | <input type="checkbox"/> CORROSION PROTECT NEW TUBE |
| <input checked="" type="checkbox"/> PRESSURE TEST | <input type="checkbox"/> DEMAGNETIZE | <input type="checkbox"/> PRIMER COAT |

MAINTENANCE RELEASE

The aircraft/component identified hereon 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.

AUTHORIZED AND CONDITIONS AGREED TO AS STATED ABOVE

BY

Therese

DATE 3/1/2013

1. Approving National Aviation Authority/Country: FAA/UNITED STATES		AUTHORIZED RELEASE CERTIFICATE <small>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</small>				3. Form Tracking Number: 150363	
4. Organization Name and Address: Aerospace Welding Minneapolis, Inc. 1045 Gemini Road Eagan MN 55121						5. Work Order/Contract/Invoice Number 150363	
6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:	
1	HEADER CYL#1	10355-003	N/A	1 each	N/A	REPAIRED	
13. Remarks: REF: WORK ORDER #150363. Aerospace Welding Minneapolis, Inc. certifies that the work specified in block 12/13 was carried out in accordance with EASA part 145 and in respect to that work, the component is considered ready for release to service under EASA part 145 Approval Number: EASA. 1456155. This form covers certification of the part identified in block 7/8 only and any additional EASA requirements are the responsibility of the installer.							
14. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13.				19. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> 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.: UWDR792L	
17. Name (Typed or Printed):		18. Date:		22. Name (Typed or Printed): Tom Knaresboro		23. Date (m/d/y): Mar 1 2013	
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.							

1. Approving National Aviation Authority/Country: FAA/United States		AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: 1240058 Page 1 of 1 Pages	
4. Organization Name and Address: BARRY CONTROLS - Aerospace 4510 Vanowen Street P.O. BOX 7710 Burbank, CA 91505		PQ0524NM				5. Work Order/Contract/Invoice Number: 94S 90521	
6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Qty:	11. Serial/Batch Number:	12. Status/Work:	
2	ISOLATOR, PPU, CIRRUS SR20 <i>P.O. 38628</i> EMERY AIR, INC. CRS E81R759K INCOMING PARTS MATERIALS DISP. DATE <i>12/20/13</i> INSP. <i>46</i> <input checked="" type="checkbox"/> SERVICABLE <input type="checkbox"/> UNSERVICABLE <input checked="" type="checkbox"/> TO STOCK <input type="checkbox"/> REJ. TO VENDOR	96355-01	N/A	24	N/A	NEW	
13. Remarks Issue to Customer: EMERY AIR, INC. Order Number: 38628 Drawing Revision: - 3/23/2012							
14. 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 13.			19. <input type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> 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: <i>Truong Do</i>		16. Approval/Authorization No.: DMIR601622NM		20. Authorized Signature:		21. Approval/Certificate No.:	
17. Name (Typed or Printed): TRUONG CONG DO		18. Date (m/d/y): Dec/20/2013		22. Name (Typed or Printed):		23. Date (m/d/y):	
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.							

1. Approving Civil Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: 8402	
4. Organization Name and Address: Tiffin Aire, Inc. 1778 West U.S. 224 Tiffin, Ohio 44883 (DTXR341D)					5. Work Order/Contract/Invoice Number: W.O.#8402	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:	
1	McCAULEY GOVERNOR	C290D3-R/T23	1	090271	REPAIRED	
12. Remarks: REPAIRED GOVERNOR IN ACCORDANCE WITH McCAULEY SERVICE MANUALS:780401 REV.8 12/15/02, SPM100 REV.6 10/19/15, MPC26 REV.4 10/19/15. COMPLIED WITH SERVICE LETTERS:780401 REV.8 12/15/02,SPM100 REV.6 10/19/15,MPC26 REV.4 10/19/15. COMPLIED WITH SERVICE BULLETINS:SB271A,ASB273C. ***REPAIR NOT AN OVERHAUL***						
13a. Certifies the items identified above were manufactured in conformity to: <input 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 checked="" 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:		13c. Approval/Authorization No.:		14b. Authorized Signature: <i>Dennis P. Gase</i>		14c. Approval/Certificate No.: DTXR341D
13d. Name (Typed or Printed):		13e. Date (dd/mm/yyyy):		14d. Name (Typed or Printed): Dennis P. Gase		14e. Date (dd/mm/yyyy): 15/MAY/2019
User/Installer Responsibilities						
<p>It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.</p> <p>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.</p> <p>Statements 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certificate completed in accordance with the national regulations of the user/installer before the aircraft may be flown.</p>						

1. Approving Civil Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: 23747
4. Organization Name and Address: Tiffin Aire, Inc. 1778 West U.S. 224 Tiffin, Ohio 44883 (DTXR341D)				5. Work Order/Contract/Invoice Number: W.O.#23747	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1	HARTZELL PROPELLER	BHC-J2YF-1BF	1	EF498B	OVERHAULED

12. Remarks:

COMPLETELY OVERHAULED PROPELLER IN ACCORDANCE WITH HARTZELL SERVICE MANUALS LISTED ON THE BACK SIDE OF THIS FORM. COMPLIED WITH SERICE BULLETINS: 136RI, 374RI / SERVICE LETTERS: 177, 217, 244, 267, 278, 348, 61YR12.
 BLADE MODEL NUMBER: F7694 / BLADE SERIAL NUMBERS: K73570, K73572.
 AIRCRAFT TACH TIME: 3998.0
 PROPELLER TOTAL TIME SINCE NEW: 3998.0
 PROPELLER TOTAL TIME SINCE OVERHAUL: 0.0
 PROPELLER TIME BETWEEN OVERHAUL: 72 CALENDAR MONTHS OR 2400 HOURS WHICHEVER OCCURS FIRST.

13a. 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 12.

14a. ☒ 14 CFR 43.9 Return to Service ☐ 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:

13c. Approval/Authorization No.:

14b. Authorized Signature:

14c. Approval/Certificate No.:

DTXR341D

13d. Name (Typed or Printed):

13e. Date (dd/mm/yyyy):

14d. Name (Typed or Printed):

14e. Date (dd/mm/yyyy):

Michael R Kieffer

07/Sep/2018

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.

Manual No.	Current Revision	Revision or Issue Date	Applicable
100D	Obsolete	Mar 2012	
100E	Rev 5	Apr 2014	
105A	Rev 2	Aug 2009	
109A	Obsolete	Mar 2012	
110	Original	Dec 1959	
113B	Rev 45	Mar 2018	X
114B	Original	Mar 1962	
114C	Rev 9	Mar 2018	
117D	Rev 17	Mar 2018	
118F	Rev 28	Aug 2018	
127	Rev 12	Feb 2018	
128	Rev 2	Oct 2017	
130B	Rev 22	Sep 2018	
132A	Rev 21	Jul 2018	
133C	Rev 36	Jun 2018	X
135F	Rev 30	Oct 2017	
141	Rev 11	Mar 2018	
142	Rev 16	Jul 2017	
143A	Rev 20	Jul 2017	
144	Rev 2	Aug 2017	
148	Rev 18	May 2017	
156A	Rev 2	Jun 2005	
157	Rev 3	Aug 2017	
158A	Rev 16	Mar 2018	
159	Rev 64	Aug 2018	X
165A	Rev 22	Mar 2018	
171	Rev 2	Mar 2013	
172	Rev 1	Aug 2015	
177	Original	Jun 2007	
180	Rev 27	Aug 2018	
181	Obsolete	Aug 2018	
182	Obsolete	Aug 2018	
183	Obsolete	Aug 2018	
202A V1	Rev 56	Oct 2017	X
202A V2	Rev 30	Jun 2018	X
202A V3	Rev 38	Sep 2016	X
202A V4	Rev 31	Aug 2017	
202A V5	Rev 30	Jun 2017	
202A V6	Rev 35	Jul 2018	X
202A V7	Rev 46	Jul 2018	X
202A V8	Rev 32	Nov 2016	X
202A V9	Rev 31	Jan 2013	X
202A V10	Rev 35	Oct 2017	X
202A V11	Rev 36	Nov 2015	X

Revision 403 Sep 5, 2018

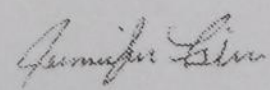
1. Approving Civil Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: 8160	
4. Organization Name and Address: Tiffin Aire, Inc.		1778 West U.S. 224 Tiffin, Ohio 44883 (DTXR341D)			5. Work Order/Contract/Invoice Number: W.O.#8160	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:	
1	McCAULEY GOVERNOR	C290D3-R/T23	1	090271	OVERHAULED	

12. Remarks:
 COMPLETELY OVERHAULED GOVERNOR IN ACCORDANCE WITH McCAULEY SERVICE MANUALS:780401 REV.8 12/15/02,
 SPM100 REV.6 10/19/15,MPC26 REV.4 10/19/15.
 COMPLIED WITH SERVICE LETTERS:2000-10B,2001-1F,2001-20C,2003-5,2005-1,2007-11,2010-5,2011-3,2013-1,2014-1G.

13a. Certifies the items identified above were manufactured in conformity to: <input 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 checked="" 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:	13c. Approval/Authorization No.:	14b. Authorized Signature: <i>Dennis P. Gase</i>	14c. Approval/Certificate No.: DTXR341D
13d. Name (Typed or Printed):	13e. Date (dd/mm/yy):	14d. Name (Typed or Printed): Dennis P. Gase	14e. Date (dd/mm/yy): 03/MAY/2018

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

1. Approving Civil Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: 8313557	
4. Organization Name and Address: Textron Aviation Inc. (PC4) Textron Aviation Inc. 1 Cessna Blvd, Wichita, KS 67215					5. Work Order Contract Invoice Number: 4844463	
6. Item: 10	7. Description: DIODE	8. Part Number: 1N4005	9. Quantity: 50	10. Serial Number: N/A	11. Status/Work: New	
12. Remarks: PO#: L22-0066						
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: 		13c. Approval/Authorization No.: PC4		14b. Authorized Signature		14c. Approval/Certificate No.:
13d. Name (Typed or Printed): JENNIFER FISHER		13e. Date (dd/mm/yyyy): 16/Jun/2022		14d. Name (Typed or Printed):		14e. Date (dd/mm/yyyy):
User/Installer Responsibilities						
<p>It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.</p> <p>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.</p> <p>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.</p>						

1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG		3. Form Tracking Number S O # 14291993	
4. Organization Name and Address: GARMIN International 1200 E 151st Olathe, KS 66062				5. Work Order/Contract/Invoice Number: S O # 14291993	
6. Item: 1.	7. Description: GMA347	8. Part Number: 011-00807-00	9. Quantity: 1	10. Serial Number: 47000354	11. Status/Work: REPAIRED

12. REMARKS: This unit is a Loaner. It has been analyzed, reworked, tested, and conforms to the Loaner process set forth by Garmin.

