

# MANDATORY SERVICE BULLETIN

## NO. MSB 42-008/17

### SUPERSEDES MSB 42-008/16

## I TECHNICAL DETAILS

### I.1 Category

Mandatory.

### I.2 Airplanes affected

Type: DA 42, DA 42 M

Serial Numbers: 42.004 and subsequent equipped with TAE125-01, TAE125-02-99, or TAE125-02-114 engines  
42.AC001 and subsequent equipped with TAE125-01, TAE125-02-99, or TAE125-02-114 engines  
42.M001 and subsequent equipped with TAE125-02-99 or TAE125-02-114 engines

### I.3 Time of Compliance

At next maintenance action.

**NOTE:** Prior compliance with MSB 42-008 through MSB 42-008/16 does not preclude compliance with this MSB.

### I.4 Subject

Software for Garmin G1000; approved software systems, manifests and configurations.

### I.5 Reason

Summary of approved software systems, manifests and configurations for Garmin G1000.

### I.6 Concurrent Documents

Garmin G1000 Line Maintenance and Configuration Manual, P/N 190-00303-04, latest effective issue.  
Garmin G1000 System Maintenance Manual (Standard Piston / Turboprop Aircraft), P/N 190-00907-00, latest effective issue

## I.7 Approval

The technical information or instructions contained in this document relate to the Design Change Advisories No. MÄM 42-062, MÄM 42-080/a, MÄM 42-101, MÄM 42-115/a, MÄM 42-142, MÄM 42-197, MÄM 42-233/a, MÄM 42-261, MÄM 42-264, MÄM 42-272, MÄM 42-347, MÄM 42-429, MÄM 42-497, MÄM 42-972, MÄM 42-1222, OÄM 42-102, OÄM 42-119/b, OÄM 42-125, OÄM 42-134, OÄM 42-146/a and VÄM 42-002, which have been approved under the authority of EASA Design Organization Approval No. EASA.21J.052 or by EASA.

The technical content of this document has been approved under the authority of DOA No. EASA.21J.052.

## I.8 Accomplishment/Instructions

### I.8.1 **Applicable to TAE125-01 engines**

Compare installed software system and related manifests with approved ones stated in this service bulletin.

If installed software system and related manifests are not approved, perform an update to the latest approved software version according to the instructions given in the G1000 Line Maintenance and Configuration Manual, latest effective issue, or other related Garmin documents.

An update to a later approved software system with the related manifest may be carried out on every aircraft. Perform the update according to the instructions given in the G1000 Line Maintenance and Configuration Manual, latest effective issue, or other related Garmin documents.

**NOTE:** Changing the software system requires new configuration of the system. Refer to the Garmin documentation for software configuration.

Software Part Number	Approved Version	Function	Remarks
<b>System</b>			Not approved if <ul style="list-style-type: none"> <li>• TAS 6X0</li> <li>• GDL 69</li> <li>• GFC 700</li> <li>• WAAS Hardware</li> <li>• GDC 74A with P/N 011-00882-10</li> <li>• SVT</li> <li>• GWX 68</li> </ul> is installed  AFM Doc. No. 7.01.05-E Rev. 3 or higher must be used.
010-00370-13	V1.00		
<b>Manifest</b>			
006-B0093-XX	V3.03	GPS1, GPS2	
006-B0172-XX	V4.03	GTX1-GIA1, GTX1-GIA2	
006-B0190-22	V3.02	GIA1, GIA2	
006-B0193-04	V2.06	GEA1-GIA1, GEA1-GIA2	
006-B0203-08	V2.09	GMA1-GIA1, GMA1-GIA2	
006-B0223-05	V2.06	GRS1-GIA1, GRS1-GIA2	
006-B0224-00	V2.01	GMU1	
006-B0319-32	V5.02	PFD1, MFD1	
006-B0328-05	V4.03		
006-B0329-01	V3.03		
006-C0048-00	V2.00	GMU1 FPGA	
006-C0049-00	V02.00	GRS1 FPGA	
006-C0055-00	V01.05	GDC1 FPGA	
-	-	GRS1 MV DB (see below)	

