

**STCs**

**AND**

**337s**

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

*the 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  
*Make :* 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 ET-G2-1, Rev. NC, dated November 1, 2006, or later FAA approved revision.

*Limitations and Conditions:*

1. 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 previously approved 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 Federal Aviation Administration.*

*Date of application :* August 27, 2004

*Date reissued :*

*Date of issuance :* November 08, 2006

*Date amended :*



*By direction of the Administrator*

(Signature)  
S. Frances Cox  
Manager, Special Certification Office  
Southwest Region

(Title)

United States Of America  
Department of Transportation - Federal Aviation 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 ET1-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 Aviation Administration.*

*Date of application:* August 27, 2004

*Date reissued:*

*Date of issuance:* November 08, 2006

*Date amended:*



*By direction of the Administrator*

(Signature)  
S. Frances Cox  
Manager, Special Certification Office  
Southwest Region

(Title)

United States Of America  
Department of Transportation - Federal Aviation Administration  
**Supplemental Type Certificate**  
(Continuation Sheet)

*Number* SA10588SC  
Date of Issuance: November 08, 2006

*Limitations and Conditions* (Continued):

3. 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 Aviation 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 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 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 AMSSR22T550N.

*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 effect until*

*Date of application :* February 16, 2011

*Date issued :*

*Date of issuance :* April 19, 2012

*Date amended :*

*surrendered, suspended, revoked or a termination date*

*is otherwise established by the Administrator of the Federal Aviation Administration*



*By direction of the Administrator*

Melvin D. Taylor  
Manager  
Small 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.

# Supplemental Type Certificate

(Continuation Sheet)

*Number* SA03962AT

Date of Issuance: April 19, 2012

*Limitations and Conditions* (Continued):

3. 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.

*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-



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 §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 <b>USA N8AE</b>	Serial No. <b>2999</b>
	Make <b>Cirrus Design CORP</b>	Model <b>SR22</b>
2. Owner	Name (As shown on registration certificate) <b>Reiss Leasing, LLC</b>	
	Address (As shown on registration certificate) Address <b>1016 SPRING VILLAS PT</b>	
	City <b>Winter Springs</b>	State <b>FL</b>
	Zip <b>32826</b>	Country <b>United States</b>

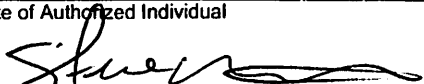
**3. For FAA Use Only**

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 <b>Steve Miller</b>	Address <b>6530 Tampa Executive Airport R</b> City <b>Tampa</b> State <b>FL</b> Zip <b>33610</b> Country <b>United States</b>	<input checked="" type="checkbox"/> U. S. Certificated Mechanic	Manufacturer
		<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.
		<input type="checkbox"/> Certificated Repair Station	<b>2700197</b>
		<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  <b>14 MAR 2016</b>
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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	Persons Approved by Canadian Department of Transport
	FAA Designee	Repair Station	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify)

Certificate or Designation No. <b>A&amp;P 27001971A</b>	Signature/Date of Authorized Individual <b>March 14, 2016 Steve Miller</b> 
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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 completed.)*

USA N8AE

Nationality and Registration Mark

14 MAR 2016

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

Additional Sheets Are Attached



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 Regulations.*

<i>Original Product—Type Certificate Number:</i>	A00009CH
<i>Make:</i>	Cirrus Design Corporation
<i>Model:</i>	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 Federal Aviation Administration.*

<i>Date of application:</i>	August 1, 2006	<i>Date reissued:</i>	
<i>Date of issuance:</i>	October 4, 2006	<i>Date amended:</i>	



*By direction of the Administrator*  
  
\_\_\_\_\_  
(Signature)  
Acting Manager, Seattle 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.

This certificate may be transferred in accordance with FAR 21.47.

