STCs AND 337s

Bepartment of Transportation - Federal Abiation Administration

Supplemental Type Certificate

th Number SE10589SC

This Certificate issued to

Engine Technologies, Inc. 400 Airport Road Ada, OK 74820

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 33 of the Federal Aviation Regulations.

Original Product Type Certificate Number:

E3SO

Mako.

Teledyne Continental Motors

Model:

IO-550-N

Description of Type Design Change. Installation of turbonormalizing system in accordance with Engine Technologies, Inc. Master Drawing List Number ETI-G2-1, Rev. NC, dated November 1, 2006, or later FAA approved revision.

Limitations and Conditions.

- Approval of this change in type design applies to the above model engine only. This approval should not be
 extended to engines of this model on which other previously approved modifications are incorporated unless it is
 determined that the interrelationship between this change and any of those other previouslyapproved
 modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of that
 engine. 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.
- 2. A copy of this Certificate must be maintained as part of the permanent records of the modified engine.

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 Tederal Robation Administration.

Date of application : August 27, 2004

Date reissued:

Date of issuance: November 08, 2006

Dato amondod:



S. Frances Cox

Manager, Special Certification Office

Southwest Region

(Title)

difection of the Administrator

(Signature)

Bepartment of Transportation - Nederal Abiation Administration

Supplemental Type Certificate

Number SA10588SC

This Certificate issued to

Engine Technologies, Inc. 400 Airport Road Ada, OK 74820

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:

SR22

Description of Type Design Change. Installation of modified Teledyne Continental Motors IO-550-N engine equipped with turbonormalizing system in accordance with Engine Technologies, Inc. Master Drawing List Number ETI-G2-1, Rev. NC, dated November 1, 2006, or later FAA approved revision.

Limitations and Conditions

- 1. Installation of STC SE10589SC is required.
- 2. Approval of this change in type design applies to the above model aircraft only. This approval should not be extended to aircraft of this model on which other previously approved modifications are incorporated unless it is determined that the interrelationship between this change and any of those other previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of that aircraft. 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.

(See continuation sheet 3 of 3)

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 Sociation Administration.

Date of application. August 27, 2004

Date reissued:

Date of issuance November 08, 2006

Date amended:



S. Frances Cox

Manager, Special Certification Office

Southwest Region

(Title)

Signature)

Bepartment of Transportation - Nederal Abiation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number SA10588SC

Date of Issuance: November 08, 2006

Limitations and Conditions (Continued):

- A copy of this Certificate and the FAA approved Flight Manual Supplement, Engine Technologies, Inc. Report 215-6, dated November 8, 2006, or later FAA approved revision, must be maintained as part of the permanent records of the modified aircraft.
- 4. An oxygen system meeting the requirements of 14 CFR Part 23, Secs. 23.1441 through 23.1449 must be installed in conjunction with this STC.

Certification Basis. The type certification basis is as shown on TCDS A00009CH plus the equivalent level of safety to FAR 23.1091(b)(4) number ACE-06-06.

-End-

United States Of America Department of Transportation — Federal Abiation Administration

Supplemental Type Certificate

Number SA03962AT

This certificate issued to

Continental Motors, Inc. 2039 South Broad Street Mobile, Alabama 36615

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 Purt 23 of the Foderal. Aciation Regulations.

Criginal Product - Type Certificate Number : A00009CH

Make: Cirrus Design Corporation

Abodel: SR22

Description of Type Design Change:

Installation of Continental Motors, Inc. TSIO-550-N engine on SR22 aircraft previously modified by STC SA10588SC in accordance with Installation Instructions IMSR22T550N, Rev. ~, dated April 11, 2012, or later FAA approved revision. Type design data is contained in Master Drawing List Number B-500, Revision ~, dated April 12, 2012, or later FAA approved revision. Required airplane flight manual data is contained in AFM supplement number AFMSSR22T550N, Rev. ~, dated April 5, 2012 or later FAA approved revision. Required instructions for continued airworthiness are contained in Continental Motors, Inc. Aircraft Maintenance Manual Supplement Number AMMSSR22T550N.

