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	U.S. Department
	Transportation
i	raderal Aviation
	Administration

# **MAJOR REPAIR AND ALTERATION**

Form Approved OMB No. 2120-0020 11/30/2007	Electronic Tracking Number
For F	AA Use Only

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INS	TRUC			1113 10		s. See Title 14 C This report is req	FR §4 juired	3.9, Part 43 App by law (49 U.S.0	pendix B, and AC 4 C. §44701). Failur	43.9- e to	1 (or subs report car	sequent n result	t revision thereof) for in a civil penalty for each	
Suci		Nationality				k		T:	Serial No.					
		USA	N	653G	S				1698					
1. A	ircraf	Make CIRRUS						ľ	Model Series SR20					
		Name (As	shown (	on regis	tration	n certificate)			Address (As shown o	n reg	istration ce	rtificate)		
	·	SHIELI	OS GI	REGO	RY	T		12403 BROOKS XING						
2. C	)wner								FISHERS, IN 46037-9547 USA				~	
								3. For FAA U	se Only					
	4. 7	Гуре						5. Unit Identif	ication					
Re	epair	Alteration		Unit	72.2 3	l	Make		N	Mode	l		Serial No.	
			AIRF	RAME					(As described i	n Ite	m 1 abov	/e)		
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A. /	Agenc	y's Name and	d Addre	ess				B. Kind of A				1		
NexAir Avionics LLC											Manufacturer Certificate No.			
		JTH MEADO												
GATE 6, HANGAR SW-1 PLYMOUTH, MA 02360 USA						X Certificated Repair Station N4OR087B  Certificated Maintenance Organization				, B				
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D.	have	been made in	n accor	rdance	with	ion made to the or the requirement to the best of my	s of P	art 43 of the U.	m 5 above and de S. Federal Aviation	escrit on Re	egulations	e revers s and th	se or attachments hereto nat the information	
Exte	ended r	ange fuel		S	Signat	ture/Date of Authori	ized Inc	dividual					JOSEPH J. DEBELLA	
		R Part 43		≥ إ	*	<i>TD</i>							10-July-2019	
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BY		FAA Designee		x	Repa	ir Station		Inspection Author	rization	Othe	er (Specify)	)		
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100000000000000000000000000000000000000	ignatio ORO87	on No.				111							MICHAEL REARICK	
74	OKO B	<b>B</b>			1								10-July-2019	

## NOTICE

ght and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be mpatible 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.)

N653GS

Jul-10-2019

Nationality and Registration Mark

Date

ALL WORK PERFORMED CONFORMS TO THE PARAMETERS SET FORTH IN THE FARS AND THE RECOMMENDATIONS AND

GUIDELINES SET FORTH IN AC43.13-1B AND AC43.13-2B.

FAA ADVISORY CIRCULAR 43.13-1B, CHAPTER 10, WEIGHT AND BALANCE

FAA ADVISORY CIRCULAR 43.13-1B, CHAPTER 11, AIRCRAFT ELECTRICAL SYSTEMS

FAA ADVISORY CIRCULAR 43.13-1B, CHAPTER 12, AIRCRAFT AVIONICS SYSTEMS

FAA ADVISORY CIRCULAR 43.13-2B, CHAPTER 1, PARA. 100 THROUGH 114, STRUCTURAL DATA

FAA ADVISORY CIRCULAR 43.13-2B, CHAPTER 2, PARA. 200 THROUGH 210, RADIO INSTALLATIONS

FAA ADVISORY CIRCULAR 43.13-2B, CHAPTER 3, PARA. 300 THROUGH 312, ANTENNA INSTALLATIONS

## REMOVED THE FOLLOWING:

GNS 430WNAV/COM/GPS #1

GNS 430W NAV/COM/GPS #2

STEC 55X AUTOPILOT

**GTX 327 TRANSPONDER** 

### INSTALLED THE FOLLOWING:

- 1. AVIDYNE IFD550 NAV/COM/GPS PN:700-00182-020 IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION MANUAL, 600-00299-000, REV 17 DATED 05/09/2019. FOR REGULATORY COMPLIANCE PLEASE REFERENCE AVIDYNE STC NO. SA00343BO.
- 2. AVIDYNE IFD440 NAV/COM.GPS PN: 700-00179-000 IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION MANUAL, 600-00299-000, REV 17 DATED 05/09/2019. FOR REGULATORY COMPLIANCE PLEASE REFERENCE AVIDYNE STC NO. SA00343BO.
- 3. AVIDYNE DFC 90 AUTOPILOT PN: 700-00170-000 IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION MANUAL, 600-00251-000, REV 09 DATED 09/02/2014. FOR REGULATORY COMPLIANCE PLEASE REFERENCE AVIDYNE STC NO. SA00296BO.
- 3. AVIDYNE AXP322 MODE S REMOTE TRANSPONDER PN:01481-00 PER AVIDYNE INSTALLATION MANUAL, P/N: 600-00312-000, REV 03 DATED 01/26/2017 AND ALL WORK DONE IN COMPLIANCE WITH STC NO. SA00352BO. FOR REGULATORY COMPLIANCE PLEASE REFERENCE THE FOLLOWING TSO APPROVAL:
- TSO-C112C (AIR TRAFFIC CONTROL RADAR BEACON SYSTEM/MODE SELECT (ATCBS/MODE S) AIRBORNE EQUIPMENT)
- TSO-C166B (EXTENDED SQUITTER AUTOMATIC DEPENDENT SURVEILLANCE BROADCAST (ADS-B) AND TRAFFIC INFORMATION SERVICE - BROADCAST (TIS-B) EQUIPMENT OPERATING ON THE RADIO FREQUENCY OF 1090 MEGAHERTZ (MHZ)
- 4. FREEFLIGHT ADS-B DATA RECEIVER PN:FDL-987-XVR IAW FREEFLIGHT INSTALLATION MANUAL DOCUMENT #87343 REV. J DATED 12/06/2018. ALL WORK DONE IN COMPLIANCE WITH FREEFLIGHT STC SA0242AK.

FREEFLIGHT INTERFACED WITH AVIDYNE IFD 550 IAW AVIDYNE MANUAL PN 600-00299-000.

PERFORMED MAINTENANCE OPERATION CHECK (MOC) AND FLIGHT TEST.

PERFORMED EMI TESTING IN ACCORDANCE WITH AC 43.13-1B PARA. 11-107, INTERFERENCE TESTS

UPDATED AIRCRAFT WEIGHT AND BALANCE AND AIRCRAFT EQUIPMENT LISTING.

POWER ASSESSMENT DONE IN ACCORDANCE WITH FAR REQUIREMENTS. POWER LOAD DOES NOT EXCEED 80% OF THE AIRCRAFT SYSTEM CAPACITY, DETERMINED BY CALCULATION.

THIS INSTALLATION HAS BEEN SHOWN TO MEET FAA REQUIREMENT FOR ADS-B OUTPUT AS DESCRIBED IN FAA ADVISORY **CIRCULAR AC20-165B AND FAR 91.227.** 

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS (LATEST REV.):

IFD 550/IFD 440: AVIFD-315

AXP 322: AVAXP-007

DFC 90: AVDFC-030



ADDITIONAL SHEETS ARE ATTACHED

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-	Γ	USA	N653GS	Jul-10-2019
	_	Nationality and	Registration Mark	Date
NOTES: LOGBOOK ENTRIES MADE PER FAR REQUIREMEN	ITS			
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Form 337 (10-06)	THOMAL SHEETS ARE F	TACHED		