Operating software for this unit must be reloaded using the approved aircraft system software once the unit is reinstalled in the aircraft in order to complete the return to service process. Correct loading of this software can be verified by referring to the appropriate avionics/line maintenance manual.

The work that was performed on this unit was done to meet the requirements of all sections of the maintenance manual part number 190-00364-00 Rev- AR, Revision Date 2/22/2017. Reference: 010-L0275-00 is the Garmin stocking/shipping part number for the 011-00807-00 unit that was processed.

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.145.5534".

COPY

13a. 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

N / A

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.

13b. Authorized Signature

N / A

13c. Approval/Authorization No.:

N / A

14b. Authorized Signature:

Tim Knutson

14c. Approval/Certificate No.:

G6XR582Y

13d. Name (Typed or Printed)

N / A

13e. Date (dd/mm/yyyy)

N / A

14d. Name (Typed or Printed)

Tim Knutson

14e. Date (dd/mm/yyyy)

17 Jan 2018

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)/propellers(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.

GARMIN.**DELIVERY PACK LIST**

212999213

Seller	Ship To	Bill To	
Garmin International Inc. 1100 E 151st Street Olathe KS 66062 United States Tel: (913) 397-8200	CAUSEY AVIATION SERVICE INC 6120 SMITHWOOD RD LIBERTY NC 27298 United States Tel: 336-685 4423	CAUSEY AVIATION SERVICE ROBERT CHRIS MICHAEL 6120 SMITHWOOD RD LIBERTY NC 27298 United States	COPY

Date: 23-NOV-2022	Incoterms: EXW	No. Packages: 1	No. of Pallets: 0
Order Date: 23-NOV-2022	Carrier: FEDEX GROUND	Weight: 2.70 LB	
Order Type: Depot Loaner GI	Ship Method: FEDEXG-Parcel-GROUND PKG COMMERCIAL	Freight Terms: Prepaid	
Customer No: 6674			

Garmin Order No.: 159035387	Customer PO#: N583PU
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Line No.	Product Code	Product Description	Qty Shipped	Net Weight
2.1	010-L0275-00	GMA347,Unit Only,Loaner	1 EA	2.70 LB
Serial Number(s): 47000354			LPN/Container: 140184416	

WARRANTY INFORMATIONWarranty Information: www.garmin.com/support/warranty**SALES TAX**

Garmin International, Inc. is required by state law to collect sales/use tax in AL, AZ, CA, CT, FL, GA, HI, IL, IN, KS, LA, MA, ME, MI, MO, MN, MS, NC, NE, NJ, NM, NV, NY, OH, OK, PA, RI, TX, UT, VA, VT, WA, WI and WY. Tax is also collected on downloadable content in these states with the exception of Florida. Residents of any state not listed are responsible for reporting any applicable taxes on their purchases from Garmin International, Inc. to their states tax authorities. Please consult a tax professional in your state for guidance. Garmin does not provide tax or legal advice.

CERTIFICATE OF MATERIAL AND PROCESS CONFORMANCE

It is hereby certified that the articles described above are in conformance with GARMIN specifications and drawing for both the material and process the exception of any parts labeled experimental. Test reports and/or Data are on file as appropriate.

Date: 11/23/2022

Authorized Signature:

Designated Operations Representative



212999213

1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: W/O 152424	
4. Organization Name and Address: Aerotech of Louisville, Inc. 2209 Watterson Trail Louisville, KY 40299				5. Work Order, Contract, or Invoice Number: W/O: 152424		
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:	
1	KELLY ALTERNATOR	ES-4029	1	S/N H-S112278	OVERHAULED	
12. Remarks: This item was overhauled by Aerotech of Louisville, Inc. on W/O # 152424 Dated 23/NOV/2022 FAA Approved repair station number PU4R453M. Overhauled unit per overhaul manual SGA-1000						
13a. Certifies the items identified above were manufactured in conformity to:				14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 12		
<input type="checkbox"/> Approved design data and are in a condition for safe operation <input type="checkbox"/> 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.		
13b. Authorized Signature:		13c. Approval/Authorization No:		14b. Authorized Signature:		14c. Approval/Certificate No:
						PU4R453M
13d. Name (Typed or Printed):		13e. Date (dd/mm/yyyy):		14d. Name (Typed or Printed):		14e. Date: (dd/mm/yyyy):
				MIKE EVANS		23/NOV/2022
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.						

2209 Watterson Trail
Louisville, KY 40299

FAA Certified Repair Station # PU4R453M
SGA-1000 Alternator Maintenance Release

Model 28V 70A Part No. ES-4029 Serial No. H-S112278
Work Order No. 152424 Technician Terry Ridgeway Date 23/NOV/2022

Work Order No. 152424

This unit was disassembled, cleaned, inspected, reassembled, and tested in accordance with current manufacturer's overhaul manual specifications and in accordance with current F.A.A. regulations concerning this unit.

Following Parts Have Been Replaced

The Following Parts Have Been Replaced
(All Other Parts Are Serviceable)

[illegible]

In some instances F.A.A. approved P.M.A. parts are used other than the original manufacturer's

AD Notes

[illegible]

Service Bulletins Complied With

[illegible]

This unit is approved for return to service

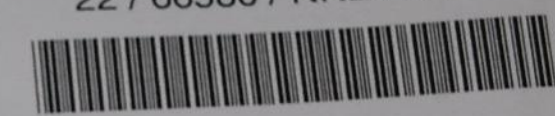
Signature _____

Date 23/NOV/2022

1. Approving competent Authority/Country
Autorité Compétente/Pays
DIRECTION GENERALE DE
L'AVIATION CIVILE
FRANCE

2. **AUTHORISED RELEASE CERTIFICATE**
Certificat Libératoire Autorisé
EASA FORM 1
Formulaire 1 de l'EASA

3. Form Tracking Number
N° de repère du Formulaire
22 / 66580 / NKE / N / B



4. Organisation Name and Address :
Nom et Adresse de l'Organisme :



MANUFACTURE FRANÇAISE DES PNEUMATIQUES MICHELIN
Place des Carmes Déchaux
63000 CLERMONT-FERRAND
FRANCE

5. Work Order / Contract / Invoice
Bon de commande / Contrat / Facture
2187T00051

6. Item / <i>Item</i>	7. Description / <i>Description</i>	8. Part No. / <i>N° de pièce</i>	9. Qty / <i>Qté</i>	10. Serial No. / <i>N° série</i>	11. Status / Work / <i>Etat / Travaux</i>
N/A	15X6.0-6	025-501-1 	1	2187T00051 	NEW

12. Remarks
Remarques
Norme(s): ETSOC62e
ETSOC62e Approval Number: EASA.21O.10059909

'This document has been issued according to an approved computer generated signature procedure'
'Ce document a été émis selon une procédure approuvée de signature électronique'

13a Certifies that the items identified above were manufactured in conformity to :
Certifie que les éléments identifiés ci-dessus ont été fabriqués conformément aux :
☒ approved design data and are in a condition for safe operation
données de conception approuvées et sont en état de fonctionner en toute sécurité
☐ non-approved design data specified in block 12
données de conception non approuvées spécifiées dans la case 12

14a. ☐ Part 145.A.50 Release to Service
Approbation pour remise en service
Selon Partie 145.A.50
☐ Other regulation specified in block 12
Autre réglementation précisée en case 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 Part 145 and in respect to that work the items are considered ready for release to service.
Certifie que, sauf indication contraire spécifiée en case 12, les travaux identifiés en case 11 et décrits en case 12 ont été réalisés conformément à la partie 145 et qu'au vu de ces travaux, les pièces sont considérées prêtes à la remise en service.

13b. Authorised Signature
Signature autorisée

13c. Approval/Authorisation Number
Numéro d'agrément/d'autorisation
FR.21G.0100

14b. Authorised Signature
Signature autorisée

14c. Certificate/Approval Ref. No
N° du Certificat/Agrément

13d. Name / *Nom*
UTAI Wised

13e. Date (dd mmm yyyy) / *Date (jj mmm aaaa)*
11 Jul 2022

14d. Name / *Nom*

14e. Date (dd mmm yyyy) / *Date (jj mmm aaaa)*

USER/INSTALLER RESPONSIBILITIES / Responsabilités de l'utilisateur/installateur

This certificate does not automatically constitute authority to install the item(s).
Ce document ne constitue pas forcément l'autorisation d'installer l'(es) item(s)

Where the user/installer performs work in accordance with regulations of an airworthiness authority different than the airworthiness authority specified in block 1 it is essential that the user/installer ensures that his/her airworthiness authority accepts items from the airworthiness authority specified in block 1.
Quand l'utilisateur/installateur travaille selon les réglementations d'une autorité de navigabilité différente de l'autorité de navigabilité mentionnée dans la case 1, il est essentiel que l'utilisateur/installateur s'assure que son autorité de navigabilité accepte les items libérés par l'autorité de navigabilité mentionnée dans la case 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.
Les indications portées en cases 13a et 14a ne constituent pas une certification de montage. Dans tous les cas le dossier d'entretien de l'aéronef doit contenir une certification d'installation délivrée conformément aux règlements nationaux par l'utilisateur/installateur avant que l'aéronef puisse voler.