Limitations and Conditions:

- 1. Approval of this change in type design applies to the above model aircraft only.
- 2. The installer must determine whether this design change is compatible with previously approved modifications. This approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated, unless it is determined by the installer that the interrelationship between this change and any other previously approved modifications will produce no adverse effect upon the airworthiness of that airplane. 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.

(See continuation sheet 2 of 2)

This certificate and the supporting data which is the basis for approval shall remain in offset until Ente of upplication: February 16, 2011

Late of issuance: April 19, 2012

Supporting data which is the basis for approval shall remain in offset until Enterprise of the supporting data which is the basis for approval shall remain in offset until Enterprise of the supporting data which is the basis for approval shall remain in offset until Enterprise of the supporting data which is the basis for approval shall remain in offset until Enterprise of the supporting data which is the basis for approval shall remain in offset until Enterprise of the supporting data which is the basis for approval shall remain in offset until Enterprise of the supporting data which is the basis for approval shall remain in offset until Enterprise of the supporting data which is the basis for approval shall remain in offset until Enterprise of the supporting data which is the basis for approval shall remain in offset until Enterprise of the supporting data which is the basis for approval shall remain in offset until Enterprise of the supporting data which is the basis for approval shall remain in offset until Enterprise of the supporting data which is the basis for approval shall remain in offset until Enterprise of the supporting data which is the basis for approval shall remain in offset until Enterprise of the supporting data which is the basis for approval shall remain in offset until Enterprise of the supporting data which is the basis for approval shall remain in offset until Enterprise of the supporting data which is the basis for approval shall remain in offset until Enterprise of the supporting data which is the basis for approval shall remain in offset until Enterprise of the supporting data which is the basis for approval shall remain in offset until Enterprise of the supporting data which is the basis for approval shall remain in offset until Enterprise of the supporting data which is the basis for approval shall remain in o

Any alteration of this certificate is punishable by . Time of not acceeding 5,,000, or impresonment not exceeding 3 years, or both.

(Title)

Enited States & Revision Original Issue f America Department of Transportation — Federal Abiation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number SA03962AT
Date of Issuance: April 19, 2012

Limitations and Conditions (Continued):

- A copy of this Certificate and the FAA approved Flight Manual Supplement, AFMSSR22T550N, Revision. ~, dated 04/05/2012, or later FAA approved revision, must be maintained as part of the permanent records of the modified aircraft.
- 4. An oxygen system meeting the requirements of 14 CFR Part 23, Secs. 23.1441 through 23.1449 must be installed in conjunction with this STC.

Virtification. Basis. The type certification basis is as shown on TCDS A00009CH plus the equivalent level of safety to FAR 23. 1091(b)(4) number ACE-06-06.

-End-

US Department
of Transportation
Federal Aviation
Administration

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

OMB No. 2120-0020	Electronic Tracking Number
11/30/2007	
F	or FAA Use Only

Federal	sportation Aviation stration		(Airfr	rame, I	Powerplant, I	Prop	eli	er, or App	liance)					
instru	ctions a	ONS: Print and dispos n. (49 U.S.	ition of	this form	ies. See Title 14 . This report is r	4 CF equir	R § ed b	43.9, Part 43 by law (49 U.S	Appendix B, ar S.C. §44701). Fa	nd AC nilure	43.9- to repo	1 (or sub ort can re	osequent rev sult in a civi	vision thereof) for I penalty for each
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Extended range fuel Signature/Date of Authorize per 14 CFR Part 43 App. B					zed I	Individual		>	l	4 ,	NAR	2016		
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J.	FAA	Designee		Rep	pair Station	×	In	spection Auth	orization	Othe	r (Spe	cify)		
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•		01971A		Ма	rch 14, 2016			Steve Miller	\mathcal{A}	.v-	ہ ک	/		<u> </u>

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.

