

## SERVICE INFORMATION NO. SI-40-139

**NOTE:** SI's are used only:

- 1) To distribute information from DAI to our customers.
  - 2) To distribute applicable information/documents from our suppliers to our customers with additional information.
- Typically there is no revision service for SI's. Each new information or change of that will be sent along with a new SI.

### I. TECHNICAL DETAILS

#### 1.1 Airplanes affected:

All DA 40 WAAS equipped aircraft with GARMIN G1000 system software version prior to 0321.23 (including the 0369.XX system software version), see also section 2.1.

All DA 40 F WAAS equipped aircraft with GARMIN G1000 system software version prior to 0321.23 (including the 0369.XX system software version), see also section 2.1.

#### 1.2 Subject:

GARMIN STC Service Bulletin No. 1334 Revision A  
ATA-Code: 34-00

#### 1.3 Reason:

GARMIN has issued STC Service Bulletin regarding the update of G1000 equipped aircraft to G1000 System Software Version 0321.23

#### 1.4 Information:

For detailed technical information refer to the GARMIN STC Service Bulletin No. 1334 Revision A.

## **II. OTHERS**

### **2.1 STC Information:**

The affected GARMIN G1000 system and its associated systems, components and software are installed in the DA 40 and DA 40 F airplanes under one of the following known GARMIN STC:

- FAA STC No:  
- SA01444W-D (G1000 System and GFC 700 A/P System with optional WAAS installation)

Additionally to the above mentioned STC further GARMIN STC's may be approved.

The applicability of the attached GARMIN publication must be checked. For this purpose refer to the related airplane documentation, contact your responsible GARMIN Service Centre or your local authority.

### **2.2 Miscellaneous:**

The GARMIN Service Bulletin No. 1334 Revision A is attached to this SI.

In case of doubt contact GARMIN.



## STC SERVICE BULLETIN

NO.: 1334 Revision A

**TO:** Diamond Aircraft Industries, Inc  
**DATE:** 01 October, 2013  
**SUBJECT:** G1000 System Software Update for Diamond DA40/DA40F Aircraft

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### **PRODUCT AFFECTED**

All G1000 WAAS-equipped Diamond DA40/DA40 F aircraft with system software version prior to 0321.23 (including the 0369.XX system software versions).

### **DESCRIPTION**

This Service Bulletin provides information required to update G1000-equipped Diamond DA40/DA40F aircraft to G1000 System Software Version 0321.23.

### **PURPOSE**

This software update provides the following for all G1000 equipped Diamond DA 40/DA40F aircraft:

- MFD Vertical Profile View
- NAV Database synch capability
- Standby NAV database capability
- XM Weather Display Enhancements
- Added WAAS approach capability for airports with 3-letter identifiers
- AOPA Airport Directory Support
- Added Range-To-Altitude Arc on MFD Navigation Map
- Compatibility with Enhanced Search & Rescue Option
- Re-establishes use of checklist capability

The following Garmin service documents are addressed by the installation of this software update:

- Service Bulletin 1322 (GDL 69/69A improvements)
- Service Advisory 1129 (Momentary Loss of GRS 77 and GDC 74A Functions)
- Service Advisory 1101 (GDL 69/69A TFR Reporting Issue)
- Service Advisory 1041 (GDL 69/69A NEXRAD Weather Reporting Issue)
- Service Advisory 0914 (Loss of Heading/Attitude Information Following Stall Maneuvers)

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## **APPROVAL**

G1000 System Software Version 0321.23 is FAA-approved for installation in accordance with STC SA01444WI-D. There are three available STC Configurations documented in the Master Drawing List, 005-00400-01 Rev. 10 or later FAA approved revision. They are summarized as follows:

- -1 Configuration: G1000 with GFC 700 AFCS, WAAS
- -3 Configuration: G1000, No Autopilot, WAAS
- -5 Configuration: G1000 with KAP 140 Autopilot, WAAS

## **AFMS AND PILOT'S GUIDE CONSIDERATIONS**

As a result of changes related to the system software version update, the documents listed in the following table are required to be issued to the aircraft operator/owner before the aircraft is returned to service.

<b>Document Title</b>	<b>Part Number</b>	<b>Revision</b>
Airplane Flight Manual Supplement: G1000 Integrated Avionics System In a Diamond Model DA40 & DA40 F (GFC 700)	190-00492-10	Revision 8 or later FAA-approved revision
Or		
Airplane Flight Manual Supplement: G1000 Integrated Avionics System – Diamond Model DA40 & DA40F (No Autopilot)	190-00492-11	Revision 8 or later FAA-approved revision
Or		
Airplane Flight Manual Supplement G1000 Integrated Avionics System (KAP 140 Autopilot)	190-00492-12	Revision 6 or later FAA-approved revision
G1000 Cockpit Reference Guide for Diamond DA40/40F	190-00324-11	Revision C or later

## **COMPLIANCE**

This service bulletin is optional.

## **REFERENCES**

The required STC documents are available from:

- [www.garmin.com](http://www.garmin.com), within the Dealer Resource section of the web site

The following document is required to accomplish the update:

<b>Document Title</b>	<b>Part Number</b>	<b>Revision</b>
G1000 / GFC 700 Field Update Instructions, Diamond DA40 & DA40F	190-00544-03	Revision 10 or later FAA-approved revision

## **Maintenance Documentation**

The following document is required to maintain the airworthiness of G1000-equipped DA 40/DA40F aircraft with System Software 0321.23:

<b>Document Title</b>	<b>Part Number</b>	<b>Revision</b>
G1000 System Maintenance Manual – Diamond DA40 & DA 40 F (Contains Instructions for Continued Airworthiness)	190-00545-01	Revision G or later revision

## **WARRANTY INFORMATION**

This modification is not warranty reimbursable.

## **MODIFICATION INSTRUCTIONS**

Perform the field update instructions according to the G1000 Field Update Instructions, Diamond DA40 & DA 40 F document, Garmin P/N 190-00544-03 Revision 10 or later FAA approved revision.

## **TESTING PROCEDURE**

Perform the return to service and testing procedure according to the G1000 Field Update Instructions, Diamond DA40 & DA40 F document, Garmin P/N 190-00544-03 Revision 10 or later FAA approved revision.

## **MATERIAL INFORMATION**

### G1000/DA40/DA40F Software Loader Image

To accomplish this update, the technician must have the new G1000/DA40 Software Loader Image, Garmin P/N 006-B0321-23. The software loader image is available to download from the Dealer portion of the Garmin website ([www.garmin.com](http://www.garmin.com)). To access the software loader image, click on the “G1000 Field-Loadable Software Updates” link and select the appropriate airframe.

QTY	Part Number	Description
1	006-B0321-23	G1000 Software Loader Image (G1000 Diamond DA40/DA 40F System Software Version 0321.23)
2	010-00330-43*	SD Supplemental Data Cards (optional)
1	190-00324-11	G1000 Cockpit Reference Guide for Diamond DA40/40F
1	190-00592-07 Revision D	G1000 Pilot's Guide for the Diamond DA40/40F

\*Cards are required to obtain Synthetic Vision/Pathways, SafeTaxi, FliteChart, and G1000 chart display capabilities. Previous cards can be used if these features are not desired.

#### **NOTE**

Additional materials and equipment may be required. Refer to the Required Materials & Equipment Section in the G1000 Field Update Instructions, Diamond DA40 & DA40 F document (Garmin P/N 190-00544-03 Revision 10 or later FAA approved revision) for a complete list.