Software Part Number	Approved Version	Function	Remarks
006-B0261-03	V2.05	GDC1-GIA1	
<b>System</b>			
010-00370-14	V1.00		Not approved if <ul style="list-style-type: none"> <li>• GDL 69</li> <li>• GFC 700</li> <li>• WAAS Hardware</li> <li>• GDC 74A with P/N 011-00882-10</li> <li>• SVT</li> <li>• GWX 68</li> </ul> is installed  AFM Doc. No. 7.01.05-E Rev. 3 or higher must be used.
<b>Manifest</b>			
006-B0093-XX	V3.03	GPS1, GPS2	
006-B0172-XX	V4.03	GTX1-GIA1, GTX1-GIA2	
006-B0190-22	V3.02	GIA1, GIA2	
006-B0193-04	V2.06	GEA1-GIA1, GEA1-GIA2	
006-B0203-08	V2.09	GMA1-GIA1, GMA1-GIA2	
006-B0223-05	V2.06	GRS1-GIA1, GRS1-GIA2	
006-B0224-00	V2.01	GMU1	
006-B0319-32	V5.02	PFD1, MFD1	
006-B0328-05	V4.03		
006-B0329-01	V3.03		
006-C0048-00	V2.00	GMU1 FPGA	
006-C0049-00	V02.00	GRS1 FPGA	
006-C0055-00	V01.05	GDC1 FPGA	
-	-	GRS1 MV DB (see below)	
006-B0261-03	V2.05	GDC1-GIA1	
<b>System</b>			
010-00370-17	V1.00		Not approved if <ul style="list-style-type: none"> <li>• GFC 700</li> <li>• WAAS Hardware</li> <li>• GDC 74A with P/N 011-00882-10</li> <li>• SVT</li> <li>• GWX 68</li> </ul> is installed  AFM Doc. No. 7.01.05-E Rev. 3 or higher must be used.
<b>Manifest</b>			
006-B0093-XX	V3.03	GPS1, GPS2	
006-B0172-XX	V4.03	GTX1-GIA1, GTX1-GIA2	
006-B0190-22	V3.02	GIA1, GIA2	
006-B0193-04	V2.06	GEA1-GIA1, GEA1-GIA2	
006-B0203-10	V2.11	GMA1-GIA1, GMA1-GIA2	
006-B0223-07	V2.09	GRS1-GIA1, GRS1-GIA2	
006-B0224-00	V2.01	GMU1	
006-B0319-32	V5.02	PFD1, MFD1	
006-B0328-05	V4.03		
006-B0329-01	V3.03		
006-C0048-00	V2.00	GMU1 FPGA	
006-C0049-00	V02.00	GRS1 FPGA	
006-C0055-00	V01.05	GDC1 FPGA	
-	-	GRS1 MV DB (see below)	
006-B0261-03	V2.05	GDC1-GIA1	
006-B0317-12	V3.02.00	GDL 69	Configuration DA42 1.7 Liter Engine Option must be carried out.

Software Part Number	Approved Version	Function	Remarks
<b>System</b>			Not approved if <ul style="list-style-type: none"> <li>• WAAS Hardware</li> <li>• SVT</li> <li>• GWX 68</li> </ul> is installed  AFM Doc. No. 7.01.05-E Rev. 3 or higher must be used.  Configuration DA42 1.7 Liter Engine Option must be carried out.
010-00370-19	V1.00		
<b>Manifest</b>			
006-B0093-XX	V3.03	GPS1, GPS2	
006-B0172-XX	V4.05	GTX1-GIA1, GTX1-GIA2	
006-B0190-38	V4.71	GIA1, GIA2	
006-B0193-05	V2.07	GEA1-GIA1, GEA1-GIA2	
006-B0203-10	V2.11	GMA1-GIA1, GMA1-GIA2	
006-B0223-07	V2.09	GRS1-GIA1, GRS1-GIA2	
006-B0224-00	V2.01	GMU1	
006-B0319-45	V6.13	PFD1, MFD1	
006-B0328-07	V4.05		
006-B0329-01	V3.03		
006-C0048-00	V2.00	GMU1 FPGA	
006-C0049-00	V02.00	GRS1 FPGA	
006-C0055-00	V01.05	GDC1 FPGA	
-	-	GRS1 MV DB (see below)	
006-B0261-11	V3.01	GDC1-GIA1	
006-B0317-13	V3.10	GDL 69	
006-D0425-02	V2.02	GIA1 Audio DB, GIA2 Audio DB	
<b>System</b>			Not approved if <ul style="list-style-type: none"> <li>• SVT</li> <li>• GWX 68</li> </ul> is installed  AFM Doc. No. 7.01.05-E Rev. 6 or higher must be used.  Configuration DA42 1.7 Liter Engine Option must be carried out.
010-00370-20	V1.00		
<b>Manifest</b>			
006-B0093-XX	V3.03	GPS1, GPS2	
006-B0172-01	V4.06	GTX1-GIA1, GTX1-GIA2	
006-B0190-46	V5.51	GIA1, GIA2	
006-B0193-05	V2.07	GEA1-GIA1, GEA1-GIA2	
006-B0203-33	V3.03	GMA1-GIA1, GMA1-GIA2	
006-B0223-09	V2.11	GRS1-GIA1, GRS1-GIA2	
006-B0224-00	V2.01	GMU1	
006-B0319-6A	V8.20	PFD1, MFD1	
006-B0328-08	V4.06		
006-B0329-01	V3.03		
006-C0048-00	V2.00	GMU1 FPGA	
006-C0049-00	V02.00	GRS1 FPGA	
006-C0055-00	V01.05	GDC1 FPGA	
-	-	GRS1 MV DB (see below)	
006-B0261-12	V3.02	GDC1-GIA1	
006-B0317-14	V3.20.00	GDL 69	
006-D0425-03	V2.03	GIA1 Audio DB, GIA2 Audio DB	
006-B0398-20	V2.13	GSA 8X	
006-D0744-02	V2.00	GFC700 Cert Gains	
006-B0339-07	V3.0	GPS/WAAS Engine	
006-B0544-28	V5.51	G1000 GIA 6XW SYS	