Aircraft Inspection Status

PAGE ____ OF ____

Aircraft Registration No. N583PU
Make & Model CIRRUS SR20
Serial No. 2043

TYPE OF INSPECTION	DUE AT			COMPLIED WITH		
	HOURS	CYCLES	DATE	HOURS	CYCLES	DATE
Phase 1	0050	-	-	0050	-	7-14-10
Phase 2	0100	-	-	0100	-	9-9-10
Phase 3	0150	-	-	0150	-	9-28-10
Phase 2	0200	-	-	0200	-	10-13-10
Phase 4	0250	-	-	0250	-	11-6-10
Phase 2	0300	-	-	0300	-	11-19-10
Phase 5	0350	-	-	0350	-	1-10-11
Phase 2	0400	-	-	0400	-	2-11-11
Phase 1	0450	-	-	0450	-	3-21-11
Phase 2	0500	-	-	0496	-	4-18-11
Phase 3	0550	-	-	0538	-	7-26-11
Phase 2	0588	-	-	0538	-	7-26-11
Phase 4	0588	-	-	0538	-	7-26-11
Phase 2	0588	-	-	0538	-	7-26-11
Phase 5	0588	-	-	0538	-	7-26-11
Phase 2	0588	-	-	0538	-	7-26-11
This aircraft has been placed on the Cirrus Design 800 Hour Progressive Inspection Program in accordance with FAR 91.409(d).						
50 Hour	0588	-	-	0589	-	9-6-11
Phase 1	0639	-	-	0637	-	9-22-11
50 Hour	0687	-	-	0688	-	10-13-11
Phase 2	0737	-	-	0738	-	11-2-11
50 HR	0787	-	-	0788	-	12-9-11
Phase 3	0837	-	-	0837	-	12-15-12
50 Hour	0887	-	-	0886	-	3-31-12
Phase 4 Phase 2	0887 0936	-	-	0936	-	4-23-12
50 hr	0986	-	-	0985	-	6-20-12
Phase 4	1035	-	-	1035	-	8-18-12
50 hr	1085	-	-	1035	-	8-18-12
Phase 2	1085	-	-	1035	-	8-18-12
50 hr	1085	-	-	1035	-	8-18-12

Aircraft Inspection Status, (continued)

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TYPE OF INSPECTION	DUE AT			COMPLIED WITH		
	HOURS	CYCLES	DATE	HOURS	CYCLES	DATE
Phase 5	1085	-	-	1035	-	8-18-12
50 hr	1085	-	-	1035	-	8-18-12
Phase 2	1085	-	-	1035	-	8-18-12
50 hr	1085	-	-	1081	-	9-8-12
Phase 1	1131	-	-	1131	-	9-21-12
50 hr	1181	-	-	1181	-	10-5-12
Phase 2	1231	-	-	1231	-	10-31-12
50 hr	1281	-	-	1281	-	11-15-12
Phase 3	1331	-	-	1332	-	12-12-12
50 hr	1381	-	-	1381	-	1-19-13
Phase 2	1431	-	-	1433	-	2-16-13
50 hr	1481	-	-	1482	-	3-22-13
Phase 4	1531	-	-	1531	-	4-11-13
50 Hour	1581	-	-	1581	-	5-1-13
Phase 2	1631	-	-	1631	-	8-7-13
50 hr	1681	-	-	1631	-	8-7-13
Phase 5	1681	-	-	1631	-	8-7-13
50 hr	1681	-	-	1631	-	8-7-13
Phase 2	1681	-	-	1631	-	8-7-13
50 hr	1681	-	-	1681	-	9-13-13
Phase 1	1731	-	-	1731	-	10/02/13
50 hr	1781	-	-	1781	-	10/22/13
Phase 2	1831	-	-	1831	-	11-15-13
50 hr	1881	-	-	1881	-	12-13-13
Phase 3	1931	-	-	1931	-	03-03-14
50 hr	1981	-	-	1980	-	3-26-14
Phase 2	2030	-	-	2029	-	4-24-14
50 hr	2079	-	-	2079	-	6-20-14
Phase 4	2129	-	-	2128	-	9-3-14
50 hr	-	-	-	2128	-	9-3-14
Phase 2	-	-	-	2128	-	9-3-14
50 hr	-	-	-	2128	-	9-3-14
Phase 5	-	-	-	2128	-	9-3-14
50 hr	-	-	-	2128	-	9-3-14
Phase 2	-	-	-	2128	-	9-3-14
50 hr	2178	-	-	2177	-	9-19-14
Phase 1	2227	-	-	2226	-	10-24-14



Aircraft Inspection Status

Aircraft Registration No. N583PW
Make & Model CIRRUS SR20
Serial No. 2043

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TYPE OF INSPECTION	DUE AT			COMPLIED WITH		
	HOURS	CYCLES	DATE	HOURS	CYCLES	DATE
50 Hr	2276	—	—	2275	—	11-11-14
Phase 2	2325	—	—	2324	—	1-14-15
50 Hr	2374	✓	—	2373	—	02-09-15
Phase 3	2423	—	—	2422	—	03-11-15
50 Hr	2472	✓	—	2472	—	04-06-15
Phase 2	2522	—	—	2522	—	05-01-15
50 Hr	2572	—	—	2571	—	06-10-15
Phase 4	2621	—	—	2606	—	09-03-15
50 Hr	2656	—	—	2606	—	09-03-15
Phase 2	2656	—	—	2606	—	09-03-15
50 Hr	2656	—	—	2606	—	09-03-15
Phase 5	2656	—	—	2606	—	09-03-15
50 Hr	2656	—	—	2606	—	09-03-15
Phase 2	2656	—	—	2606	—	09-03-15
50 Hr	2656	—	—	2655	—	9-16-15
Phase 1	2705	—	—	2704	—	10-20-15
50 Hr	2754	—	—	2754	—	11-05-15
Phase 2	2804	—	—	2804	—	12-5-15
50 Hr	2854	—	—	2853	—	2-3-16
Phase 3	2903	—	—	2902	—	3-11-16
50 Hr	2952	—	—	2951	—	4-12-16
Phase 2	3001	—	—	3000	—	4-28-16
50 Hr	3050	—	—	3049	—	6-13-16
Phase 4	3099	—	—	3099	—	8-25-16
50 Hr	—	—	—	3099	—	8-25-16
Phase 2	—	—	—	3099	—	8-25-16
50 Hr	—	—	—	3099	—	8-25-16
Phase 5	—	—	—	3099	—	8-25-16
50 Hr	—	—	—	3099	—	8-25-16
Phase 2	—	—	—	3099	—	8-25-16
50 Hr	3149	—	—	3149	—	9-15-16
Phase 1	3199	—	—	3198	—	10-20-16
50 Hr	3248	—	—	3247	—	11-2-16
Phase 2	3297	—	—	3296	—	11-28-16

Aircraft Inspection Status (continued)

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TYPE OF INSPECTION	DUE AT			COMPLIED WITH		
	HOURS	CYCLES	DATE	HOURS	CYCLES	DATE
50Hr	3346	-	-	3345	-	1-12-17
Phase 3	3395	-	-	3394	-	2-23-17
50Hr	3444	-	-	3444	-	3-14-17
Phase 2	3494	-	-	3493	-	5/3/17
50Hr	3543	-	-	3542	-	6/7/17
Phase 4	3592	-	-	3587	-	8-25-17
50Hr	3637	-	-	3587	-	8-25-17
Phase 2	3637	-	-	3587	-	8-25-17
50Hr	3637	-	-	3587	-	8-25-17
Phase 5	3637	-	-	3587	-	8-25-17
50Hr	3637	-	-	3587	-	8-25-17
Phase 2	3637	-	-	3587	-	8-25-17
This aircraft has been placed on the Purdue University N583PU Progressive Inspection Program in accordance with 14 CFR § 91.409(d).						
50Hr	3637	-	-	3636	-	9-12-17
Event 1	3686	-	-	3685	-	9-30-17
50Hr	3735	-	-	3734	-	10-20-17
Event 2	3784	-	-	3783	-	11-10-17
50Hr	3833	-	-	3832	-	12-4-17
Event 3	3882	-	-	3881	-	2-14-18
50Hr	3931	-	-	3930	-	3-12-18
Event 2	3980	-	-	3979	-	4-21-18
50Hr	4029	-	-	4028	-	5-30-18
Event 4	4078	-	-	4077	-	7-24-18
50Hr	4127	-	-	4127	-	9-04-18
Event 2	4157/4177	-	-	4127	-	9-04-18
50hr	4157/4177	-	-	4176	-	9-19-18
Event 1	4226	-	-	4225	-	10-03-18
50hr	4275	-	-	4274	-	10-23-18
Event 2	4324	-	-	4324	-	11-29-18
50hr	4374	-	-	4373	-	2-19-19
Event 3	4423	-	-	4422	-	3-28-19
50hr	4472	-	-	4471	-	4-16-19
Event 2	4521	-	-	4520	-	5-22-19
50hr	4570	-	-	4569	-	6-26-19
Event 4	4619	-	-	4618	-	7-26-19
50hr	4668	-	-	4667	-	9-27-19



Aircraft Inspection Status

Aircraft Registration No. N583PU
Make & Model Cirrus SR20
Serial No. 2043

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TYPE OF INSPECTION	DUE AT			COMPLIED WITH		
	HOURS	CYCLES	DATE	HOURS	CYCLES	DATE
Event 2	4717	-	-	4667	-	9-27-19
50Hr	4717	-	-	4716	-	10-11-19
Event 1	4766	-	-	4765	-	10-28-19
50Hr	4815	-	-	4814	-	11-18-19
Event 2	4864	-	-	4864	-	1-3-20
50Hr	4914	-	-	4914	-	2-14-20
Event 3	4964	-	-	4963	-	3-3-20
50Hr	5013	-	-	5006	-	3-24-20
Event 2	5056	-	-	5055	-	7-29-20
50Hr	5105	-	-	5105	-	9-25-20
Event 4	5155	-	-	5130	-	10-20-20
50Hr	5180	-	-	5130	-	10-20-20
Event 2	5180	-	-	5130	-	10-20-20
50Hr	5180	-	-	5179	-	3/13/21
Event 1	5227	-	-	-	-	-
50Hr	-	-	-	-	-	-
Event 2	-	-	-	-	-	-
50Hr	-	-	-	-	-	-
Event 3	-	-	-	-	-	-
50Hr	-	-	-	-	-	-
Event 2	-	-	-	-	-	-
50Hr	-	-	-	-	-	-
Event 4	-	-	-	-	-	-
50Hr	-	-	-	-	-	-
Event 2	-	-	-	-	-	-
This aircraft has been removed from the Purdue University N583PU Progressive Inspection Program in accordance with 14 CFR § 91.409(d).						
Annual	-	-	10/21			
100 Hour	5230	-	-			

N583PU

Progressive Inspection Cycle Status

Aircraft Make: Cirrus Design Corporation
Aircraft M/N: SR20 S
Aircraft S/N: 2043
Aircraft CoA: 05/13/10

