



United States of America
Department of Transportation
Federal Aviation Administration

Supplemental Type Certificate

Number: SA03488AT

This certificate issued to: Discovery Aviation, Inc.
100 Aerospace Drive, Unit 4
Melbourne, Florida 32901

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 23* of the Federal Aviation Regulations.

**(Continued on Page 3)*

Original Product – Type Certificate Number: A00008DE Make: Discovery
Model: XL-2

Description of Type Design Change:

Installation of a S-Tec System 30 Autopilot in accordance with the following:

- Option 1 (for use with S-Tec Model ST-901 GPS Steering Converter Unit): Chippewa Aerospace Master Data List (MDL) No. XL2-2210-01-0001, Revision 4, dated November 20, 2008, or later FAA approved revision, or
- Option 2 (for use with Aspen EFD1000 Primary Flight Display (PFD) navigation data input): Liberty Drawing Tree 135A-900-040, Revision A, dated May 28, 2010, or later FAA approved revision.

Limitations and Conditions:

Option 1 requires the following:

- a. FAA Approved Airplane Flight Manual Supplement (AFMS) for the S-Tec System 30 Autopilot System in the Liberty XL-2 Series Aircraft, Chippewa Aerospace Document No. XL2-2210-01-1012, Rev. 1, Dated December 29, 2008, or later FAA approved revision, is a required part of this STC, and
- b. Instructions for Continued Airworthiness (ICA), Chippewa Aerospace Inc. Document No. # XL2-2210-01-0002, Rev IR, dated June 18, 2007, or later FAA accepted revision must be made available to the operator at the time of installation.

(See Continuation on Sheet 3)

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

Date of Application: December 8, 2006 Date Reissued: June 22, 2009, December 13, 2013, May 5, 2015

Date of Issuance: August 31, 2007 Date Amended: December 29, 2008, July 19, 2010

By Direction of the Administrator

Signature _____

Title Manager, Atlanta Aircraft Certification Office

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 or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).



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INSTRUCTIONS: The transfer endorsement below may be used to notify the appropriate FAA Aircraft Certification Office of the transfer of this 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 and address of transferee)

From (Name and address of grantor)

Extent of Authority (if licensing agreement):

Date of transfer:

Signature of grantor: _____

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 or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).



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Supplemental Type Certificate

(Continuation Sheet)
Number: SA03488AT
Date Amended: July 19, 2010

Limitations and Conditions (Continued):

Option 2 requires the following:

- a. Installation of Aspen STC SA10822SC is a pre-requisite for this Option 2 autopilot installation, and
b. FAA Approved Airplane Flight Manual Supplement (AFMS) for the S-Tec System 30 Autopilot Integrated with an Aspen EFD1000 PFD/MFD, no revision, dated July 19, 2010, or later FAA approved revision, is a required part of this STC, and
c. Instructions for Continued Airworthiness (ICA), Liberty Aerospace Document No. 135A-970-110, Rev D, dated July 19, 2010, or later FAA accepted revision, must be made available to the operator at the time of installation.

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.

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 Liberty XL-2 aircraft is as follows:

- a. The type certification basis for Liberty XL-2 airplane is shown on TCDS A00008DE for parts not changed or not affected by the change.
b. The certification basis for parts changed or affected by the change since the reference date of application, September 17, 2008, is based upon part 23 as amended by Amendment 23-58. 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 23-58:

Table with 6 columns of regulation numbers: §23.301, §23.303, §23.305, §23.307, §23.603, §23.607; §23.672, §23.1301, §23.1307, §23.1309, §23.1322, §23.1353; §23.1357, §23.1529, §23.1543, §23.1558

Regulations at the amendment level in TCDS A00008DE

§23.1351

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