			USA N8AE		14MARZ	OIC
			Nationality and Regis	tration Mark	Date	
Removed engine M/N IO-550-N S/N 691542. Installed CMI rebuilt engine M/N TSIO-550-N1B S/N 1031045 IAW STC# SA03962AT-E with reference to installation instructions IMSR22T550N. 0.0hrs Time since Rebuilt.						
		END				
		·				

Department of Transportation—Federal Aviation Administration

Supplemental Type Certificate

Number SA01708SE

This certificate, issued to

Precise Flight, Inc. 63354 Powell Butte Rd. Bend. OR 97760

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 Siegulations.

Original Product — Type Certificate Number:

A00009CH

Make:

Cirrus Design Corporation

Model:

SR22

Description of the Type Design Change. Installation of the fixed oxygen system manufactured in accordance with Precise Flight Engineering Drawing Lists: 102N0000 Revision A, 100N0000 Revision X, 027N0000 Revision C, 026N0000 Revision C, 020N0000 Revision F, 010N0000 Revision H, and 009N0000 Revision B or later FAA approved revisions. Installed in accordance with Precise Flight Engineering Drawing List 102N0000 revision A or later FAA approved revision. Maintained in accordance with the Instructions for Continued Airworthiness Precise Flight Document 102NMAN0003 Revision A, dated October 3, 2006 or later approved revision or document.

Limitations and Conditions. Approval of this change in type design applies to the above model aircraft only. This approval should not be extended to other aircraft of these models on which other previously approved modifications are incorporated unless it is determined that the relationship between this change and any of those other previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of that aircraft.

See Continuation Sheet, page 3

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

Date of application:

August 1, 2006

Date reissued

Date of issuance:

October 4, 2006

Date amended:



Federal Aviation Administration.

(Signature)

Acting Manager, Seattle Aircraft
Certification Office

(Title)

Department of Transportation—Hederal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number SA01708SE

Precise Flight, Inc.

Reissued: Amended:

Limitations and Conditions: (cont'd)

A copy of this Certificate and the FAA approved Airplane Flight Manual Supplement (AFMS), Precise Flight Document 102NMAN0001, dated October 2, 2006 or later approved revision, must be maintained as part of the permanent records for the modified aircraft. This oxygen system installation is qualified to operate up to 25,000 ft MSL but, this installation does not change the maximum operating altitude of the airplane on which it is installed.

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.

Benartment of Transportation - Nederal Abiation Administration

Supplemental Type Certificate

Number SA00296BO

This Certificate issued to

Avidyne Corporation 55 Old Bedford Road Lincoln, Massachusetts 01773

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the aircoorthiness requirements of Part 28 of the Federal Aviation Regulations.

Criginal Product Type Certificate Number :

A00009CH

Cirrus Design Corporation

Abodel: SR20, SR22

Description of Type Design Change:

Installation of:

- Model DFC90, p/n 700-00170-000, loaded with Release 2 software (or later FAA approved release)
- Model DFC100, p/n 700-00170-001, loaded with Release 2 software (or later FAA approved release)

Avidyne Corporation Autopilot as a replacement for the S-TEC System Autopilot, see Limitations and Conditions 3, in accordance with the Avidyne Corporation Master Document List, Document AVDFC-019, Rev 10, dated June 24, 2013, or later FAA-approved revision.

Bimitations and Conditions:

1. Operation must be in accordance with Avidyne Corporation Aircraft Flight Manual Supplement (AFMS) as follows:

For DFC90:

Document 600-00249-000, Rev 03, FAA approved on June 27, 2013, or later FAA-approved

For DFC100: Document 600-00271-000, Rev 02, FAA approved on December 22, 2011, or later FAA-approved

revision.

The AFMS must be carried in the aircraft during all flights.