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N583PU

Aircraft Make: Cirrus Design Corporation
Aircraft M/N: SR20 S
Aircraft S/N: 2043
Aircraft CoA: 05/13/10

Status of Life Limited Components, Airworthiness Limitations, Overhaul and Replacement Items, and Special Inspections

Airworthiness Limitations / Life Limited Components (AMM 4-00)								
Item Number	Description	Part Number	Serial Number	Last Compliance		Due At		
				TTA (TTE)	Date	TTA (TTE)	Hourmeter	Date
Replacement Limitations								
B1	Engine	IO-360-ES	1037965	No Life Limits on the Engine or its Components				
B2	Propeller	BHC-J2YF-1BF/F694	EF498B	No Life Limits on the Propeller or its Components				
B3	Replace CAPS Rocket Motor	29554-001	3705		09/03/19			09/03/29
B4	Replace CAPS Parachute	25574-004-REB	0390881		08/27/19			08/31/29
B5	Replace CAPS Reefing Line Cutters	26707-001	8753 & 8730		11/15			11/21
B6	Replace CAPS Battery	N/A	N/A	Not Installed				
B7	Turn Coordinator/Roll Computer Batteries	N/A	N/A	Not Installed				
B8	Refurbish Inflatable Restraint System (IRS) EMA	20902-001	RA16AUG16-5		08/16/16			08/16/23
B8	Replace Inflatable Restraint System (IRS) EMA	20902-001	RA16AUG16-5		08/31/09			08/31/23
B9	Replace Pilot Seat IRS Inflator Assembly	20902-005	Z7EE273D0881		07/01/20			07/31/32
B10	Replace Co-Pilot Seat IRS Inflator Assembly	20902-005	Z7EE257D0385		07/01/20			07/31/32
Structural Limitations								
C	Airframe Structural Life Limit	SR20	2043			12,000	12,000	

Special Inspection Items (AMM 05-20)							
Description	Part Number	Serial Number	Last Compliance		Due At		
			TTA (TTE)	Date	TTA (TTE)	Hourmeter	Date
LH Magneto Inspection	BL-500556-3	See Component Record	See Component Record		Every 500 Hours		
RH Magneto Inspection	BL-500556-3	See Component Record	See Component Record		Every 500 Hours		
Fuel Injection Nozzle Cleaning	N/A	N/A	See Engine Log		Every 300 Hours or 12 Months		
Battery #1 Capacity Check	RG24-11M	See Component Record	See Component Record		At 1200 Hours or 24 Months then Every 200 Hours or 12 Months		
Engine Mount Weldment and Lower Attach Fittings Torque Verification	18640-001	See Airframe Log	See Airframe Log		Every 500 Hours		
Inspect Alternator #1	ES-4024LP	See Component Record	See Component Record		Every 500 Hours or 2 Years		
Inspect Alternator #2	653344	See Component Record	See Component Record		Every 500 Hours or 2 Years		
Portable Fire Extinguisher Monthly Inspection	A344	B-02759550	During NavData Update		Every Month		
Gaged Portable Fire Extinguisher Annual Maintenance	A344	B-02759550	See Airframe Log		Every 12 Months		
Gaged Portable Fire Extinguisher 6-Year Maintenance	A344	B-02759550		09/03/15			09/03/21
Gaged Portable Fire Extinguisher 12-Year Hydrostatic Test	A344	B-02759550		09/03/15			09/03/27
Ignition Switch Servicing	A-510-2	N/A	3,587		5,587	5,587	
Electrical Bonding & Shielding Inspection	N/A	N/A	4,864	01/03/20	5,864	5,864	01/03/30
GSA 81 Roll and Pitch Servo Actuator Inspection/Check	N/A	N/A	Not Installed				
GSM 85A/86 Roll and Pitch Servo Mount Inspection	N/A	N/A	Not Installed				
GSM 85A/86 Roll and Pitch Servo Mount Clutch Test	N/A	N/A	Not Installed				
GMU 44 Magnetometer Calibration	006-B0244-00	47515983		06/05/20			06/05/22
91.207(d) ELT Inspection	453-6603	197-02921	See Airframe Log		Every Event 4		
91.411 Pitot/Static System Check	12731-003	478664		06/03/20			06/30/22
91.413 Transponder System Check	GTX 33	89120058		06/03/20			06/30/22
91.217 Altitude Reporting System Check	GDC 74A	20608259		06/03/20			06/30/22
SID97-3 Fuel Injection System Functional Inspection	N/A	N/A	See Engine Log		Every Event 2		

Description	Part Number	Serial Number	Last Compliance		Due At		
			TTA (TTE)	Date	TTA (TTE)	Hourmeter	Date
Alaska ETMS and Wireless Unit Visual Inspection (STC SA03407AT)	N/A	N/A	Not Installed				
Tanis Engine Preheat System Visual and Operational Inspection	TAS100-12	N/A	See Engine Log		Every Event 2		

N583PU

Aircraft Make: Cirrus Design Corporation
Aircraft M/N: SR20 S
Aircraft S/N: 2043
Aircraft CoA: 05/13/10

Status of Life Limited Components, Airworthiness Limitations,
Overhaul and Replacement Items, and Special Inspections

Overhaul And Replacement Schedule (AMM 5-10)							
Item Number	Description	Part Number	Serial Number	Last Compliance		Due At	
				TTA (TTE)	Date	TTA (TTE)	Hourmeter Date
1	Replace Gascolator Fuel Filter (1878, 1886 thru 2031)	N/A	N/A			Not Installed	
2	Replace Vacuum Regulator Filter (1005 thru 1267)	N/A	N/A			Not Installed	
3	Replace Brake Assembly O-Rings (1005 thru 2030)	N/A	N/A			N/A by Serial Number	
4	Replace Engine Induction Air Filter	BA-24	N/A	See Engine Log		Every Event 2	
5	Replace Instrument Air Filter (1005 thru 1267)	N/A	N/A			Not Installed	
6	Replace Battery #2	50979-001	N/A	See Airframe Log		Every 500 Hours or 2 Years	
7	Replace OAT/Clock Battery (1005 thru 1422)	N/A	N/A			Not Installed	
8	Replace Battery #1	RG24-11M	See Component Record	See Component Record		Every 1800 Hours or 3 Years	
9	Replace ELT RCPI Alkaline Battery (ACK E-01 ELT)	N/A	N/A			Not Installed	
10	Overhaul Propeller Governor	D20309-22	See Component Record	See Component Record		Every 2000 Hours or 5 Years	
11	Replace LH Brake Assembly O-Rings	M83461/1-222	N/A		06/22/20		06/22/25
11	Replace RH Brake Assembly O-Rings	M83461/1-222	N/A		06/22/20		06/22/25
12	Replace ELT RCPI Battery (Artex ME406 ELT)	131-0001	N/A		06/22/20		06/22/25
13	Overhaul Propeller	BHC-J2YF-1BF/F7694	EF498B	4,245	09/07/18	6,645	09/07/24
14	Replace Vacuum Pump Coupling	N/A	N/A			Not Installed	
15	Replace Carbon Monoxide Detector	24660-002	96694		10/16		10/23
16	Replace ELT RCPI Lithium Battery (ACK E-01 ELT)	N/A	N/A			Not Installed	
17	Replace Electric Vacuum Pump	N/A	N/A			Not Installed	
18	Replace Vacuum Manifold and Check Valves	N/A	N/A			Not Installed	
19	Replace Fuel System Boost Pump	5217-00-3	See Airframe Log	See Airframe Log		Every 10 Years	
20	Replace Portable Fire Extinguisher (w/o Gage)	N/A	N/A			Not Installed	
21	Overhaul Alternator #1	ES-4024LP	See Component Record	See Component Record		Every 2000 Hours or 12 Years	
22	Overhaul Alternator #2 (B&C Specialty Products BC410)	N/A	N/A			Not Installed	
23	Overhaul Alternator #2 (CMI/TCM p/n: 653334)	653344	See Component Record	See Component Record		Every 2000 Hours or 12 Years	
24	Replace Muffler	20560-001	N/A			See Airframe Log	Every 1,000 Hours
24	Replace Heat Exchanger	20559-004	N/A			See Airframe Log	Every 1,000 Hours
25	Overhaul Engine	IO-360-ES	1037965	4,667	08/07/19	7,067	08/07/31
26	Replace Oiler Strut and Rubber Elements (2065 & subs)	N/A	N/A			Not Installed	
27	Overhaul Propeller Governor (1005 thru 1336)	N/A	N/A			N/A by Serial Number	
28	Replace Evaporator Blower Motor (2065 & subs with A/C)	N/A	N/A			Not Installed	
29	Overhaul LH Magneto	10-500556-3	See Component Record	See Component Record		Every 4 Years	
29	Overhaul RH Magneto	10-500556-3	See Component Record	See Component Record		Every 4 Years	
30	Replace ELT Battery Pack	455-0012	N/A		05/26/16		6/23
31	Replace Parker/Airborne Vacuum Pump	N/A	N/A			Not Installed	
32	Replace Tempest Vacuum Pump	N/A	N/A			Not Installed	
33	Replace Flexible Brake System Lines	N/A	N/A		05/13/10		On Condition
34	Replace Flexible Fuel Lines	N/A	N/A		09/27/19		On Condition
35	Replace Flexible Oil Drain Lines	N/A	N/A		09/27/19		On Condition
36	Replace Flexible Vent Lines	N/A	N/A		05/13/10		On Condition
37	Replace Fuel System Drain Valve Seals	N/A	N/A		05/13/10		On Condition
38	Replace Gascolator Seals	1742439	N/A		05/13/10		On Condition
39	Replace Hydraulic Fluid	MIL-H-5606	N/A		05/13/10		On Condition
40	Replace Rudder-Aileron Bungee (1005 thru 1885)	N/A	N/A			Not Installed	

Component Maintenance, Overhaul, and Replacement Record



Component

Description: Magneto
 Manufacturer: TCM
 Model Number: S6LSC-25
 Part Number: BL-500556-3
 Serial Number: D19FA349R

Component Installation and Removal Record											
Installation							Removal				
Aircraft Registration Number	Position (L,R,1,2)	Installation Date	Component Total Time at Installation	Component Time Since Overhaul at Installation	Aircraft Total Time at Installation	Aircraft Maintenance Hourmeter Time at Installation	Removal Date	Component Total Time at Removal	Component Time Since Overhaul at Removal	Aircraft Total Time at Removal	Aircraft Maintenance Hourmeter Time at Removal
N583PU	L	09/27/19	0000	N/A	4667	4667					

Component Inspection and Overhaul Record ¹							
Aircraft Registration Number	Type of Inspection	Due At			Complied With		
		Component Total Time	Aircraft Maintenance Hourmeter Time	Date	Component Total Time	Aircraft Maintenance Hourmeter Time	Date
N583PU	500 Hour Inspection	0500	5167	N/A	0463	5130	10/15/20
N583PU	500-hr Inspection	0463	5639	N/A			

¹ If this component is relocated to another aircraft, please calculate the next inspection and overhaul due times based upon the new aircraft maintenance hourmeter. Enter the new Aircraft Registration Number, the Type of Inspection (e.g. 500 Hour Inspection and Overhaul), the Due At/Component Total Time, the newly calculated Due At/Aircraft Maintenance Hourmeter Time, and the Due At/Date (if applicable) in the spaces provided. In the rows for the aircraft from which the component was removed, please enter "N/A" in any empty spaces under the Complied With/Component Total Time, Complied With/Aircraft Maintenance Hourmeter Time, and Complied With/Date columns. Magneto overhaul due at engine overhaul in accordance with TCM SB643B.

