

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

*Number* SA01444WI-D

*This certificate issued to*

Garmin International, Inc.  
1200 East 151<sup>st</sup> 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:* A47CE  
*Make:* Diamond  
*Model:* DA 40, DA 40F

*Description of Type Design Change:*

Upgrade of G1000 and GFC 700 AFCS software and installation of optional hardware upgrades including WAAS capability, optional Envelope Stability & Protection (ESP), and optional Synthetic Vision System (SVS).

Data Required:

- (1) Garmin Master Drawing List (MDL) 005-00400-01, Revision 1, Dated July 26, 2007 or later FAA-approved revision.
- (2) Garmin G1000/GFC700 Airplane Flight Manual Supplement (AFMS), 190-00492-10, Revision 1, Dated July 26, 2007 or later FAA-approved revision, or Garmin G1000 AFMS, 190-00492-11, Revision 1, Dated July 26, 2007 or later FAA-approved revision, or G1000/KAP140 AFMS, 190-00492-12, Revision 1, Dated February 28, 2008 or later FAA-approved revision, as required by the MDL.
- (3) If the optional SVS is enabled, the following are required:
  - a. Garmin MDL 005-00400-01, Revision 10 or later FAA-approved revision
  - b. Garmin G1000 Synthetic Vision And Pathways Option AFMS, 190-0492-08, Revision 1 or later FAA-approved revision
- (4) If the optional ESP is enabled, the following are required:
  - a. Garmin MDL 005-00400-01, Revision 10 or later FAA-approved revision
  - b. Garmin G1000 Electronic Stability And Protection (ESP) Option AFMS, 190-00492-09, Revision 1 or later FAA-approved revision

*Limitations and Conditions:* See 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.*

*Date of application:* Sept. 28, 2006

*Date reissued:* April 30, 2014

*Date of issuance:* July 26, 2007

*Date amended:* February 28, 2008; May 16, 2013



*By direction of the Administrator*

*Original signed by David Armstrong*  
(Signature)

David G. Armstrong  
ODA STC Unit Administrator  
ODA-240087-CE  
Garmin International, Inc

(Title)

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

INSTRUCTIONS: The transfer endorsement below may be used to notify the appropriate FAA Regional 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 the ownership of Supplement 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 and street)*

\_\_\_\_\_  
*(City, State and Zip code)*

Extent of Authority (if licensing agreement): \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Date of Transfer: \_\_\_\_\_

Signature of grantor *(In Ink)*: \_\_\_\_\_

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(Continuation Sheet)

*Number* SA01444WI-D

Date of Issuance: July 26, 2007  
Date Amended: February 28, 2008; May 16, 2013  
Date Reissued: April 30, 2014

*Limitations and Conditions (continued):*

1. Compatibility of this design change with previously approved modifications must be determined by the installer.
2. The modified aircraft must be operated in accordance with the applicable Airplane Flight Manual Supplement (AFMS) identified on the Master Drawing List, appropriate to the configuration installed on the aircraft.
3. 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.
4. Installation of STC #SA01254WI-D is a prior or concurrent requirement for all MDL Configurations.
5. Installation of STC #SA01389WI is a prior or concurrent requirement for the -1 and -2 MDL Configurations.
6. Aircraft equipped with the Honeywell KAP 140 autopilot are only eligible for the -5 and -6 MDL Configurations. \
7. Installation of the -3 and -4 MDL Configurations is permitted only on aircraft with no autopilot installed.
8. Aircraft modified by this STC shall be maintained in accordance with the Instructions for Continued Airworthiness defined by the MDL.

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 (Continuation Sheet)

**\*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 is shown on the TCDS listed on Page 1 of this Certificate.
- b. The certification basis for parts changed or affected by this change since the date of application is determined to be:

<b>Section</b>	<b>Amdt.</b>	<b>Section</b>	<b>Amdt.</b>
23.21(a)(b)	Orig.		
23.23(b)(3)	23-45		
23.29	23-21	23.1321(a)(c)(d)(e)	23-49
23.143(a)(b)(c)	23-50	23.1322	23-43
23.301(a)(b)(c)	23-48	23.1323(a)	23-49
23.303	Orig.	23.1327(a)	23-20
23.305	23-45	23.1329(a)(b)(d)(e)(f)(g)	23-49
23.307	Orig.	23.1335	23-20
23.397(a)(b)	23-45	23.1337(b)(1)	23-51
23.561(e)	23-48	23.1351(a)(g)	23-49
23.601	Orig.	23.1353(h)	23-49
23.603	23-23	23.1357(a)(1)(2)(b) (c)(1)(2)(d)	23-43
23.605(a)	23-23	23.1359(a)(b)(c)	23-49
23.607(a)(b)(c)	23-48	23.1365(a)(b)(d)(e)	23-49
23.609(a)	Orig.	23.1367(c)(d)	Orig.
23.611	23-48	23.1381(a)(b)	Orig.
23.613(a)(b)(2)(d)	23-45	23.1431(a)(b)(e)	23-49
23.671(a)(b)	Orig.	23.1501(a)(b)	23-21
23.677(a)(d)	23-49	23.1525	23-45
23.685(a)(d)	23-17	23.1529	23-26
23.689(b)(e)	23-7	23.1541(a)(1)(2)(b)(1)(2)(c)(2)	23-21
23.771(a)	23-14	23.1543(b)(c)	23-50
23.777(a)(b)	23-51	23.1545(a)(b)(1)(2)(3)(4)	23-50
23.867(a)(b)(c)	23-49	23.1549(a)(b)(c)	23-45
23.1301	23-20	23.1553	23-50
23.1303(a)(b)	23-49	23.1555(a)(b)	23-50
23.1305(a)(1)(2)(3)(b)(2)(3)(4)(i)(5)	23-52	23.1581(a)(b)(2)(3)(c)(d)(f)	23-50
23.1309(a)(1)(2)(b)(c)(d)(e)	23-49	23.1583(h)(m)(n)	23-50
23.1311(a)(1)(2)(3)(4)(7)(b)	23-49	23.1585(a)(1)(j)	23-50
23-139-SC	Orig.		

**Regulations at an intermediate amendment**  
 none

**Regulations at the amendment level shown on TCDS**  
 none

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