(Limitations and Conditions continued on Page 3 of 4)

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

Late of application . October 16, 2009

Late reissued :

Gale of issuance . June 18, 2010

Date amended . July 21, 2010; February 03, 2011, March 04, 2011, December 22, 2011, June 27, 2013

By direction of the Relativistrator

Robert G. Mann Manager

Boston Aircraft Certification Office

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

Bepartment of Transportation - Nederal Abiation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number SA00296BO June 27, 2013

 $\textbf{INSTRUCTIONS:} \ \textbf{The transfer endorsement below may be used to notify the appropriate FAA Regional Office of the transfer of the Supplemental Type Certificate.}$

The FAA will reissue the certificate in the name of the transferee and forward it to him.

TRANSFER ENDORSEMENT

Transfer the ownership of Supplemental Type Certificate Number
to (Name of transferee)
(Address of transferee) (Number and street)
(City, State, and ZIP code) from (Name of grantor)(Print or type)
(Address of grantor)(Number & street)
(City, State, and ZIP code) Extent of Authority (if licensing agreement):
Date of Transfer:
Signature of grantor (In ink):

Bepartment of Transportation - Nederal Abiation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number SA00296BO

June 27, 2013

Limitations and Conditions: (continued from Page 1 of 4)

 Maintenance must be in accordance with Instructions for Continued Airworthiness (ICA), Document AVDFC-030, Rev 04, dated May 22, 2013, or later FAA accepted revision.

The ICA must be made available to the operator at the time of installation.

3. Aircraft must be configured with an existing S-TEC Manual Electric Trim (MET) System and with an existing S-TEC Autopilot as follows in order to accomplish this STC:

Avidyne Corporation Autopilot	Existing S-TEC	S-TEC Part Number
	System 20 with 30ALT	01260-(), 01261-()
For DFC90	System 30	1260-(), 1261-()
	System 55(x) or 55(SR)	01192-()
For DFC100	System 55(x) or 55(SR)	01192-()

4. Aircraft must be configured with an existing Flight Display System as follows in order to accomplish this STC:

Avidyne Corporation Autopilot	Existing Flight Display System
For DFC90	Aspen Avionics, Inc. EFD1000 Primary Flight Display, p/n 910-00001-XXX, loaded with Release 2.6 software (or later FAA approved release).
FOI DEC90	Avidyne Primary Flight Display, p/n 700-00006-(), loaded with Release 8.0.4 software (or later FAA approved release) with Modification 55 installed.
For DFC100	Avidyne Integrated Flight Display, p/n 700-00083-() loaded with Release 9.2.1 software (or later FAA approved release).

5. Compatibility of this design with previously approved modifications must be determined by the installer.

Certification Basis:

Based on 14 CFR §§ 21.115 and 21.101, and the FAA policy for design changes that are identified as not significant in FAA Order 8110.48, the certification basis for the Cirrus Design Corporation SR20 and SR22 aircraft is as follows:

 a. The type certification basis for parts not changed or not affected by the change is shown on TCDS A00009CH.

(Certification Basis continued on Page 4 of 4)

Bepartment of Transportation - Federal Abiation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number SA00296BO

June 27, 2013

Contification Basis. (continued from Page 3 of 4)

b. The certification for parts changed or affected by the change since the reference amendment date, June 27, 2013, is based upon part 23 as amended by Amendment 23-57 as follows:

Regulations at the latest amendment 23-0 through 23-57

23.301, 23.303, 23.305, 23.307(a), 23.337(a)(1)(b)(1), 23.341(a), 23.473(d)(g), 23.561(a)(b)(3)(e), 23.601 - 23.613, 23.771(a), 23.773(a)(2), 23.777(a)(b), 23.867(b), 23.1301, 23.1308(c), 23.1309(a)(1)(2)(b)(e), 23.1311(a)(2)(3)(4)(6), 23.1322, 23.1329, 23.1335, 23.1351(a)(1)(2)(i)(b)(1)(e)(f), 23.1357(a)(2)(b)(c)(d), 23.1359(c), 23.1365(a)(b)(d)(e)(f), 23.1367, 23.1381(a)(b), 23.1431(a)(b)(c), 23.1501, 23.1523, 23.1525, 23.1529, 23.1541(a), 23.1549(a), 23.1555(a)(b), 23.1581(a)(b)(2)(3)(f), 23.1583(m), 23.1585(j)