Component Maintenance, Overhaul, and Replacement Record

Date	Component Total Time	Component Time Since Overhaul	Description of Work Performed Signature & Certificate Number of Person Performing Work
			<p>11/15/20 0463 N/A</p> <p>CLW 500-TR Inspection IAW S-2015-200 Series High Tension magnet Service and Support manual Publication number X42002 R4 dated Oct 2018. Replaced parts and hardware as called out by manual. BT 11/15/20 11/10/2023</p>

Component Maintenance, Overhaul, and Replacement Record

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Component

Description: Magneto
Manufacturer: TCM
Model Number: S6LSC-25
Part Number: BL-500556-3
Serial Number: D19FA344R

Component Installation and Removal Record										
Installation							Removal			
Aircraft Registration Number	Position (L, R, 1, 2)	Installation Date	Component Total Time at Installation	Component Time Since Overhaul at Installation	Aircraft Total Time at Installation	Aircraft Maintenance Hourmeter Time at Installation	Removal Date	Component Total Time at Removal	Component Time Since Overhaul at Removal	Aircraft Total Time at Removal
N583PU	R	09/27/19	0000	N/A	4667	4667				

Component Inspection and Overhaul Record ¹							
Aircraft Registration Number	Type of Inspection	Due At			Complied With		
		Component Total Time	Aircraft Maintenance Hourmeter Time	Date	Component Total Time	Aircraft Maintenance Hourmeter Time	Date
N583PU	500 Hour Inspection	0500	5167	N/A	463	5130	10/15/20
N583PU	500-hr Inspection	0963	5630	N/A			

¹ If this component is relocated to another aircraft, please calculate the next inspection and overhaul due times based upon the new aircraft maintenance hourmeter. Enter the new Aircraft Registration Number, the Type of Inspection (e.g. 500 Hour Inspection and Overhaul), the Due At/Component Total Time, the newly calculated Due At/Aircraft Maintenance Hourmeter Time, and the Due At/Date (if applicable) in the spaces provided. In the rows for the aircraft from which the component was removed, please enter "N/A" in any empty spaces under the Complied With/Component Total Time, Complied With/Aircraft Maintenance Hourmeter Time, and Complied With/Date columns. Magneto overhaul due at engine overhaul in accordance with TCM SB643B.

Component Maintenance, Overhaul, and Replacement Record

Date	Component Total Time	Component Time Since Overhaul	Description of Work Performed Signature & Certificate Number of Person Performing Work
			10/17/20

Component Maintenance, Overhaul, and Replacement Record

PURDUE
UNIVERSITY

Component
Description: Alternator (1)
Manufacturer: Hartzell Engine Technologies
Model Number: ES-4024LP
Part Number: 654200
Serial Number: H-S042258

Component Installation and Removal Record											
Installation							Removal				
Aircraft Registration Number	Position (L, R, 1, 2)	Installation Date	Component Total Time at Installation	Component Time Since Overhaul at Installation	Aircraft Total Time at Installation	Aircraft Maintenance Hourmeter Time at Installation	Removal Date	Component Total Time at Removal	Component Time Since Overhaul at Removal	Aircraft Total Time at Removal	Aircraft Maintenance Hourmeter Time at Removal
N583PU	1	09/27/19	0000	N/A	4667	4667					5130

Component Inspection and Overhaul Record ¹							
Aircraft Registration Number	Type of Inspection	Due At			Complied With		
		Component Total Time	Aircraft Maintenance Hourmeter Time	Date	Component Total Time	Aircraft Maintenance Hourmeter Time	Date
N583PU	500-Hour Inspection	0500	5167	N/A	0463	5130	10-13-20
N583PU	2000-Hour/12-Year Overhaul	2000	6667	09/27/31			
N583PU	500-Hour Inspection	0963	5630	N/A			

¹ If this component is relocated to another aircraft, please calculate the next inspection and overhaul due times based upon the new aircraft maintenance hourmeter. Enter the new Aircraft Registration Number, the Type of Inspection (e.g. 500 Hour Inspection and Overhaul), the Due At/Component Total Time, the newly calculated Due At/Aircraft Maintenance Hourmeter Time, and the Due At/Date (if applicable) in the spaces provided. In the rows for the aircraft from which the component was removed, please enter "N/A" in any empty spaces under the Complied With/Component Total Time, Complied With/Aircraft Maintenance Hourmeter Time, and Complied With/Date columns.

Component Maintenance, Overhaul, and Replacement Record

5)

Component Maintenance, Overhaul, and Replacement Record

PURDUE
UNIVERSITY

Component
Description: Alternator (2)
Manufacturer: CMI (Hartzell Engine Technologies)
Model Number: ES-4029
Part Number: 653344
Serial Number: H-S112278

Component Installation and Removal Record										
Installation						Removal				
Aircraft Registration Number	Position (L, R, 1, 2)	Installation Date	Component Total Time at Installation	Component Time Since Overhaul at Installation	Aircraft Total Time at Installation	Aircraft Maintenance Hourmeter Time at Installation	Removal Date	Component Total Time at Removal	Component Time Since Overhaul at Removal	Aircraft Total Time at Removal
N583R	2	3-3-20	0000	N/A	4963	4963				

Component Inspection and Overhaul Record ¹							
Aircraft Registration Number	Type of Inspection	Due At			Complied With		
		Component Total Time	Aircraft Maintenance Hourmeter Time	Date	Component Total Time	Aircraft Maintenance Hourmeter Time	Date
N583R	500-Hour Inspection	0500	5463	N/A			
N583R	2000-Hour/12-Year Overhaul	2000	6963	3-3-32			

¹ If this component is relocated to another aircraft, please calculate the next inspection and overhaul due times based upon the new aircraft maintenance hourmeter. Enter the new Aircraft Registration Number, the Type of Inspection (e.g. 500 Hour Inspection and Overhaul), the Due At/Component Total Time, the newly calculated Due At/Aircraft Maintenance Hourmeter Time, and the Due At/Date (if applicable) in the spaces provided. In the rows for the aircraft from which the component was removed, please enter "N/A" in any empty spaces under the Complied With/Component Total Time, Complied With/Aircraft Maintenance Hourmeter Time, and Complied With/Date columns.

1. Approving Organization Authority/Country:		2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG		3. Form Tracking Number: 538981																			
FAA/United States <td colspan="2">PC #508 <td colspan="2">5. Work Order/Contract/Invoice Number: 674911 0000263538</td> </td>		PC #508 <td colspan="2">5. Work Order/Contract/Invoice Number: 674911 0000263538</td>		5. Work Order/Contract/Invoice Number: 674911 0000263538																			
4. Organization Name and Address Continental Motors, Inc. 2039 Broad Street, Mobile, Alabama 36615			9. Quantity: 8	10. Serial Number: See Block 12	11. Status/Work: NEW																		
6. Item: 1	7. Description ALTERNATOR ASSEMBLY-GEAR DR	8. Part Number: 653344																					
12. Remarks: AIRWORTHINESS APPROVAL																							
Serial/Batch Number(s): <table border="1"> <thead> <tr> <th>Serial</th> <th>Description</th> </tr> </thead> <tbody> <tr><td>H-S112282</td><td>ALTERNATOR ASS</td></tr> <tr><td>H-S112281</td><td>ALTERNATOR ASS</td></tr> <tr><td>H-S112277</td><td>ALTERNATOR ASS</td></tr> <tr><td>H-S112280</td><td>ALTERNATOR ASS</td></tr> <tr><td>H-S103771</td><td>ALTERNATOR ASS</td></tr> <tr><td>H-S112279</td><td>ALTERNATOR ASS</td></tr> <tr><td>H-S112278</td><td>ALTERNATOR ASS</td></tr> <tr><td>H-S103768</td><td>ALTERNATOR ASS</td></tr> </tbody> </table>						Serial	Description	H-S112282	ALTERNATOR ASS	H-S112281	ALTERNATOR ASS	H-S112277	ALTERNATOR ASS	H-S112280	ALTERNATOR ASS	H-S103771	ALTERNATOR ASS	H-S112279	ALTERNATOR ASS	H-S112278	ALTERNATOR ASS	H-S103768	ALTERNATOR ASS
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H-S103771	ALTERNATOR ASS																						
H-S112279	ALTERNATOR ASS																						
H-S112278	ALTERNATOR ASS																						
H-S103768	ALTERNATOR ASS																						
13a. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in 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>Richard Denny</i>		13c. Approval/Authorization No.: 313635059		14b. Authorized Signature:																			
13d. Name (Typed or Printed): Richard Denny		13e. Date (dd/mm/yyyy): 14/Dec/2018		14c. Approval/Certificate No.:																			
				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.																							

