MAJOR REPAIR AND ALTERATION

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

Electronic Tracking Number

U.S Department of Transportation (Airframe, Powerplant, Propeller, or Applia Federal Aviation Administration						Appliance)	For FAA Use Only					
and disp	osition of this	form. This	repor	ies. See FAR t is required b ederal Aviation	y law (49 t	J.S.C.	ppendix B, and AC . 1421). Failure to	43.9-1 (or subsequent r report can result in a civi	evision th I penalty	nereof) for instructions not to exceed \$1,000		
	Nation N17	ality and R	egistra	ation Mark		***************************************	Serial No. 1682 Model SR20					
1. Aircraft	Make	RUS DE	SIGN	N CORP						Series		
	Name	(As shown	on re	gistration cert	ificate)		Address (As shown on registration certificate)					
2. Owner	MOI	FFITT T	HON	AAS J				Address 519 SELFRIDGE RD City GANSEVOORT State NY				
						B. For FAA Use O	Zip 12831-1642 Country USA					
						3	. FOI FAA USE O	ny				
4.	Туре						5. U	nit Identification				
Repair	Alteration		Unit		Make		/lake	Model		Serial Number		
		AIRFR	AIRFRAME					(As described in Item 1 above)				
		POWE	POWERPLANT									
		PROPE	PROPELLER									
		APPLIA	APPLIANCE		Type Manufacturer							
						6.	. Conformity Stat	ement				
	Name and A						Cind of Agency		101	Manufactura		
Name TIDATITE TOTAL DEC						U.S. Certificated I Foreign Certificate			Manufacturer Certificate No.			
Address 265 FRUIT STREET city MANSFIELD State MA							N4	OR087B				
					Certificated Maint	intenance Organization						
have	been made it	accordance	ce with	ion made to the the requirem to the best of	ents of Pa	rt 43 c	ed in item 5 above of the U.S. Federal	and described on the rev Aviation Regulations an	erse or a	ittachments hereto information		
Extended ra per 14 CFR App. B				Signature/I	Date of Aut	thorize	ed Individual	Δ	4	4.10-2010		
							proval for Return					
N .				specified belo Iministration a	17			nspected in the manner JECTED	prescribe	d by the		
ву	FAA Fit Sta Inspector	andards		Manufacture	r		Maintenance Org	anization	Other	Person Approved by Canadian Department of Transport (Specify)		
	FAA Desig	nee	ee X Repair Statio		on		Inspection Authorization		Other	(opeony)		
Certificate of Designation N4OR08	No.		Sign	nature/Date of	Authorized	d Indiv	ridual	-	4.1	0.2010		

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	Accomp	lished
----	-------------	---------	--------	--------

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

USA N176PT

4.10.2010

Nationality and Registration Mark

Date

General:

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:

Avidyne EXP5000 Primary Flight Display

Avidyne EX5000 Multi-Function Display

Garmin GMA430 Audio Panel

Garmin GNS430W #1 NAV/COM/GPS

Garmin GNS430W #2 NAV/COM/GPS

Heads Up Technologies XM Weather Receiver

Installed the following:

- Avidyne Entegra Integrated Flight Display System (R9) Silver Package consisting of dual IFDs, PN: 700-00083-000 (Left) and PN: 700-00083-001 (Right), Control Display Unit, PN: 700-00150-002 and Aircraft Configuration Module, PN: 700-00156-000 per manufacturer's installation manual, 600-00160-000, Rev 03, dated September 11, 2009. For regulatory compliance please reference Avidyne STC/AML # SA00282BO.
- Avidyne Weather Data Link, MLB700, PN: 700-00159-000 in accordance with manufacturer's installation manual, 600-00174-000, Rev 04 dated May 13, 2007. For regulatory compliance please reference Avidyne R9 STC/AML # SA00282BO and the following TSO approvals:
 - FAA TSO-C157
- 3. PS Engineering PM8000B Audio Panel, PN: 050-890-0402 per manufacturer's installation manual 200-890-0101, Rev 1, dated February, 2010. For regulatory compliance please reference Avidyne R9 STC/AML # SA00282BO and the following TSO approvals:
 - FAA TSO-C50c and C35d

Fabricated instrument panel following original Manufacturers specifications.

R9 Silver package is single ADAHRS and uses the existing Magnetometer/OAT assembly.

New Audio Panel and Keyboard installed in the original radio rack. No structural modifications were needed.

MLB700 Installed in same location as removed XM Receiver. No structural modifications were needed.

Performed Maintenance Operation Check (MOC).

Performed Flight Test

Performed EMI Testing in accordance with AC 43.13-1B Para. 11-107, Interference Tests

Updated Aircraft Equipment Listing

Updated Aircraft Weight and Balance

Power assessment done in accordance with FAR requirements. Power load does not exceed 80% of the aircraft system capacity, determined by calculation.

Additional Sheets Are Attached



NEXAIR AVIONICS Mansfield Airport (1B9), Mansfield MA 02048

REVISED AIRCRAFT WEIGHT AND BALANCE REPORT AND SUPPLEMENTAL EQUIPMENT LIST

Aircraft Make and Model: Cirrus SR20 Aircraft Serial Number: 1682 Aircraft Registration Number: N176PT Date of This Revision: April 10, 2010

Date of Previous Revision: Time of Delivery W&B 1-8-08

			***** LON	IGITUDINAL	****
			WEIGHT	ARM	MOMEN
QTY	DESCRIPTION		(lbs.)	(in.)	(lb./in.)
TEMS IN	NSTALLED			444.70	0040.00
1	Avidyne R9 IFD #1 - IFD5000i		17.80	114.79	2043.26
1	Avidyne R9 IFD #2 - IFD5000i		16.70	119.69	1998.82
1	Avidyne FMS Keyboard - ACD215		2.30	125.51	288.67
1	Avidyne Configuration Module - ACM		0.20	108.79	21.76
1	Avidyne Weather Data Link - MLB700		1.60	114.00	182.40
1	Avidyne WX Antenna		0.25	195.25	48.81
1	Avidyne R9 Harness Assembly		15.50	119.00	1844.50
1	PS Engineering PM8000B-Avidyne Audio Panel		1.34	121.50	162.81
		TOTAL ADDED	55.69		6591.04
TEMS R	REMOVED		10.00	445.50	4000 00
1	Avidyne Entegra PFD - EXP5000		12.00	115.50	1386.00
1	Avidyne Entegra MFD - EX5000		6.40	121.80	779.52
1	Garmin GMA340 Audio Panel		1.50	121.50	182.25
1	Garmin GNS430W GPS		5.00	121.00	605.00
1	Garmin GNS430W GPS		5.00	122.40	612.00
1	Heads Up Technologies WX Receiver		1.70	114.00	193.80
		TOTAL REMOVED	31.60	40	3758.57
		TOTAL CHANGE	24.09		2832.47

NEW WEIGHT & BALANCE, DATED:April 10, 2010

BASIC EMPTY WEIGHT: 2192.09 LONGITUDINAL EWCG: 139.89 LONGITUDINAL MOMENT: 306648.47

DATE: April 10, 2010

PREPARED: David L. Fetherston A&P 3354619

NOTE:

It is the responsibility of the pilot in command to insure that the aircraft is properly loaded using the above Weight and Balance data and the owners manual loading charts.