Software Part Number	Approved Version	Function	Remarks
006-C0036-04	V1.04	GDU 1XXX FPGA	
006-B0191-04	V2.03	GDU 10XX BB	
006-B0561-00	V2.0	GPS/WAAS Download Tool	
<b>System</b>			Not approved if <ul style="list-style-type: none"> <li>• SVT</li> <li>• GWX 68</li> </ul> is installed  AFM Doc. No. 7.01.05-E Rev. 6 or higher must be used.  Configuration DA42 1.7 Liter Engine Option must be carried out.
010-00370-21	V1.00		
<b>Manifest</b>			
006-B0093-XX	V3.03	GPS1, GPS2	
006-B0172-01	V4.06	GTX1-GIA1, GTX1-GIA2	
006-B0190-46	V5.51	GIA1, GIA2	
006-B0193-05	V2.07	GEA1-GIA1, GEA1-GIA2	
006-B0203-33	V3.03	GMA1-GIA1, GMA1-GIA2	
006-B0223-09	V2.11	GRS1-GIA1, GRS1-GIA2	
006-B0224-00	V2.01	GMU1	
006-B0319-6A	V8.20	PFD1, MFD1	
006-B0328-08	V4.06		
006-B0329-01	V3.03		
006-C0048-00	V2.00	GMU1 FPGA	
006-C0049-00	V02.00	GRS1 FPGA	
006-C0055-00	V01.05	GDC1 FPGA	
-	-	GRS1 MV DB (see below)	
006-B0261-12	V3.02	GDC1-GIA1	
006-B0317-14	V3.20.00	GDL 69	
006-D0425-03	V2.03	GIA1 Audio DB, GIA2 Audio DB	
006-B0398-20	V2.13	GSA 8X	
006-D0744-02	V2.00	GFC700 Cert Gains	
006-B0339-07	V3.0	GPS/WAAS Engine	
006-B0544-28	V5.51	G1000 GIA 6XW SYS	
006-C0036-04	V1.04	GDU 1XXX FPGA	
006-B0191-04	V2.03	GDU 10XX BB	
<b>System</b>			
010-00370-22	V1.00		
<b>Manifest</b>			
006-B0093-XX	V3.03	GPS1, GPS2	
006-B0172-01	V5.01	GTX1-GIA1, GTX1-GIA2	
006-B0190-48	V5.65	GIA1, GIA2	
006-B0193-05	V2.07	GEA1-GIA1, GEA1-GIA2	
006-B0203-41	V4.01	GMA1-GIA1, GMA1-GIA2	
006-B0223-09	V2.11	GRS1-GIA1, GRS1-GIA2	
006-B0224-00	V2.01	GMU1	
006-B0319-75	V9.05	PFD1, MFD1	
006-B0328-10	V5.01		
006-B0329-01	V3.03		

Software Part Number	Approved Version	Function	Remarks
006-C0048-00	V2.00	GMU1 FPGA	be incorporated into the AFM Doc. No. 7.01.05-E or AFM Revision 7 or higher must be used.
006-C0049-00	V02.00	GRS1 FPGA	
006-C0055-00	V01.05	GDC1 FPGA	
-	-	GRS1 MV DB (see below)	
006-B0261-12	V3.02	GDC1-GIA1	
006-B0317-14	V3.20.00	GDL 69	
006-D0425-05	V2.05	GIA1 Audio DB, GIA2 Audio DB	
006-B0398-30	V2.20	GSA 8X	
006-D0744-02	V2.00	GFC700 Cert Gains	
006-B0339-09	V3.1	GPS/WAAS Engine	
006-B0544-2B	V5.65	G1000 GIA 6XW SYS	
006-C0036-04	V1.04	GDU 1XXX FPGA	
006-B0191-04	V2.03	GDU 10XX BB	
006-B0266-10	V2.11	GWX1	
006-C0042-06	V3.01	GWX1 FPGA	

