

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

*Number* SA01254WI-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:* DA40, DA40F

*Description of Type Design Change:*

Installation of the Garmin G1000 Integrated Avionics System in the Diamond DA 40, DA40F aircraft. Data Required:

**DA40** (1) Garmin Master Drawing List (MDL) 005-C0004-00, Revision F, dated June 22, 2004, and (2) FAA Approved Flight Manual Supplement (AFMS), Dwg. Number 190-00303-02, Revision 4, dated June 25, 2004 or later FAA approved revisions to (1) or (2)

(See Continuation Sheet 3 of 4)

*Limitations and Conditions:*

The modified aircraft must be operated in accordance with the applicable Airplane Flight Manual Supplement (AFMS) identified on the Master Drawing List. Compatibility of this design change with previously approved modifications must be determined by the installer.

(See Continuation Sheet 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:* March 06, 2003

*Date reissued:* July 5, 2007

*Date of issuance:* June 25, 2004

*Date amended:* July 18, 2005, July 16, 2009



*By direction of the Administrator*

*Robert Murray*  
\_\_\_\_\_  
(Signature)

Robert Murray  
ODA STC Unit Administrator  
ODA-240087-CE  
Garmin International, Inc.

\_\_\_\_\_  
(Title)

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)* \_\_\_\_\_  
*(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)*: \_\_\_\_\_

# Supplemental Type Certificate

(Continuation Sheet)

*Number* SA01254WI-D

Date of Issuance: June 25, 2004

Date Amended: July 16, 2009

*Description Of Type Design Change* (Continued):

**DA40F** (1) Garmin Master Drawing List (MDL) 005-C0004-00, Revision P, dated June 01, 2005; and (2) FAA Approved Flight Manual Supplement, (AFMS) Drawing 190-00303-02, Revision 7 dated June 27, 2005 or later FAA approved revisions to (1) or (2)

*Limitations and Conditions* (Continued):

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.

For the DA 40 the Hartzell propeller HC-C2YR-1BF/F7495S has been shown to be compatible with the G1000 Integrated Avionics System. Other propeller installations that have the same engine limitations as required by the Hartzell propeller HC-C2YR-1BF/F7495S could be shown to be compatible with the G1000 system. Compatibility for other propeller installations must be determined by the installer. The MT Propeller Co. MTV-12-B/180-17( ) installation in the DA40 is not compatible with the G1000 system.

Previous design changes that are necessary to enable the newly altered product to be airworthy or to complete the installation are:

**DA 40**

Diamond OAM modification in accordance with Garmin Installation drawing 005-00149-01, Revision 8 dated June 17, 2004, or later FAA approved revision (for the standard range fuel tank).

Diamond OAM modifications in accordance with Garmin Installation drawing 005-00304-00, Revision 3 dated March 14, 2005, or later FAA approved revision (for the long range fuel tank).

**DA 40F**

Diamond OAM modifications in accordance with Garmin Installation drawing 005-00304-00, Revision 4 dated June 01, 2005, or later FAA approved revision (for the long range fuel tank).

United States of America  
 Department of Transportation -- Federal Aviation Administration  
**Supplemental Type Certificate**  
 (Continuation Sheet)

*Number* SA01254WI-D

Date of Issuance: June 25, 2004  
 Date Amended: July 16, 2009

**Certification Basis:** With respect to the modifications of this STC, the applicant has complied with the existing Certification Basis of the DA40, which is equivalent to 14 CFR Part 23 effective February 1, 1965, including Amendments 23-1 through Amendments 23-51, and as amended by the Amendments stated as follows:

14 CFR Part	Amendment	14 CFR Part	Amendment
23.301(a)(b)(c)	23-48	23.1301	23-20
23.303	-	23.1303(a)(b)(c)(f)	23-49
23.305	23-45	23.1305	23-52
23.307(a)	-	23.1307	23-49
23.561(a)(b)(3)	23-48	23.1309	23-49
23.562(c)(5)	23-50	23.1311	23-49
23.1525	23-45	23.1321(a)(c)(d)(e)	23-49
23.601	-	23.1322	23-43
23.603	23-23	23.1323	23-49
23.605(a)	23-23	23.1325	23-50
23.607(a)(b)	23-48	23.1326	23-49
23.609(a)	-	23.1327	23-20
23.611	23-48	23.1329(h)	23-49
23.613(a)(b)(2)(d)	23-45	23.1331	23-43
23.619	23-7	23.1337	23-51
23.625(a)(b)(c)	23-7	23.1351	23-51
23.771(a)	23-14	23.1353	23-49
23.773(a)(2)	23-45	23.1357(a-d)	23-43
23.777(a)(b)	23-51	23.1359(c)	23-49
23.853(a)	23-49	23.1183	23-51
23.867	23-49	23.1365(a)(b)(d)(e)	23-49
23.901(b)(2)(e)(1)	23-51	23.1381(a)(b)	-
23.954	23-51	23.1431(a)(b)(e)	23-49
23.963(e)	23-51	23.1547	23-20
23.993(a)(d)	23-43	23.1549	23-45
23.1529	23-26	23.1553,55	23-50
23.1541(a)(b)	23-21	23.1557	23-43
23.1543,45	23-50	23.1559-67	23-50

An Equivalent Level Of Safety (ELOS) has been found for 14 CFR 23.1337(b); Reference ACE-03-01

-----END-----