

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 hereon 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

(Signature)

Robert G. Mann
Manager
Boston Aircraft Certification Office

United States Of America
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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.

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*): _____

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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)

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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.

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