Software Part Number	Approved Version	Function	Remarks
<b>System</b>			<ul style="list-style-type: none"> <li>AFM Doc. No. 7.01.05-E Rev. 8 or higher must be used.</li> </ul>
010-00370-23	V1.00		
<b>Manifest</b>			<ul style="list-style-type: none"> <li>If OÄM 42-102 (GFC 700 A/P) is carried out, AFM Doc. No. 7.01.06-E Rev. 3 or higher must be used.</li> <li>WAAS equipment (GIA63Ws) is required with this system software version. This software supports GIA63W with P/N 011-01105-20</li> <li>4.9 arc-second databases (Garmin P/N 010-00330-45) are required with this system software version.</li> <li>Configuration DA42</li> </ul>
006-B0081-42	V11.30	COM System	
006-B0082-12	V6.02	NAV System	
006-B0172-XX	V8.02	GTX33X System	
006-B0193-05	V2.07	GEA System	
006-B0203-44	V4.04	GMAX347 System	
006-B0223-24	V3.04	GRS77 System	
006-B0224-01	V2.05	GMU44 System	
006-B0261-19	V3.09	GDC74 System	
006-B0266-12	V2.20	GWX68 System	
006-B0317-14	V3.20.00	GDL69 System	
006-B0317-22	V4.02.00	GDL69 System	
006-B0319-D6	V15.11	GDUXXXX System	
006-B0339-21	V5.1	WAAS System	
006-B0398-32	V2.30	GSA8X System	
006-B0544-4S	V7.80	GIA6XW System	
006-C0036-04	V1.04	GDU FPGA	
006-C0042-06	V3.01	GWX68 FPGA	
006-C0048-00	V2.00	GMU44 FPGA	
006-C0049-00	V02.00	GRS77 FPGA	
006-C0055-00	V01.05	GDC74 FPGA	
006-C0124-00	V1.0	NAV FPGA	
006-D0744-02	V2.00	GFC700 Cert Gains	
006-D4432-00	V2.00	GIA Audio / Audio Data	
-	-	GRS1 MV DB (see below)	

Software Part Number	Approved Version	Function	Remarks
			Option - 1.7 Liter Engine must be carried out.

Approved Configurations (Software)	Remark
NOTE: Even though more options may be included in the software loader card, only those shown below are currently approved for installation.	
DA42 DME Option	Only in conjunction with System 010-00370-19
DA42 ADF Option	Only in conjunction with System 010-00370-19
DA42 Stormscope Option	Only in conjunction with System 010-00370-19
DA42/DA40D DME Option	Only in conjunction with System 010-00370-13 through 010-00370-17
DA42/DA40D ADF Option	Only in conjunction with System 010-00370-13 through 010-00370-17
DA42/DA40D Stormscope Option	Only in conjunction with System 010-00370-13 through 010-00370-17
DA42 Aux Fuel Tanks Option	Only in conjunction with System 010-00370-13 or higher
DA42 Deicing Option	Only in conjunction with System 010-00370-13 or higher
DA42/DA40D TAS600 Series Installation Option	Only in conjunction with System 010-00370-14 and 010-00370-17
DA42 1.7 Liter Engine Option	Only in conjunction with System 010-00370-17 or higher
DA42/DA40D GDL Option	Only in conjunction with System 010-00370-17
DA42 TAS600 Series Installation Option	Only in conjunction with System 010-00370-19
DA42 GDL Option	Only in conjunction with System 010-00370-19
DA42 Option – 1.7 Liter Engine	Only in conjunction with System 010-00370-20 or higher
DA42 Option – Stormscope	Only in conjunction with System 010-00370-20 or higher
DA42 Option – TAS600 Series Installation	Only in conjunction with System 010-00370-20 or higher
DA42 Option – GFC700	Only in conjunction with System 010-00370-20 or higher
DA42 Option – GDL69	Only in conjunction with System 010-00370-20 or higher

Approved Configurations (Software)	Remark
DA42 Option – DME	Only in conjunction with System 010-00370-20 or higher
DA42 Option – Deicing	Only in conjunction with System 010-00370-20 or higher
DA42 Option – Aux Fuel Tanks	Only in conjunction with System 010-00370-20 or higher
DA42 Option – ADF	Only in conjunction with System 010-00370-20 or higher
DA42 Option – Weather Radar	Only in conjunction with System 010-00370-22
DA42 Option – GWX68	Only in conjunction with System 010-00370-23 or higher

Approved Magnetic Field Charts (GRS1 MV DB)		
Software Part Number	Approved Version	Remarks
006-D0159-01	V2005.00	valid until 31-Dec-2011
006-D0159-02	V2010.00	valid until 31-Dec-2016
006-D0159-03	V2015.00	valid until 31-Dec-2021
006-D0159-04	V2020.00	



### I.8.2 Applicable to TAE125-02-99 engines

Compare installed software system and related manifests with approved ones stated in this service bulletin.