Component Maintenance, Overhaul, and Replacement Record

PURDUE
UNIVERSITY

Component
Description: Battery (1)
Manufacturer: Concorde
Model Number: N/A
Part Number: RG24-11M
Serial Number: 40927909

Component Installation and Removal Record											
Installation							Removal				
Aircraft Registration Number	Position (L, R, 1, 2)	Installation Date	Component Total Time at Installation	Component Time Since Overhaul at Installation	Aircraft Total Time at Installation	Aircraft Maintenance Hourmeter Time at Installation	Removal Date	Component Total Time at Removal	Component Time Since Overhaul at Removal	Aircraft Total Time at Removal	Aircraft Maintenance Hourmeter Time at Removal
N583P0	1	10-3-18	0000	N/A	4225	4225					

Component Inspection and Overhaul Record ¹							
Aircraft Registration Number	Type of Inspection	Due At			Complied With		
		Component Total Time	Aircraft Maintenance Hourmeter Time	Date	Component Total Time	Aircraft Maintenance Hourmeter Time	Date
N583P0	Replacement	1800	6025	10-3-21			
N583P0	Inspection & Capacity Check	1200	5425	10-3-20	0905	5130	10-20-20
N583P0	Inspection & Capacity Check	1105	5330	N/A			

¹ If this component is relocated to another aircraft, please calculate the next replacement due time based upon the new aircraft maintenance hourmeter. Enter the new Aircraft Registration Number, the Type of Inspection (e.g. Replacement), the Due At/Component Total Time, the newly calculated Due At/Aircraft Maintenance Hourmeter Time, and the Due At/Date in the spaces provided. In the rows for the aircraft from which the component was removed, please enter "N/A" in any empty spaces under the Complied With/Component Total Time, Complied With/Aircraft Maintenance Hourmeter Time, and Complied With/Date columns.

Component Maintenance, Overhaul, and Replacement Record

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Component Maintenance, Overhaul, and Replacement Record

PURDUE
UNIVERSITY

Component
Description: Propeller Governor
Manufacturer: McCauley
Model Number: C290D3 R/T23
Part Number: D20309-22
Serial Number: 090271

Component Installation and Removal Record										
Installation							Removal			
Aircraft Registration Number	Position (L,R,1,2)	Installation Date	Component Total Time at Installation	Component Time Since Overhaul at Installation	Aircraft Total Time at Installation	Aircraft Maintenance Hourmeter Time at Installation	Removal Date	Component Total Time at Removal	Component Time Since Overhaul at Removal	Aircraft Total Time at Removal
N594PU	-	5/18/10	0000	N/A	0000	0000	3/31/14	1957	N/A	1957
N583PU	-	4/24/14	1957	0000	2029	2029	4/21/18	3907	1950	3979
N595PU	-	5/17/18	3907	0000	3625	3625	5/08/19	4428	0521	4146
N583PU	-	5/22/19	4428	0521	4520	4520				

Component Inspection and Overhaul Record ¹							
Aircraft Registration Number	Type of Inspection	Due At			Complied With		
		Component Total Time	Aircraft Maintenance Hourmeter Time	Date	Component Total Time	Aircraft Maintenance Hourmeter Time	Date
N594PU	Overhaul	2000	2000	5/18/15	1957	1957	4/9/2014
N583PU	Overhaul	3957	4029	4/19	3907	3979	5-3-18
N595PU	Overhaul	5907	5625	5-3-23	-	-	-
N595PU	Overh	-	-	-	-	-	-
N583PU	Overhaul	5907	5999	5-3-23			

¹ If this component is relocated to another aircraft, please calculate the next inspection and overhaul due times based upon the new aircraft maintenance hourmeter. Enter the new Aircraft Registration Number, the Type of Inspection (e.g. 500 Hour Inspection and Overhaul), the Due At/Component Total Time, the newly calculated Due At/Aircraft Maintenance Hourmeter Time, and the Due At/Date (if applicable) in the spaces provided. In the rows for the aircraft from which the component was removed, please enter "N/A" in any empty spaces under the Complied With/Component Total Time, Complied With/Aircraft Maintenance Hourmeter Time, and Complied With/Date columns.

Component Maintenance, Overhaul, and Replacement Record

Date	Component Total Time	Component Time Since Overhaul	Description of Work Performed Signature & Certificate Number of Person Performing Work
5-3-18	3907	0000	Governor (s/n: 090271) overhauled by Tiffin Aire Inc. under w/o: 8400. Mark Hopkins AP2785650
5-15-19	4428	0521	McCaughey SB271A and ASB273C complied with by Tiffin Aire, Inc. under w/o: 8402. Mark Hopkins AP2785650
11-5-20	5052	1145	AD 2020-19-06, McCaughey Propeller Governor Idler Bearing, dated 11/03/20, previously complied with by installation of a governor eligible for installation in accordance with paragraph (g)(h). Advanced Propeller Systems, LLC idler bearing p/n: APS-20028 installed on propeller governor s/n: 090271 on 05/15/19 by Tiffin Aire, Inc. under w/o: 8402. Mark Hopkins AP2785650 Mark Hopkins A&P2785650

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[illegible]

Component Maintenance, Overhaul, and Replacement Record



	Component
Description:	Cylinder
Manufacturer:	Continental Motors
Part Number:	658601A1
Serial Number:	AC19DB159

[illegible]

Component Maintenance, Overhaul, and Replacement Record



Component	
Description:	Cylinder
Manufacturer:	Continental Motors
Part Number:	658601A1
Serial Number:	AC19EA604

[illegible]

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[illegible]

Component Maintenance, Overhaul, and Replacement Record



Component

Description: Cylinder

Manufacturer: Continental Motors

Part Number: 658601A1

Serial Number: AC19DB157

[illegible]

Component Maintenance, Overhaul, and Replacement Record



Component

Description:	Cylinder
Manufacturer:	Continental Motors
Part Number:	658601A1
Serial Number:	AC19DB193

[illegible]

N583PU

Applicable Airworthiness Directives

Aircraft M/N:	SR20 S	Aircraft S/N:	2043
Engine M/N:	IO-360-ES	Engine S/N:	1037965
Propeller M/N:	BHC-J2YF-1BF/F7694	Propeller S/N:	EF4988

Recurring

AD Number	AD Rev. Date	Subject	Method Of Compliance	Compliance Interval
Cirrus Design Corporation SR20				
There are currently no recurring AD's that apply to this airframe.				
Teledyne Continental Motors IO-360-ES				
There are currently no recurring AD's that apply to this engine.				
Hartzell BHC-J2YF-1BF/F7694				
There are currently no recurring AD's that apply to this propeller.				
Appliances			Inspect IAW Paragraph (a)	Every 2000 Hours
93-05-06	04/29/93	ACS Ignition Switches		
New AD's				

Non-Recurring

AD Number	AD Rev. Date	Subject	Method Of Compliance	Compliance Time		Complied With By	
				Date	Total ¹	Tach	
Cirrus Design Corporation SR20							
There are currently no non-recurring AD's that apply to this airframe.							
Teledyne Continental Motors IO-360-ES							
88-03-06	04/15/88	TCM Oil Filter	PCW IAW Para (a)(b)	09/27/19	0000	4667	M. Hopkins
Hartzell BHC-J2YF-1BF/F7694							
2007-26-09	01/30/08	Blade Shank Cracks	PCW As Per Para (h)(1)	07/19/10	0001	0001	Cirrus Design
Appliances							
2020-19-06	11/03/20	McCauley Governor	PCW IAW Para (g)(h)	11/05/20	5144	5144	M. Hopkins
New AD's							

¹ Engine total time for Teledyne Continental Motors AD's, propeller total time for Hartzell AD's, and airframe total time for all other AD's.

N583PU

Non-Applicable Airworthiness Directives

Aircraft M/N:	SR20 S	Aircraft S/N:	2043
Engine M/N:	IO-360-ES	Engine S/N:	1037965
Propeller MN:	BHC-J2YF-1BF/F7694	Propeller S/N:	EF498B

AD Number	AD Rev. Date	Subject	Reason For N/A
Cirrus Design Corporation SR20			
2001-25-03	12/17/01	Elevator Torque Tube and Rudder Hinge	N/A by S/N
2002-21-02	11/08/02	Roll and Yaw Trim Cartridge Retaining Nut	N/A by S/N
2002-24-08	01/24/03	Parachute Activation System Modification	N/A by S/N
2006-07-06	05/11/06	Fuel Line and Wiring Harness in Console	N/A by S/N
2006-19-10	10/24/06	Crew Seat Break-Over Bolt and Reclining Locks	N/A by S/N
2006-21-03	11/17/06	POH, Brake Caliper Overheating Damage	N/A by S/N
2007-14-03	08/16/07	Parachute System Pick-Up Collar Support and Screws	N/A by S/N
2008-03-16	03/11/08	Rudder-Aileron Interconnect Rigging	N/A by S/N
2008-11-18	07/07/08	Engine Exhaust and Heat Exchanger	N/A by S/N
2008-14-13	08/14/08	Cabin Door Rod Ends and Hinge Pin	N/A by S/N
Teledyne Continental Motors IO-360-ES			
70-14-07	11/22/74	Fuel Injection Pump	N/A by Engine M/N
74-18-07	08/28/74	Cylinder Failure	N/A by Engine M/N
81-13-10 R1	11/20/81	Oil Pump Drive Gear	N/A by Engine M/N
91-19-03	09/29/91	Champion Oil Filter	N/A IAW Paragraph (b)
92-04-09	06/22/93	Rocker Arm Shaft Hold Down Studs	N/A IAW TCM MSB M92-4R1
93-10-02	08/12/93	Cylinder Valve Retainer Key	N/A IAW TCM MSB93-12
95-21-15	11/28/95	Engine Teardown and Inspection	N/A by Engine M/N
96-12-22	07/31/96	Oil Filter Adapter Assembly Nut	N/A, Subject Part Not Installed
97-26-17	01/23/98	Airmelt Crankshaft	N/A by Manufacture Date
98-17-11	10/19/98	Crankshaft Cracks	N/A by Engine M/N
98-19-02	11/09/98	Superior Air Parts Piston Rings	N/A by Engine M/N
2000-23-21	12/12/00	Crankshaft Connecting Rod Journal	N/A IAW TCM MSB 00-5D
2010-11-04	06/16/10	Hydraulic Valve Lifters	N/A IAW TCM MSB09-08A
2011-26-07	01/24/12	Slick Magnetos	N/A by Magneto Manufacturer & M/N
2012-03-06	02/24/12	AVStar Fuel Systems (AFS) Fuel Servo Diaphragm	N/A, Subject Parts Not Installed
Hartzell BHC-J2YF-1BF/F7694			
2001-07-03	06/04/01	Propellers Returned to Service by BASCO	N/A by S/N
2001-23-08	12/24/01	Propeller Hub	N/A by Installation Configuration
2003-01-03	01/23/03	Aluminum Hub Replacement	N/A by S/N
2005-14-11	08/17/05	Repair by Southern California Propeller Service	N/A IAW Paragraph (c)
2008-13-28	07/17/08	Propeller Hub Lubrication Holes	N/A by S/N
2009-22-03	11/12/09	Propeller Hub Front Cylinder Half	N/A by Propeller M/N
Appliances			
71-06-08	06/08/71	Cleveland Wheel & Brake Assemblies	N/A by P/N
74-24-13	12/05/74	United Instrument Altimeters	N/A by S/N
74-26-09	12/24/74	Bendix Magnetos	N/A by M/N
75-12-07	06/06/75	McCauley Propeller Governors	N/A by M/N
77-12-05	05/12/78	Champion Oil Filters	N/A by Manufacture Date Code
81-15-03	07/20/81	Brackett Engine Inlet Air Filters	N/A by Installation Configuration
81-21-05	10/19/81	Artex ELT Battery Packs	N/A, Subject Part Not Installed
82-20-01	06/14/83	Bendix Magnetos	N/A by M/N
84-26-02	01/29/85	Paper Induction Air Filters	N/A, Not Installed
86-05-02	05/28/86	United Instruments Altimeters	N/A by S/N
87-17-06	09/22/87	Am-Safe Occupant Restraint System	N/A by P/N
94-01-03 R2	06/28/95	Bendix Magnetos	N/A by Manufacturer (TCM) and S/N
94-06-09	03/09/94	Bendix Magnetos	N/A by S/N
96-09-06	06/07/96	Brackett Engine Inlet Air Filters	N/A by P/N
2002-26-03	02/18/03	Brackett Engine Inlet Air Filters	N/A by P/N
2005-01-19	02/23/05	Garmin GTX 33/33D Transponders	N/A by Software Version
2005-12-06	07/19/05	Bendix Impulse Couplings	N/A by M/N
2008-02-06	02/26/08	Garmin GSM 85 Autopilot Servo Mount	N/A, Not Installed
2010-01-03	01/20/10	Fire Fighting Enterprises Limited	N/A, Not Installed
2017-04-06	04/07/17	United Instruments Altimeters	N/A by S/N
2019-13-03	08/27/19	Trig Avionics Limited Transponders	N/A, Not Installed
2020-18-51	08/28/20	Sandia/King Attitude Indicator	N/A, Not Installed