Regulations at an intermediate amendment

None

Regulations at the amendment level in TCDS A00009CH

None

US Department
of Transportation
Federal Aviation
A dual-late-at

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

Form Approved OMB No. 2120-0020 2/28/2011	Electronic Tracking Number
F	or 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

	struction	ns and dispos ation. (49 U.S.	ition o	f this	form.	This report is req	quire	ed by	y law (49 U.S	S.C. §44701). F	ailure	to repo	ert can re	sult in a civil penalty for each
_			Nationality and Registration Mark					Serial No.						
		USA N8	-							2999				
1. Ai	rcraft	Make								Model				Series
		CIRRUS	S DES	SIGI	N CO	RP				SR22				
		Name (As	show	n on	registi	ration certificate)				Address (As	showr	on reg	istration	certificate)
					-					Address 1016	SPR	ING V	LLASP	т
2. 0	wner ·									City WIN	TER S	PRIN	GS	State FL
		REISS	<u>LEAS</u>	ING	LLC	:				Zip <u>3270</u>	8		Coun	ntry USA
								3. F	or FAA Use	Only				
	4. T	уре						5. U	nit Identifica	ition				
R	ераіг	Alteration		Unit			Mak	æ			Mod	iel		Serial No.
		V	AIRF	RAM	E		_	_		(As described in Item 1 above)				
			POWERPLANT											
			PROI	PELL	.ER									
	_	_			_	Туре								
			APPL	IAN	CE	Manufacturer								
							6.	Cor	nformity Sta	tement				
A. A	gency's	Name and A	ddress				П	B. k	Cind of Agend	y				
Name		RASOTA AVI						Т	U. S. Certificated Mechanic Manufacturer			nufacturer		
Addre	ss <u>653</u>	0 Tampa Exe	ecutiv	e Air	port F	Road #125-A	_ [\Box	Foreign Certificated Mechanic C. Certificate No.			ficate No.		
City	Tan	•				State FL	-	1						
Zip	342	85co	untry U	SA					Certificated Maintenance Organization QV0D957X					957X
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.														
Exte	nded r	ange fuel			Signa	ture/Date of Auth	oriz	ed Ir	ndividual					
per 1 App.		R Part 43			3/9	/16	n	1.						
						7.	App	rov	al for Return	to Service				
Pu Ad	ırsuant İministr	to the authorator of the Fed	ority g deral A	iven viatio	perso on Adr	ns specified bel ministration and is	ow,	the		ed in item 5 Approved		inspect Rejecte		e manner prescribed by the
DV.		FAA Flt. Stand Inspector	lards		Man	ufacturer		Ма	intenance Or	ganization		Depar	tment of T	ed by Canadian ransport
BY		FAA Designee	,	✓	Repa	air Station		Ins	pection Auth	orization	Othe	er (Spe	cify)	
	ficate o				Signa	ture/Date of Auth	oriz	ed li	ndividual				_	
· ·		Designation No. QV0D957X 3/9/16 M												

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.