If installed software system and related manifests are not approved, perform an update to the latest approved software version according to the instructions given in the G1000 Line Maintenance and Configuration Manual, latest effective issue, or other related Garmin documents.

An update to a later approved software system with the related manifest may be carried out on every aircraft. Perform the update according to the instructions given in the G1000 Line Maintenance and Configuration Manual, latest effective issue, or other related Garmin documents.

**NOTE:** Changing the software system requires new configuration of the system. Refer to the Garmin documentation for software configuration.

Software Part Number	Approved Version	Function	Remarks
<b>System</b>			Not approved if <ul style="list-style-type: none"> <li>• GDL 69</li> <li>• GFC 700</li> <li>• WAAS Hardware</li> <li>• GDC 74A with P/N 011-00882-10</li> <li>• SVT</li> <li>• GWX 68</li> </ul> is installed  AFM Doc. No. 7.01.05-E Rev. 4 or higher must be used.
010-00370-15	V1.00		
<b>Manifest</b>			
006-B0093-XX	V3.03	GPS1, GPS2	
006-B0172-XX	V4.03	GTX1-GIA1, GTX1-GIA2	
006-B0190-22	V3.02	GIA1, GIA2	
006-B0193-04	V2.06	GEA1-GIA1, GEA1-GIA2	
006-B0203-08	V2.09	GMA1-GIA1, GMA1-GIA2	
006-B0223-07	V2.09	GRS1-GIA1, GRS1-GIA2	
006-B0224-00	V2.01	GMU1	
006-B0319-32	V5.02	PFD1, MFD1	
006-B0328-05	V4.03		
006-B0329-01	V3.03		
006-C0048-00	V2.00	GMU1 FPGA	
006-C0049-00	V02.00	GRS1 FPGA	
006-C0055-00	V01.05	GDC1 FPGA	
-	-	GRS1 MV DB (see below)	
006-B0261-03	V2.05	GDC1-GIA1	
-	-	-	
<b>System</b>			
010-00370-16	V1.00		
<b>Manifest</b>			
006-B0093-XX	V3.03	GPS1, GPS2	
006-B0172-XX	V4.03	GTX1-GIA1, GTX1-GIA2	
006-B0190-22	V3.02	GIA1, GIA2	
006-B0193-04	V2.06	GEA1-GIA1, GEA1-GIA2	

Software Part Number	Approved Version	Function	Remarks
006-B0203-10	V2.11	GMA1-GIA1, GMA1-GIA2	<ul style="list-style-type: none"> <li>SVT</li> <li>GWX 68</li> </ul> is installed  AFM Doc. No. 7.01.05-E Rev. 4 or higher must be used.
006-B0223-07	V2.09	GRS1-GIA1, GRS1-GIA2	
006-B0224-00	V2.01	GMU1	
006-B0319-32	V5.02	PFD1, MFD1	
006-B0328-05	V4.03		
006-B0329-01	V3.03		
006-C0048-00	V2.00	GMU1 FPGA	
006-C0049-00	V02.00	GRS1 FPGA	
006-C0055-00	V01.05	GDC1 FPGA	
-	-	GRS1 MV DB (see below)	
006-B0261-03	V2.05	GDC1-GIA1	
006-B0317-12	V3.02.00	GDL 69	
<b>System</b>			Not approved if <ul style="list-style-type: none"> <li>GFC 700</li> <li>WAAS Hardware</li> <li>GDC 74A with P/N 011-00882-10</li> <li>SVT</li> <li>GWX 68</li> </ul> is installed  AFM Doc. No. 7.01.05-E Rev. 4 or higher must be used.
010-00370-17	V1.00		
<b>Manifest</b>			
006-B0093-XX	V3.03	GPS1, GPS2	
006-B0172-XX	V4.03	GTX1-GIA1, GTX1-GIA2	
006-B0190-22	V3.02	GIA1, GIA2	
006-B0193-04	V2.06	GEA1-GIA1, GEA1-GIA2	
006-B0203-10	V2.11	GMA1-GIA1, GMA1-GIA2	
006-B0223-07	V2.09	GRS1-GIA1, GRS1-GIA2	
006-B0224-00	V2.01	GMU1	
006-B0319-32	V5.02	PFD1, MFD1	
006-B0328-05	V4.03		
006-B0329-01	V3.03		
006-C0048-00	V2.00	GMU1 FPGA	
006-C0049-00	V02.00	GRS1 FPGA	
006-C0055-00	V01.05	GDC1 FPGA	
-	-	GRS1 MV DB (see below)	
006-B0261-03	V2.05	GDC1-GIA1	
006-B0317-12	V3.02.00	GDL 69	
<b>System</b>			Not approved if <ul style="list-style-type: none"> <li>WAAS Hardware</li> <li>SVT</li> <li>GWX 68</li> </ul> is installed  AFM Doc. No. 7.01.05-E Rev. 4 or higher must be used.
010-00370-19	V1.00		
<b>Manifest</b>			
006-B0093-XX	V3.03	GPS1, GPS2	
006-B0172-XX	V4.05	GTX1-GIA1, GTX1-GIA2	
006-B0190-38	V4.71	GIA1, GIA2	
006-B0193-05	V2.07	GEA1-GIA1, GEA1-GIA2	
006-B0203-10	V2.11	GMA1-GIA1, GMA1-GIA2	
006-B0223-07	V2.09	GRS1-GIA1, GRS1-GIA2	
006-B0224-00	V2.01	GMU1	
006-B0319-45	V6.13	PFD1, MFD1	
006-B0328-07	V4.05		If OÄM 42-102 (GFC