N583PU

Non-Applicable Airworthiness Directives

Aircraft M/N:	SR20 S	Aircraft S/N:	2043
Engine M/N:	IO-360-E5	Engine S/N:	1037965
Propeller M/N:	BHC-J2YF-1BF/F7694	Propeller S/N:	EF498B

AD Number	AD Rev. Date	Subject	Reason For N/A
Cirrus Design Corporation SR20			
2001-25-03	12/17/01	Elevator Torque Tube and Rudder Hinge	N/A by S/N
2002-21-02	11/08/02	Roll and Yaw Trim Cartridge Retaining Nut	N/A by S/N
2002-24-08	01/24/03	Parachute Activation System Modification	N/A by S/N
2006-07-06	05/11/06	Fuel Line and Wiring Harness in Console	N/A by S/N
2006-19-10	10/24/06	Crew Seat Break-Over Bolt and Reclining Locks	N/A by S/N
2006-21-03	11/17/06	POH, Brake Caliper Overheating Damage	N/A by S/N
2007-14-03	08/16/07	Parachute System Pick-Up Collar Support and Screws	N/A by S/N
2008-03-16	03/11/08	Rudder-Aileron Interconnect Rigging	N/A by S/N
2008-11-18	07/07/08	Engine Exhaust and Heat Exchanger	N/A by S/N
2008-14-13	08/14/08	Cabin Door Rod Ends and Hinge Pin	N/A by S/N
Teledyne Continental Motors IO-360-E5			
70-14-07	11/22/74	Fuel Injection Pump	N/A by Engine M/N
74-18-07	08/28/74	Cylinder Failure	N/A by Engine M/N
81-13-10 R1	11/20/81	Oil Pump Drive Gear	N/A by Engine M/N
91-19-03	09/29/91	Champion Oil Filter	N/A IAW Paragraph (b)
92-04-09	06/22/93	Rocker Arm Shaft Hold Down Studs	N/A IAW TCM MSB M92-4R1
93-10-02	08/12/93	Cylinder Valve Retainer Key	N/A IAW TCM MSB93-12
95-21-15	11/28/95	Engine Teardown and Inspection	N/A by Engine M/N
96-12-22	07/31/96	Oil Filter Adapter Assembly Nut	N/A, Subject Part Not Installed
97-26-17	01/23/98	Airmelt Crankshaft	N/A by Manufacture Date
98-17-11	10/19/98	Crankshaft Cracks	N/A by Engine M/N
98-19-02	11/09/98	Superior Air Parts Piston Rings	N/A by Engine M/N
2000-23-21	12/12/00	Crankshaft Connecting Rod Journal	N/A IAW TCM MSB 00-5D
2010-11-04	06/16/10	Hydraulic Valve Lifters	N/A IAW TCM MSB09-08A
2011-26-07	01/24/12	Slick Magnetos	N/A by Magneto Manufacturer & M/N
2012-03-06	02/24/12	AVStar Fuel Systems (AFS) Fuel Servo Diaphragm	N/A, Subject Parts Not Installed
Hartzell BHC-J2YF-1BF/F7694			
2001-07-03	06/04/01	Propellers Returned to Service by BASCO	N/A by S/N
2001-23-08	12/24/01	Propeller Hub	N/A by Installation Configuration
2003-01-03	01/23/03	Aluminum Hub Replacement	N/A by S/N
2005-14-11	08/17/05	Repair by Southern California Propeller Service	N/A IAW Paragraph (c)
2008-13-28	07/17/08	Propeller Hub Lubrication Holes	N/A by S/N
2009-22-03	11/12/09	Propeller Hub Front Cylinder Half	N/A by Propeller M/N
Appliances			
71-06-08	06/08/71	Cleveland Wheel & Brake Assemblies	N/A by P/N
74-24-13	12/05/74	United Instrument Altimeters	N/A by S/N
74-26-09	12/24/74	Bendix Magnetos	N/A by M/N
75-12-07	06/06/75	McCauley Propeller Governors	N/A by M/N
77-12-05	05/12/78	Champion Oil Filters	N/A by Manufacture Date Code
81-15-03	07/20/81	Brackett Engine Inlet Air Filters	N/A by Installation Configuration
81-21-05	10/19/81	Artex ELT Battery Packs	N/A, Subject Part Not Installed
82-20-01	06/14/83	Bendix Magnetos	N/A by M/N
84-26-02	01/29/85	Paper Induction Air Filters	N/A, Not Installed
86-05-02	05/28/86	United Instruments Altimeters	N/A by S/N
87-17-06	09/22/87	Am-Safe Occupant Restraint System	N/A by P/N
94-01-03 R2	06/28/95	Bendix Magnetos	N/A by Manufacturer (TCM) and S/N
94-06-09	03/09/94	Bendix Magnetos	N/A by S/N
96-09-06	06/07/96	Brackett Engine Inlet Air Filters	N/A by P/N
2002-26-03	02/18/03	Brackett Engine Inlet Air Filters	N/A by P/N
2005-01-19	02/23/05	Garmin GTX 33/33D Transponders	N/A by Software Version
2005-12-06	07/19/05	Bendix Impulse Couplings	N/A by M/N
2008-02-06	02/26/08	Garmin GSM 85 Autopilot Servo Mount	N/A, Not Installed
2010-01-03	01/20/10	Fire Fighting Enterprises Limited	N/A, Not Installed
2017-04-06	04/07/17	United Instruments Altimeters	N/A by S/N
2019-13-03	08/27/19	Trig Avionics Limited Transponders	N/A, Not Installed
2020-18-51	08/28/20	Sandia/King Attitude Indicator	N/A, Not Installed



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

Form Approved
OMB No. 2120-0020
2/28/2011

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. 1421). 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 N583PU	Serial No. 2043
	Make Cirrus Design Corporation	Model SR
2. Owner	Name (As shown on registration certificate) Trustees of Purdue University	Address (As shown on registration certificate) Address 401 S Grant St. City West Lafayette Zip 47907-2024
		State IN
		Country USA

3. For FAA Use Only

4. Type		5. Unit Identification		
Repair	Alteration	Unit	Make	Model
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME		(As described in Item 1 above)
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT		
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER		
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type	
			Manufacturer	

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency		C. Certificate No. 2785650
Name Mark Hopkins Address 1701 Sandpiper Dr. City West Lafayette Zip 47906		State IN Country USA		
D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.				
Extended range fuel per 14 CFR Part 43 App. B <input type="checkbox"/>		Signature/Date of Authorized Individual Mark Hopkins <i>Mark Hopkins 8-7-2015</i>		

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	<input type="checkbox"/> FAA Fit Standards Inspector	<input type="checkbox"/> Manufacturer	<input type="checkbox"/> Maintenance Organization	Person Approved by Canadian Department of Transport Other (Specify)
	<input type="checkbox"/> FAA Designee	<input type="checkbox"/> Repair Station	<input checked="" type="checkbox"/> Inspection Authorization	
Certificate or Designation No. 2785650		Signature/Date of Authorized Individual Mark Hopkins <i>Mark Hopkins 8-7-2015</i>		

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.)

N583PU

08/07/2015

Nationality and Registration Mark

Date

Removed Alakai Engine Trend Monitoring System (ETMS), optional Wireless Link, all associated wiring, and ETMS mounting bracket, which were originally installed by Cirrus Design Factory Service Center under Supplemental Type Certificate # SA03407AT in accordance with FAA Form 337 dated 10/22/2010.