 Description of Work Accomplished (If more space is required, attach additional sheets. Identify with aircraft nati 	ionality and registration mark and dat	e work completed.)
	USA N8AE	3/9/16
	Nationality and Registration Mark	Date
Reference Material: Avidyne DFC 90 Installation Manual 600-00251-000 Rev: 09 Avidyne System Interface Cirrus 2X - System 20/30/55(X) 700 Avidyne Post Installation Configuration and Testing 700-00170		
Removed 55x (SN:0810-13366). Installed DFC-90 (SN: M153571994).		
Removed S-TEC 55X autopilot (SN: 0810-13366) and installed Avidyne installation manual PN: 600-00251-000 rev 09 per ST 13773-001 rev. B5. Updated equipment list, weight and balance negligible.	d Avidyne DFC-90 (SN: M153 C SA00296BO and Cirrus Ma	571994) autopilot IAW intenance Manual PN:
See document PN: 700-00170-XXX Rev: 01 for Instructions fo		
END		
✓ Additional She	ets Are Attached	

U.S. Department of Transportation Federal Aviation Administration

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

orm Approved DMB No. 2120-0020 1/30/2007	Electronic Tracking Number
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For FAA Use Only

n											
and dispos	sition of th	nis form.									
_			rk	_		Serial No					
USA N8AE			ark.				2999				
1. Aircraft Make CIRRUS					Model SR22				Series		
Name (As shown on registration certificate) FCPS LLC					Address (As shown on registration cer 58 STATE STREET STE 2 PORTSMOUTH, NH 03801-3824 USA						
					3. For FAA	Use Only					
pe					5. Unit Iden	tification					
Alteration	U	nit		Make			Mod	del		Serial No.	
X	AIRFRA	ME			(As described in Item 1		tem 1 abo	ove)			
	POWERPLAN										
	PROPE	LLER									
		NOT	Туре								
		NCE	Manufacturer								
					6. Conform	ity Statement			1		
Name and	Address	6			B. Kind of	Agency					
vionics	LLC				U.S.Ce	ertificated Mechan	ic		Manuf	facturer	
265 FRUIT STREET					Foreign Certificated Mecha			nic C. Certi		icate No.	
MANSFIELD, MA 02048 USA					X Certificated Repair Station N4OR087B						
that the re	n accorda	ince with	the requireme	nts of Pa	identified in it art 43 of the U	em 5 above and o	descri	bed on the	e reverse	or attachments hereto	
ed herein is	true and	correct	to the best of m	ny knowle	edge.					- W. B. W.	
ige fuel Part 43		Signa	1, 1	orized Ind	ivideal					ANDREW O'SHEA 05-May-2017	
				7. Appr	oval for Ret	urn to Service	***				
				elow, th	e unit identi	fied in item 5 w	as in			anner prescribed by the	
A FIt, Standa spector	ards	Mani	ufacturer		Maintenance O	rganization					
A Designee	3	₹ Repa	air Station		Inspection Auth	orization	Othe	er (Specify)			
No.	,	Signa	ture/Date of Author	orized Indi	ividual		>	-		MICHAEL REARICK 05-May-2017	
	pe Alteration S Name and ispose on. (49 U. Nationality USA Make CIRRU. Name (As FCPS Alteration X A that the recen made is ed herein is ge fuel Part 43 O the auth or of the tax FIL Stands spector A Designee T	pe Alteration APPLIA Name and Address Vionics LLC T STREET D, MA ARA That the repair and/ een made in accordated herein is true and end per fuel cart 43 To the authority give or of the Federal APIC Spector A Designee T	pe Alteration Unit ARFRAME POWERPLANT PROPELLER APPLIANCE S Name and Address AVIONICS LLC T STREET D, MA That the repair and/or alterateen made in accordance with a dherein is true and correct of the red herein is true and correct of the Federal Aviation AFIL Standards The Designee X Repair Signar Signar Signar Signar Signar A Designee X Repair S Signar Signar Signar Signar Signar Signar Signar A Designee X Repair Signar Si	IONS: Print or type all entries. See Title 14 and disposition of this form. This report is on. (49 U. S. 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The first of the suthority given persons specified below, the unit idention of the Federal Aviation Administration and is AFIL Standards pector A Designee X Repair Station Inspection Authorized Individual Inspection Authorized Individual Inspection Authorized Individual	ONS: Print or type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and A and disposition of this form. This report is required by law (49 U.S.C. §44701). Fe nor. (49 U.S.C. §44701). Fe nor. (49 U.S.C. §44701). Fe nor. (49 U.S.C. §44701). Fe nor. (49 U.S.C. §44701). Fe nor. (49 U.S.C. §44701). Fe nor. (49 U.S.C. §44701). Fe nor. (49 U.S.C. §44701). Fe nor. (49 U.S.C. §46301(a)). Nationality and Registration Mark USA NBAE 2999 Make 2999 Make 2999 Make SR22 Name (As shown on registration certificate) SR STATE 58 STATE 58 STATE 58 STATE 58 STATE 58 STATE 59 CPCRISMOUTH 03801–3824 3. For FAA Use Only 3. For FAA Use Only 3. For FAA Use Only PROPELLER PROPELLER APPLIANCE Manufacturer 6. 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Kind of Agency U.S. Certificated Mechanic Foreign Certificated Mechanic To STREET D. MA X Certificated Repair Station Certificated Repair Stat	IONS: Print or type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequen and disposition of this form. This report is required by law (49 U.S.C. §44701). Failure to report can result on (49 U.S. C. §44501(a)). Nationality and Registration Mark USA N8AE Make Anderess (As shown on registration certificate) FCPS LIC PORTSMOUTH, NH O3801-3824 USA 3. For FAA Use Only POWERPLANT PROPELLER APPLIANCE Manufacturer Appliance Manufacturer 6. Conformity Statement Single Appliance Manufacturer Foreign Certificated Mechanic Certif		