Software Part Number	Approved Version	Function	Remarks
006-B0329-01	V3.03		700 A/P) is carried out, AFM Doc. No. 7.01.06-E must be used.
006-C0048-00	V2.00	GMU1 FPGA	
006-C0049-00	V02.00	GRS1 FPGA	
006-C0055-00	V01.05	GDC1 FPGA	
-	-	GRS1 MV DB (see below)	
006-B0261-11	V3.01	GDC1-GIA1	
006-B0317-13	V3.10	GDL 69	
006-D0425-02	V2.02	GIA1 Audio DB, GIA2 Audio DB	
006-B0398-17	V2.10	GSA 8X	
006-D0744-00	V2.00	GFC700 Cert Gains	
<b>System</b>			
010-00370-20	V1.00		Not approved if <ul style="list-style-type: none"> <li>• SVT</li> <li>• GWX 68</li> </ul> is installed
<b>Manifest</b>			
006-B0093-XX	V3.03	GPS1, GPS2	AFM Doc. No. 7.01.05-E Rev. 6 or higher must be used.  If OÄM 42-102 (GFC 700 A/P) is carried out, AFM Doc. No. 7.01.06-E Rev. 1 or higher must be used.
006-B0172-01	V4.06	GTX1-GIA1, GTX1-GIA2	
006-B0190-46	V5.51	GIA1, GIA2	
006-B0193-05	V2.07	GEA1-GIA1, GEA1-GIA2	
006-B0203-33	V3.03	GMA1-GIA1, GMA1-GIA2	
006-B0223-09	V2.11	GRS1-GIA1, GRS1-GIA2	
006-B0224-00	V2.01	GMU1	
006-B0319-6A	V8.20	PFD1, MFD1	
006-B0328-08	V4.06		
006-B0329-01	V3.03		
006-C0048-00	V2.00	GMU1 FPGA	
006-C0049-00	V02.00	GRS1 FPGA	
006-C0055-00	V01.05	GDC1 FPGA	
-	-	GRS1 MV DB (see below)	
006-B0261-12	V3.02	GDC1-GIA1	
006-B0317-14	V3.20.00	GDL 69	
006-D0425-03	V2.03	GIA1 Audio DB, GIA2 Audio DB	
006-B0398-20	V2.13	GSA 8X	
006-D0744-02	V2.00	GFC700 Cert Gains	
006-B0339-07	V3.0	GPS/WAAS Engine	
006-B0544-28	V5.51	G1000 GIA 6XW SYS	
006-C0036-04	V1.04	GDU 1XXX FPGA	
006-B0191-04	V2.03	GDU 10XX BB	
006-B0561-00	V2.0	GPS/WAAS Download Tool	
<b>System</b>			
010-00370-21	V1.00		Not approved if <ul style="list-style-type: none"> <li>• SVT</li> <li>• GWX 68</li> </ul> is installed
<b>Manifest</b>			
006-B0093-XX	V3.03	GPS1, GPS2	
006-B0172-01	V4.06	GTX1-GIA1, GTX1-GIA2	