# 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.

- END -

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

United States Of America  
Department of Transportation - Federal Aviation 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 herein 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:

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

*Limitations 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 revision.  
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 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 16, 2009

*Date reissued :*

*Date 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 Administrator*

*Robert G. Mann*  
FOR  
(Signature)

Robert G. Mann  
Manager  
Boston Aircraft Certification Office

United States Of America  
Department of Transportation - Federal Aviation Administration

# Supplemental Type Certificate

(Continuation Sheet)

*Number* SA00296BO

June 27, 2013

INSTRUCTIONS: 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.

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## 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*): \_\_\_\_\_

United States Of America  
 Department of Transportation - Federal Aviation Administration

# Supplemental Type Certificate

(Continuation Sheet)

*Number* SA00296BO

June 27, 2013

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

2. 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
For DFC90	System 20 with 30ALT	01260-( ), 01261-( )
	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).
	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)

United States Of America  
Department of Transportation - Federal Aviation Administration

# Supplemental Type Certificate

(Continuation Sheet)

*Number* SA00296BO

June 27, 2013

*Certification 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

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.

-----END-----



US Department of Transportation  
Federal Aviation Administration

## 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))

<b>1. Aircraft</b>	Nationality and Registration Mark <b>USA N8AE</b>	Serial No. <b>2999</b>	
	Make <b>CIRRUS DESIGN CORP</b>	Model <b>SR22</b>	Series
<b>2. Owner</b>	Name (As shown on registration certificate) <b>REISS LEASING LLC</b>	Address (As shown on registration certificate) Address <b>1016 SPRING VILLAS PT</b>	
		City <b>WINTER SPRINGS</b> State <b>FL</b>	Zip <b>32708</b> Country <b>USA</b>

### 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.	
Name <b>SARASOTA AVIONICS INC</b>		U. S. Certificated Mechanic		<b>QV0D957X</b>	
Address <b>6530 Tampa Executive Airport Road #125-A</b>		Foreign Certificated Mechanic			
City <b>Tampa</b> State <b>FL</b>		<input checked="" type="checkbox"/> Certificated Repair Station			
Zip <b>34285</b> Country <b>USA</b>		<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 <b>3/9/16</b>
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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

<b>BY</b>	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. <b>QV0D957X</b>	Signature/Date of Authorized Individual <b>3/9/16</b>
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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 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) 700-00170-000

Avidyne Post Installation Configuration and Testing 700-00170-XXX Rev: 01

Removed 55x (SN:0810-13366).

Installed DFC-90 (SN: M153571994).

Removed S-TEC 55X autopilot (SN: 0810-13366) and installed Avidyne DFC-90 (SN: M153571994) autopilot IAW Avidyne installation manual PN: 600-00251-000 rev 09 per STC SA00296BO and Cirrus Maintenance Manual PN: 13773-001 rev. B5.

Updated equipment list, weight and balance negligible.

See document PN: 700-00170-XXX Rev: 01 for Instructions for Continued Airworthiness.

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END

Additional Sheets Are Attached





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

**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))

<b>1. Aircraft</b>	Nationality and Registration Mark <b>USA N8AE</b>	Serial No. <b>2999</b>	
	Make <b>CIRRUS</b>	Model <b>SR22</b>	Series
<b>2. Owner</b>	Name (As shown on registration certificate) <b>FCPS LLC</b>		Address (As shown on registration certificate) <b>58 STATE STREET STE 2 PORTSMOUTH, NH 03801-3824 USA</b>

**3. For FAA Use Only**

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<b>AIRFRAME</b>	_____	<i>(As described in Item 1 above)</i>	_____
<input type="checkbox"/>	<input type="checkbox"/>	<b>POWERPLANT</b>			
<input type="checkbox"/>	<input type="checkbox"/>	<b>PROPELLER</b>			
<input type="checkbox"/>	<input type="checkbox"/>	<b>APPLIANCE</b>	Type		
			Manufacturer		

**6. Conformity Statement**

<b>A. Agency's Name and Address</b> <b>NexAir Avionics LLC</b> <b>265 FRUIT STREET</b> <b>MANSFIELD, MA</b> <b>02048 USA</b>	<b>B. Kind of Agency</b> <input type="checkbox"/> U. S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input checked="" type="checkbox"/> <b>Certificated Repair Station</b> <input type="checkbox"/> Certificated Maintenance Organization  <input type="checkbox"/> Manufacturer <b>C. Certificate No.</b> <b>N4OR087B</b>
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**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 	<b>ANDREW O'SHEA</b> <b>05-May-2017</b>
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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**

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

Certificate or Designation No. <b>N4OR087B</b>	Signature/Date of Authorized Individual 	<b>MICHAEL REARICK</b> <b>05-May-2017</b>
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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 completed.)