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.

	USA N8AE	May-03-201
	Nationality and Registration Mark	Date
ENERAL:		
LL WORK PERFORMED CONFORMS TO THE PARAMETERS SET F UIDELINES SET FORTH IN AC43.13-1B AND AC43.13-2B.	FORTH IN THE FARS AND THE RECOMMENDAT	TONS AND
AA ADVISORY CIRCULAR 43.13-1B, CHAPTER 10, WEIGHT AND BA AA ADVISORY CIRCULAR 43.13-1B, CHAPTER 11, AIRCRAFT ELEC AA ADVISORY CIRCULAR 43.13-1B, CHAPTER 12, AIRCRAFT AVIO AA ADVISORY CIRCULAR 43.13-2B, CHAPTER 1, PARA. 100 THROI AA ADVISORY CIRCULAR 43.13-2B, CHAPTER 2, PARA. 200 THROI AA ADVISORY CIRCULAR 43.13-2B, CHAPTER 3, PARA. 300 THROI	CTRICAL SYSTEMS NICS SYSTEMS UGH 114, STRUCTURAL DATA UGH 210, RADIO INSTALLATIONS	
EMOVED THE FOLLOWING:		
STALLED THE FOLLOWING:		
AEROSPACE LOGIC CIRRUS FUEL INDICATOR FOR CIES INC SE ISTALLATION MANUAL, S200-FL202G-001 REV 1.1 DATED DEC 201 EROSPACE LOGIC AML STC # SA02825NY AND THE FOLLOWING	14. FOR REGULATORY COMPLIANCE PLEASE	
FAA TSO-C55A (QUALIFIED SENDERS)		
GARMIN FLIGHT STREAM 210 REMOTE BLUETOOTH SYSTEM F EV 10 DATED AUG 2016 AND GARMIN AML STC # SA02019SE-D. F ANUAL 190-01700-00 REV B DATED OCT 2014 AND THE FOLLOWI	FOR REGULATORY COMPLIANCE PLEASE REF	
FAA TSO-C157 (XM WX DATA)		
EW COMPONENTS WERE INSTALLED IN THE ORIGINAL LOCATIO	ONS. NO STRUCTURAL MODIFICATIONS WERE	NEEDED.
ERFORMED MAINTENANCE OPERATION CHECK (MOC). PERFORM	MED FLIGHT TEST	
ERFORMED EMI TESTING IN ACCORDANCE WITH AC 43.13-1B PA	ARA. 11-107, INTERFERENCE TESTS	
PDATED AIRCRAFT WEIGHT AND BALANCE		
OWER ASSESSMENT DONE IN ACCORDANCE WITH FAR REQUIR IRCRAFT SYSTEM CAPACITY, DETERMINED BY CALCULATION	EMENTS. POWER LOAD DOES NOT EXCEED 8	30% OF THE
OTES: LOGBOOK ENTRIES MADE PER FAR REQUIREMENTS		
ISTRUCTIONS FOR CONTINUED AIRWORTHINESS: EROSPACE LOGIC CIRRUS FUEL INDICATOR FOR CIES INC SEND EV).	DERS FOR TWO TANKS (FL202G), P/N S200-FL	202G-001 (LATES
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Department of Cransportation - Federal Abiation Administration