Software Part Number	Approved Version	Function	Remarks
006-B0190-46	V5.51	GIA1, GIA2	AFM Doc. No. 7.01.05-E Rev. 6 or higher must be used.  If OÄM 42-102 (GFC 700 A/P) is carried out, AFM Doc. No. 7.01.06-E Rev. 1 or higher must be used.
006-B0193-05	V2.07	GEA1-GIA1, GEA1-GIA2	
006-B0203-33	V3.03	GMA1-GIA1, GMA1-GIA2	
006-B0223-09	V2.11	GRS1-GIA1, GRS1-GIA2	
006-B0224-00	V2.01	GMU1	
006-B0319-6A	V8.20	PFD1, MFD1	
006-B0328-08	V4.06		
006-B0329-01	V3.03		
006-C0048-00	V2.00	GMU1 FPGA	
006-C0049-00	V02.00	GRS1 FPGA	
006-C0055-00	V01.05	GDC1 FPGA	
-	-	GRS1 MV DB (see below)	
006-B0261-12	V3.02	GDC1-GIA1	
006-B0317-14	V3.20.00	GDL 69	
006-D0425-03	V2.03	GIA1 Audio DB, GIA2 Audio DB	
006-B0398-20	V2.13	GSA 8X	
006-D0744-02	V2.00	GFC700 Cert Gains	
006-B0339-07	V3.0	GPS/WAAS Engine	
006-B0544-28	V5.51	G1000 GIA 6XW SYS	
006-C0036-04	V1.04	GDU 1XXX FPGA	
006-B0191-04	V2.03	GDU 10XX BB	
006-B0561-00	V2.0	GPS/WAAS Download Tool	
<b>System</b>			
010-00370-22	V1.00		AFM Doc. No. 7.01.05-E Rev. 6 or higher must be used.  If OÄM 42-102 (GFC 700 A/P) is carried out, AFM Doc. No. 7.01.06-E Rev. 1 or higher must be used.
<b>Manifest</b>			
006-B0093-XX	V3.03	GPS1, GPS2	
006-B0172-01	V5.01	GTX1-GIA1, GTX1-GIA2	
006-B0190-48	V5.65	GIA1, GIA2	
006-B0193-05	V2.07	GEA1-GIA1, GEA1-GIA2	
006-B0203-41	V4.01	GMA1-GIA1, GMA1-GIA2	
006-B0223-09	V2.11	GRS1-GIA1, GRS1-GIA2	
006-B0224-00	V2.01	GMU1	
006-B0319-75	V9.05	PFD1, MFD1	
006-B0328-10	V5.01		
006-B0329-01	V3.03		
006-C0048-00	V2.00	GMU1 FPGA	
006-C0049-00	V02.00	GRS1 FPGA	
006-C0055-00	V01.05	GDC1 FPGA	
-	-	GRS1 MV DB (see below)	
006-B0261-12	V3.02	GDC1-GIA1	
006-B0317-14	V3.20.00	GDL 69	
006-D0425-05	V2.05	GIA1 Audio DB, GIA2 Audio DB	
006-B0398-30	V2.20	GSA 8X	
006-D0744-02	V2.00	GFC700 Cert Gains	
006-B0339-09	V3.1	GPS/WAAS Engine	

Software Part Number	Approved Version	Function	Remarks
006-B0544-2B	V5.65	G1000 GIA 6XW SYS	
006-C0036-04	V1.04	GDU 1XXX FPGA	
006-B0191-04	V2.03	GDU 10XX BB	
006-B0266-10	V2.11	GWX1	
006-C0042-06	V3.01	GWX1 FPGA	

Software Part Number	Approved Version	Function	Remarks
<b>System</b>			<ul style="list-style-type: none"> <li>• AFM Doc. No. 7.01.05-E Rev. 8 or higher must be used.</li> <li>• If OÄM 42-102 (GFC 700 A/P) is carried out, AFM Doc. No. 7.01.06-E Rev. 3 or higher must be used.</li> <li>• WAAS equipment (GIA63Ws) is required with this system software version. This software supports GIA63W with P/N 011-01105-20</li> <li>• 4.9 arc-second databases (Garmin P/N 010-00330-45) are required with this system software version.</li> </ul>
010-00370-23	V1.00		
<b>Manifest</b>			
006-B0081-42	V11.30	COM System	
006-B0082-12	V6.02	NAV System	
006-B0172-XX	V8.02	GTX33X System	
006-B0193-05	V2.07	GEA System	
006-B0203-44	V4.04	GMAX347 System	
006-B0223-24	V3.04	GRS77 System	
006-B0224-01	V2.05	GMU44 System	
006-B0261-19	V3.09	GDC74 System	
006-B0266-12	V2.20	GWX68 System	
006-B0317-14	V3.20.00	GDL69 System	
006-B0317-22	V4.02.00	GDL69 System	
006-B0319-D6	V15.11	GDUXXXX System	
006-B0339-21	V5.1	WAAS System	
006-B0398-32	V2.30	GSA8X System	
006-B0544-4S	V7.80	GIA6XW System	
006-C0036-04	V1.04	GDU FPGA	
006-C0042-06	V3.01	GWX68 FPGA	
006-C0048-00	V2.00	GMU44 FPGA	
006-C0049-00	V02.00	GRS77 FPGA	
006-C0055-00	V01.05	GDC74 FPGA	
006-C0124-00	V1.0	NAV FPGA	
006-D0744-02	V2.00	GFC700 Cert Gains	
006-D4432-00	V2.00	GIA Audio / Audio Data	
-	-	GRS1 MV DB (see below)	