USA N8AE

May-03-2017

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:

### INSTALLED THE FOLLOWING:

1. AEROSPACE LOGIC CIRRUS FUEL INDICATOR FOR CIES INC SENDERS FOR TWO TANKS (FL202G) PER MANUFACTURER'S INSTALLATION MANUAL, S200-FL202G-001 REV 1.1 DATED DEC 2014. FOR REGULATORY COMPLIANCE PLEASE REFERENCE AEROSPACE LOGIC AML STC # SA02825NY AND THE FOLLOWING TSO APPROVALS:

" FAA TSO-C55A (QUALIFIED SENDERS)

2. GARMIN FLIGHT STREAM 210 REMOTE BLUETOOTH SYSTEM PER MANUFACTURER'S INSTALLATION MANUAL, 190-01007-A3, REV 10 DATED AUG 2016 AND GARMIN AML STC # SA02019SE-D. FOR REGULATORY COMPLIANCE PLEASE REFERENCE THE TSO MANUAL 190-01700-00 REV B DATED OCT 2014 AND THE FOLLOWING TSO APPROVALS:

" FAA TSO-C157 (XM WX DATA)

NEW COMPONENTS WERE INSTALLED IN THE ORIGINAL LOCATIONS. 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 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

NOTES: LOGBOOK ENTRIES MADE PER FAR REQUIREMENTS

### INSTRUCTIONS FOR CONTINUED AIRWORTHINESS:

AEROSPACE LOGIC CIRRUS FUEL INDICATOR FOR CIES INC SENDERS FOR TWO TANKS (FL202G), P/N S200-FL202G-001 (LATEST REV).

\*\*\*\*\* NOTHING FOLLOWS \*\*\*\*\*

ADDITIONAL SHEETS ARE ATTACHED

United States of America  
Department of Transportation - Federal Aviation Administration

**Supplemental Type Certificate**  
IMPORT

*Number* SA02825NY

*This certificate issued to:* Aerospace Logic Inc.  
180 James Street South, Suite 205  
Hamilton, Ontario  
Canada L8P4V1

*certifies that the change in the type design for the following product with the limitations and conditions therefore as specified herein meets the airworthiness requirements of the attached FAA AML.*

*Original Product Type Certificate Number:*

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

*Model:*

*Description of Type Design Change:* Installation of Aerospace Logic Aircraft Instruments, identified in document No. S200-CPI, 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-CH, Rev. 1.0, dated 12/02/2009, Transport Canada approved 12/14/2009, or later Transport Canada approved revisions.

*Limitations and Conditions:*

(See Continuation Sheet 2 of 2)

*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:* January 15, 2010

*Date received:*

*Date of issuance:* July 28, 2010

*Date amended:*



*By direction of the Administrator*

*Anthony Socas*  
Manager  
New York Aircraft Certification Office

(Title)

Any alteration of this certificate is prohibited by a fine of not exceeding \$1,000 or imprisonment not exceeding 1 year, or both.  
FAA Form 3370-2 (10-04) Page 1 of 2 This certificate may be transferred in accordance with FAR 21.47.

United States of America  
Department of Transportation - Federal Aviation Administration

**Supplemental Type Certificate**  
(Continuation Sheet)

*Number* SA02825NY

Date of Issuance: July 28, 2010

*Limitations and Conditions (Continued):*

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-IIS, 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. S200-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 modifications.
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 alteration of this certificate is prohibited by a fine of not exceeding \$1,000 or imprisonment not exceeding 1 year, or both.  
FAA Form 3370-2 (10-04) Page 2 of 2 This certificate may be transferred in accordance with FAR 21.47.