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 Avidyne Corporation Model DFC90 Autopilot, p/n 700-00170-000 or Model DFC100 Autopilot, p/n 700-00170-001, as a replacement for the S-TEC System 55X Autopilot, p/n 1192-( )-( ), in accordance with the Avidyne Corporation Master Document List, Document AVDFC-019, Rev 06, dated February 23, 2011, or later FAA-approved revisions.

Limitations and Conditions:

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

   For DCF90: Document 600-00249-000, Rev 01, FAA approved on July 21, 2010, or later FAA-approved revision.
   For DFC100: Document 600-00271-000, Rev 01, FAA approved on March 04, 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 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 : October 16, 2009

Date of issuance : June 18, 2010

Date reissued :

Date amended : July 21, 2010; February 03, 2011, March 04, 2011

By direction of the Administrator

(*Signature*)

Robert G. Mann
Manager
Boston 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.

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Supplemental Type Certificate

(Continuation Sheet)

Number SA00296BO

March 04, 2011

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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Supplemental Type Certificate

(Continuation Sheet)

Number SA00296BO

March 04, 2011

Limitations and Conditions: (continued from Page 1 of 3)

2. Maintenance must be in accordance with Instructions for Continued Airworthiness (ICA), Document AVDFC-030, Rev 02, dated November 23, 2010, 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 55X (or 55SR) Autopilot and must be configured with an existing Avidyne Flight Display System as follows in order to accomplish this STC:
   For DCF90: Avidyne Primary Flight Display, p/n 700-00006-( ), loaded with Release 8.0 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). See STC SA00282BO.
4. 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 significant changes 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 Cirrus Design Corporation SR20 and SR22 is shown on TCDS A00009CH for parts **not changed or not affected** by the change.

b. The certification for parts **changed or affected** by the change since the reference amendment date, March 04, 2011, is based upon part 23 as amended by Amendment 23-59. Based on 14 CFR §§ 21.115 and 21.101, and the FAA policy for significant changes in FAA Order 8110.48, the certification basis for this modification was determined to be:

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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