



United States of America
Department of Transportation
Federal Aviation Administration

Supplemental Type Certificate

Number: SA01866WI

This certificate issued to: Garmin International, Inc.
1200 East 151st Street
Olathe, KS 66062

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

Original Product – Type Certificate Number:
Multiple – AML STC

Make:
Model: See FAA Approved Model List (AML) SA01866WI for approved aircraft models and applicable airworthiness regulations

Description of Type Design Change:

Installation of Garmin GFC 500 Autopilot with Electronic Stability and Protection

Data Required:

- (1) Garmin Master Drawing List (MDL) 005-01264-00, Revision 1, dated December 21, 2017
- (2) Garmin GFC 500 Automatic Flight Control System Part 23 AML STC Maintenance Manual (includes Instructions for Continued Airworthiness) 190-02291-01, Revision 1, dated December 21, 2017

Later FAA-approved revisions to the data listed above are incorporated without amendment to this certificate

Limitations and Conditions:

- (1) Compatibility of this design change with previously approved modifications must be determined by the installer.
 - (2) Aircraft modified by this STC must be operated in accordance with the Airplane Flight Manual Supplement (AFMS) identified on the Approved Model List.
 - (3) Aircraft modified by this STC must be maintained in accordance with the Instructions for Continued Airworthiness (ICA) identified above.
- (continued on Page 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: August 24, 2017

Date Reissued:

Date of Issuance: December 21, 2017

Date Amended: March 15, 2019; May 4, 2020; September 10, 2020, October 15, 2020; November 13, 2020; April 27, 2021, November 12, 2021

By Direction of the Administrator

Signature _____

Title Robert G. Murray
ODA STC Unit Administrator
ODA-240087-CE

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: _____

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Supplemental Type Certificate

(Continuation Sheet)

Number: SA01866WI

November 12, 2021

- (4) The installation of a Garmin G5 Electronic Flight Instrument per Garmin AML STC SA01818WI or a Garmin G3X Touch EFIS per Garmin AML STC SA01899WI or a Garmin GI 275 per Garmin AML STC SA2658SE must be accomplished prior to or concurrent with this STC installation.
- (5) If the holder agrees to permit another person to use this certificate to alter the product, the holder must 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 this change is as follows:

- a. The certification basis for parts not changed or not affected by this change remains unchanged from the original approval.
- b. The certification basis for parts changed or affected by this change is:

<u>Section</u>	<u>Amdt.</u>	<u>Section</u>	<u>Amdt.</u>
23.143	23-50	23.863 (a)(b)	23-34
23.301 (a)	23-48	23.1301 (a)(b)(c)(d)	23-20
23.303	Orig.	23.1309 (a)(1)(2)(b)(c)(d)(e)	23-49
23.305 (a)(b)	23-45	23.1321 (e)	23-49
23.307 (a)	Orig.	23.1322	23-43
23.337	23-48	23.1329	23-49
23.395 (a)(1)	23-7	23.1331 (b)(1)	23-43
23.397 (a)(b)	23-45	23.1335	23-20
23.561 (a)(b)(3)(e)	23-48	23.1351 (a)(1)(2)(i)	23-49
23.601	Orig.	23.1353 (h)	23-49
23.603	23-23	23.1357 (a)(b)(c)(d)	23-43
23.605 (a)	23-23	23.1359	23-49
23.607 (a)(b)(c)	23-48	23.1365 (a)(b)(d)(e)	23-49
23.609	Orig.	23.1381 (a)	Orig.
23.611	23-48	23.1431 (a)(b)	23-49
23.613 (a)(b)	23-45	23.1501 (a)(b)	23-21
23.627	Orig.	23.1523 (a)(b)(c)	23-34
23.671 (a)(b)	Orig.	23.1525	23-45
23.675	23-17	23.1529	23-26
23.677 (a)(d)	23-49	23.1555 (a)(b)	23-21
23.681 (a)	Orig.	23.1581 (a)(b)(d)(f)	23-45
23.683	23-7	23.1583 (h)	23-45
23.685 (a)(c)(d)	23-17	23.1585 (a)	23-45
23.689 (a)(2)(3)(b)(c)(e)	23-7	23.2010 (a)(b)	23-64
23.771 (a)	23-14	23.2335	23-64
23.773 (a)(2)	23-45	23.2515 (a)(b)*	23-64
23.777 (a)(b)	23-33	23.2520 (a)(b)*	23-64
23.779 (a)	23-33		
23.853 (a)	23-49		

*23.2515(b) and 2520(b) are applicable to the GI 275 interface only.

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