Supplemental Type Certificate

Number SA02825NY

.This coelificate issued to Aerospace Logic Inc.

180 James Street South, Suite 205 Hamilton, Ontario Canada 1 8P3V1

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereen meets the niverenthiness requirements of the uttached FAA AML.

Criginal Bertheel Type Vertificate Number

. Make

* See attached FAA Approved Model List dated 07/28/2010 or later FAA approved revisions for the list of approved airplane

Observation of Type Tosign Valence: Installation of Aerospace Logic Aircraft Instruments, identified in document No. S200-CPL, Rev.1.0, dated 12/02/2009 or later Transport Canada approved revisions, as primary or secondary, new or replacement instruments. Installation must be in accordance with Aerospace Logic Document No. S200-CII., Rev. 1.0, dated 12/02/2009, Transport Canada approved 12/14/2009, or later Transport Canada approved revisions.

Limitations and Youditions:

(See Continuation Short 2 of 2)

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, received or a termination date is otherwise established by the Adaministrator of the Traderal . Eriation . Laborinistration

Lette of application: January 15, 2010

Late of issmener July 28, 2010

Sate amended

New York Aircraft Certification Office

(Tale)

Any electrics of this unitalicate is positivally by a find of our accounting \$1,000, it injusticement not becoming a year, or beta-75A Form (110-2(10-64) | Fage 1 of 2 This constitute may be transferred in econotine with EAR 21 47. United States of America

Department of Cransportation - Federal Abiation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number SA02825NY

Date of Issuance. July 28, 2010

Limitations and Conditions (Commed)

- 1. Operation of instruments utilizing an intensity control module must be in accordance with Aerospace Logic -Document S200-FMS, Rev. 1.0, dated 12/02/2009, Transport Canada approved 12/14/2009, or later Transport Canada revisions.
- 2. Installation limitations must be observed in accordance with Aerospace Logic Installation Limitations Statement - Document No. S200-II S, Rev. 1.0, dated 12/02/2009, Transport Canada approved 12/14/2009. or later Transport Canada approved revisions. The products are to be installed in existing panel holes and are to replace existing instrumentation. As primary replacement products it is recommended and preferred that they be placed in the same panel location as the original equipment. Their visibility and placement relative to other instruments are to be the same or similar to the existing instruments. Where they are in a different location, it is the responsibility of the installer to ensure that they are visible to the pilot under all conditions.
- 3. Maintenance must be in accordance with Aerospace Logic Instructions for Continued Airworthiness -Document No. \$200-ICA, Rev. 1.2, dated 5/04/2010 or later Transport Canada accepted revisions.
- 4. The installer must determine whether this design change is compatible with previously approved
- 5. If the holder agrees to permit another person to use this certificate to alter a product, the holder must give the other person written evidence of that permission.

.... END.

Any Aftersized of this certificate in punishable by a fiber is not expected \$1,000, or substituted and exceeding 1 cours, or both tan top with a firming tage of 2. The court care and be exacted in secondary with the all of