



US Department
of Transportation

Federal Aviation
Administration

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

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

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See Title 14 CFR FAR 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 N521BA	Serial No. 1614	
	Make CIRRUS DESIGN CORP	Model SR20	Series
2. Owner	Name (As shown on registration certificate) BESSETTE MARK F		Address (As shown on registration certificate) PO BOX 839 WEST OSS�PEE, NEW HAMPSHIRE 03890-0839

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		C. Certificate No.
SKYWORLD AVIATION INC. 5060 AIRPORT RD MIDLAND, VA 22728	<input checked="" type="checkbox"/>	U.S. Certificated Mechanic	A&P 3619887
	<input type="checkbox"/>	Foreign Certificated Mechanic	
	<input type="checkbox"/>	Certificated Repair Station	
	<input type="checkbox"/>	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 Brandon Feagan 07/09/2020
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7. Approval for Return to Service

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is APPROVED REJECTED

BY	FAA Fit. Standards Inspector	Manufacturer	Maintenance Organization	Person Approved by Canadian Department of Transport
	FAA Designee	Repair Station	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify)

Certificate or Designation No. A&P 3619887 IA	Signature/Date of Authorized Individual Brandon Feagan 07/09/2020
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NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

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

N521BA

Nationality and Registration Mark

07/09/2020

Date

Installed Garmin GDL 82, at FS# 108, 978 UAT ADS-B out with internal GPS receiver using Garmin STC Installation Manual pn 190-01810-10 Rev. 2. Installed using FAA policy memorandum approval for ADS-B OUT systems dated March 2, 2016. This ADS-B OUT system was shown to meet the performance requirements of 14 CFR 91.227. Interfaced GDL 82 for WASS GPS position input to existing Garmin GNS 430W. Mounted GDL82 using a fabricated bracket of 1/2" x 1/2" x 1/16th aluminum angle secured to existing rails underneath the glareshield. Referenced the criteria specified in AC 43.13-1B Chapters 11 and 12, and AC43.13-2B Chapters 1, 2 and 3 for installation. The equipment performed satisfactory and did not adversely affect existing components or systems in the aircraft as required by FAR 23.1309. An electrical load analysis was performed and found that the continuous load does not exceed 80% of rated capacity. Updated weight and balance placed in aircraft records.

GDL82 AFMS document# 190-01810-12 Rev. 2 placed in aircraft. Instructions for Continued Airworthiness, PN 190-01810-11 Rev. 2 for GDL82 and ICAs were supplied with the STC and placed in the aircraft records.

END

Additional Sheets Are Attached