Removed:

- 1) ETMS unit (P/N: 500100-1), Vertical Mounting Bracket (P/N: 500174), and associated mounting hardware from Access Panel CF2L, located forward of the LH crew seat at F.S. 135.
- 2) Wireless Unit Assembly (P/N: 500178) and associated mounting hardware from the aft side of the 222 bulkhead at F.S. 224.
- 3) Wiring harnesses and networking cables (Installation Kit P/N: 500160-4 and P/N: 500175) between the ETMS unit, Wireless Unit Assembly, GIA #1, circuit breaker panel, and flap actuator.
- 4) Alakai ETMS Operating Handbook and User's Manual (P/N: 500130) from Section 9 (Supplements) of the Pilot's Operating Handbook and Airplane Flight Manual (POH/AFM).
- 5) Alakai Wireless Link Operating Handbook and User's Manual (P/N: UM500175) from Section 9 (Supplements) of the Pilot's Operating Handbook and Airplane Flight Manual (POH/AFM).

Revised Aircraft Weight & Balance and Equipment List to reflect removal of the Alakai ETMS and Wireless systems as listed above.

Since STC # SA03407AT has been removed in its entirety, the Instructions for Continued Airworthiness provided by Alakai Technologies for this STC under document number 20-001-ICA-STC-ETMS Revision 1.24 are no longer applicable.

----- End -----

☐ Additional Sheets Are Attached

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)				Form Approved OMB No. 2120-0020 2/28/2011		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			Serial No.			
	N583PU			2043			
2. Owner	Make			Model		Series	
	CIRRUS			SR		20	
	Name (As shown on registration certificate)			Address (As shown on registration certificate)			
	TRUSTEES OF PURDUE UNIVERSITY			Address 401 S GRANT ST City WEST LAFAYETTE State INDIANA Zip 47907-2024 Country UNITED STATES			
3. For FAA Use Only							
4. Type		5. Unit Identification					
Repair	Alteration	Unit	Make	Model	Serial No.		
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	_____	(As described in Item 1 above)		_____	
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT	_____				
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER	_____				
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type _____				
			Manufacturer _____				
6. Conformity Statement							
A. Agency's Name and Address				B. Kind of Agency			
Name Cirrus Design Factory Service Center				U. S. Certificated Mechanic		Manufacturer	
Address 4514 Taylor Circle				Foreign Certificated Mechanic		C. Certificate No.	
City Duluth State MN				<input checked="" type="checkbox"/> Certificated Repair Station		YD5R855Y	
Zip 55811 Country United States				Certificated Maintenance Organization			
D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.							
Extended range fuel per 14 CFR Part 43 App. B <input type="checkbox"/>			Signature/Date of Authorized Individual 10-22-2010				
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 <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Rejected							
BY	FAA Flt. Standards Inspector	Manufacturer	Maintenance Organization		Persons Approved by Canadian Department of Transport		
	FAA Designee <input checked="" type="checkbox"/>	Repair Station	Inspection Authorization		Other (Specify)		
Certificate or Designation No. YD5R855Y			Signature/Date of Authorized Individual 10/22/2010				

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.)

N583PU

Nationality and Registration Mark

10/22/2010

Date

Hobbs: 314.8
Flight: 236.7

Installed Alakai Engine Trend Monitoring System (ETMS), with optional Wireless Link, in accordance with the documents and instructions provided under Supplemental Type Certificate # SA03407AT. A brief summary of the systems installation has been provided below.

INSTALLED:

1) ETMS unit, P/N: 500100-1, Vertical Mounting Bracket P/N: 500174, and associated mounting hardware of parts list PL500160-04, to the Access Panel CF2L (Ref SR22 AMM 06-00, Fig 06-007) under the LH Crew Seat at F.S. 135 IAW Alakai DWG 500160 Rev 1.22.

2) Wireless unit Assembly P/N: 500178 and associated mounting hardware of kit P/N: 500175 to the AFT side of the 222 Bulkhead at F.S. 224 IAW Alakai DWG 500175-1 Rev 1.11a.

3) Wire harnesses and networking cables provided in kits 500160-4 and 500175 between the ETMS unit, Wireless Unit Assembly, GIA #1, C/B panel, Flap Actuator, and other indicated harness locations on the avionics deck IAW Alakai DWG 500175-1 and DWG 500161-2 Rev 1.35b.

*Note, a parking brake sense wire (from pin 6 of Alakai connector J3) and an autopilot disconnect sense wire (from pin 7 of Alakai connector J3) have been routed to the avionics deck and have been capped and stowed for possible use at a later date.

UPDATED:

1) Weights, Balance, and Equipment List to reflect the installations of the Alakai ETMS and Wireless systems.

2) Installed Alakai ETMS User's Manual P/N 500130, Revision 1.15 in Section 9 of the POH.

3) Installed Alakai Wireless Link User's Manual P/N UM500175, Revision 1.05 in Section 9 of the POH.

For a complete description of the installation reference the documents under Alakai Technologies Master Drawing List and the Cirrus Design Factory Service Center Work Order # 13905-10-2010, or contact the Cirrus Design Factory Service Center at (218) 788-3129.

Instructions for Continued Airworthiness have been provided by Alakai Technologies for this STC under document number 20-001-ICA-STC-ETMS Revision 1.24. Please see attached STC.

☒ Additional Sheets Are Attached

United States Of America
Department of Transportation - Federal Aviation Administration
Supplemental Type Certificate

Number SA03407AT

This Certificate issued to Alakai Technologies
22 Piazza Lane
Hopkinton, Massachusetts 01728

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 23 of the Federal Aviation Regulations.

Original Product Type Certificate Number: A00009CH
Make: Cirrus Design Corporation
Model: SR20, SR22

Description of Type Design Change:

Installation of Alakai "Passive" Engine Trend Monitoring System (ETMS) and optional "Passive" Broadband Unit in the Cirrus Design Corporation SR20 / SR22 aircraft in accordance with Alakai Technologies Master Document List, Document No. 20-001-MDL-STC-9430AT-A, Revision 1.3, dated November 17, 2008, or later FAA-approved revisions.

Limitations and Conditions:

1. Instructions for Continued Airworthiness (ICA), Alakai Technologies Document 20-001-ICA-STC-ETMS, Revision 1.22, dated November 17, 2008 or later FAA accepted revision shall be made available to the operator at the time of installation.
2. Compatibility of this design with previously approved modifications must be determined by the installer.

If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: October 5, 2006

Date reissued: May 2, 2007

Date of issuance: March 8, 2007

Date amended: November 18, 2008



By direction of the Administrator

(Signature)

Robert G. Mann
Manager
Boston Aircraft Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

WEIGHT AND BALANCE

Manufacturer: Cirrus
Model: SR20
S/N: 2043
N #: N583PU

DATE: November 06, 2019

SUPERSEDES COMPUTATIONS DATED: September 27, 2019

AIRCRAFT INITIAL WEIGHT, ARM, & MOMENT:

WEIGHT
2132.10

ARM
141.15

MOMENT
300940.17

REMOVED:

INSTALLED:

New Rocket and Shelf Additional Weight

1.34

231.40

310.08

SB2X-95-19R2 Wiring Modification

0.78

116.00

90.48

SB2X-95-24R2 Wiring Modification

0.10

116.00

11.60

TOTAL WEIGHT & MOMENT CHANGE:

2.22

412.16

MAXIMUM TAKEOFF WEIGHT

3050 lbs.

MAXIMUM LANDING WEIGHT

3050 lbs.

NEW EMPTY WEIGHT

2134.32 lbs.

NEW USEFUL LOAD NORMAL

915.68 lbs.

NEW C.G. in % MAC

16.97 % MAC

NEW CENTER OF GRAVITY

141.19 in.

NEW MOMENT

301,352.33 lb.in.

PURDUE
UNIVERSITY

Department of
Aviation Technology

SIGNATURE: Mark [Signature]

NAME:
A&P:

Vision Air Center
N/A

WEIGHT AND BALANCE

Manufacturer: Cirrus
Model: SR20
S/N: 2043
N #: N583PU

DATE: September 27, 2019

SUPERSEDES COMPUTATIONS DATED: February 15, 2018

AIRCRAFT INITIAL WEIGHT, ARM, & MOMENT:

REMOVED:

HET Starter P/N: PM2407

WEIGHT
2128.05

ARM
141.24

MOMENT
300563.52

10.20

93.00

948.60

INSTALLED:

Energizer Starter P/N: 646275-1

14.25

93.00

1325.25

*Superseded
11-6-19*

TOTAL WEIGHT & MOMENT CHANGE:

4.05

376.65

MAXIMUM TAKEOFF WEIGHT
MAXIMUM LANDING WEIGHT
NEW EMPTY WEIGHT
NEW USEFUL LOAD NORMAL
NEW C.G. in % MAC
NEW CENTER OF GRAVITY
NEW MOMENT

3050 lbs.
3050 lbs.
2132.10 lbs.
917.9 lbs.
16.87 % MAC
141.15 in.
300,940.17 lb.in.

PURDUE
UNIVERSITY

Department of
Aviation Technology

SIGNATURE: *Mark Hopkins*

NAME:
A&P:

Mark Hopkins
A&P 2785650

WEIGHT AND BALANCE

Manufacturer: Cirrus
Model: SR20
S/N: 2043
N #: N583PU

DATE: February 15, 2018

SUPERSEDES COMPUTATIONS DATED: April 28, 2016

AIRCRAFT INITIAL WEIGHT, ARM, & MOMENT:

WEIGHT	ARM	MOMENT
2127.25	141.26	300489.12

REMOVED:

Sky-Tec Starter C24ST5

9.40	93.00	874.20
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INSTALLED:

HET Starter, P/N PM2407

10.20	93.00	948.60
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TOTAL WEIGHT & MOMENT CHANGE:

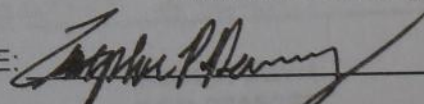
0.80

74.40

MAXIMUM TAKEOFF WEIGHT	3050 lbs.
MAXIMUM LANDING WEIGHT	3050 lbs.
NEW EMPTY WEIGHT	2128.05 lbs.
NEW USEFUL LOAD NORMAL	921.95 lbs.
NEW C.G. in % MAC	17.06 % MAC
NEW CENTER OF GRAVITY	141.24 in.
NEW MOMENT	300,563.52 lb.in.

PURDUE
UNIVERSITY

Department of
Aviation Technology

SIGNATURE: 

NAME:
A&P:

Christopher Ramsey
A&P 2838538

Service Bulletin Compliance

Aircraft Registration No. N583PU

Make & Model Cirrus SR20

Serial No. 2043

[illegible]