Approved Configurations (Software)	Remark
NOTE: Even though more options may be included in the software loader card, only those shown below are currently approved for installation.	
DA42/DA40D DME Option	Only in conjunction with System 010-00370-15 through 010-00370-17
DA42/DA40D ADF Option	Only in conjunction with System 010-00370-15 through 010-00370-17
DA42/DA40D Stormscope Option	Only in conjunction with System 010-00370-15 through 010-00370-17
DA42 Aux Fuel Tanks Option	Only in conjunction with System 010-00370-15 or higher
DA42 Deicing Option	Only in conjunction with System 010-00370-15 or higher
DA42/DA40D TAS600 Series Installation Option	Only in conjunction with System 010-00370-15 through 010-00370-17
DA42/DA40D GDL Option	Only in conjunction with System 010-00370-16 or 010-00370-17
DA42 DME Option	Only in conjunction with System 010-00370-19
DA42 ADF Option	Only in conjunction with System 010-00370-19
DA42 Stormscope Option	Only in conjunction with System 010-00370-19
DA42 TAS600 Series Installation Option	Only in conjunction with System 010-00370-19
DA42 GDL Option	Only in conjunction with System 010-00370-19
DA 42 GFC700 Option	Only in conjunction with System 010-00370-19
DA42 Option – Stormscope	Only in conjunction with System 010-00370-20 or higher
DA42 Option – TAS600 Series Installation	Only in conjunction with System 010-00370-20 or higher
DA42 Option – GFC700	Only in conjunction with System 010-00370-20 or higher
DA42 Option – GDL69	Only in conjunction with System 010-00370-20 or higher
DA42 Option – DME	Only in conjunction with System 010-00370-20 or higher
DA42 Option – Deicing	Only in conjunction with System 010-00370-20 or higher
DA42 Option – Aux Fuel Tanks	Only in conjunction with System 010-00370-20 or higher
DA42 Option – ADF	Only in conjunction with System 010-00370-20 or higher
DA42 Option – Weather Radar	Only in conjunction with System 010-00370-22
DA42 Option – GWX68	Only in conjunction with System 010-00370-23 or higher

Approved Magnetic Field Charts (GRS1 MV DB)		
Software Part Number	Approved Version	Remarks
006-D0159-02	V2010.00	valid until 31-Dec-2016
006-D0159-03	V2015.00	valid until 31-Dec-2021
006-D0159-04	V2020.00	

### I.8.3 Applicable to TAE125-02-114 engines

Compare installed software system and related manifests with approved ones stated in this service bulletin.

If installed software system and related manifests are not approved, perform an update to the latest approved software version according to the instructions given in the G1000 Line Maintenance and Configuration Manual, latest effective issue, or other related Garmin documents.

An update to a later approved software system with the related manifest may be carried out on every aircraft. Perform the update according to the instructions given in the G1000 Line Maintenance and Configuration Manual, latest effective issue, or other related Garmin documents.

**NOTE:** Changing the software system requires new configuration of the system. Refer to the Garmin documentation for software configuration.

Software Part Number	Approved Version	Function	Remarks
<b>System</b>			<ul style="list-style-type: none"> <li>AFM Doc. No. 7.01.05-E Rev. 8 or higher must be used. Supplement S07 latest effective issue must be incorporated into the AFM.</li> <li>If OÄM 42-102 (GFC 700 A/P) is carried out, AFM Doc. No. 7.01.06-E Rev. 3 or higher must be used. Supplement S07 latest effective issue must be incorporated into the AFM.</li> </ul>
010-00370-22	V1.00		
<b>Manifest</b>			
006-B0093-XX	V3.03	GPS1, GPS2	
006-B0172-01	V5.01	GTX1-GIA1, GTX1-GIA2	
006-B0190-48	V5.65	GIA1, GIA2	
006-B0193-05	V2.07	GEA1-GIA1, GEA1-GIA2	
006-B0203-41	V4.01	GMA1-GIA1, GMA1-GIA2	
006-B0223-09	V2.11	GRS1-GIA1, GRS1-GIA2	
006-B0224-00	V2.01	GMU1	
006-B0319-75	V9.05	PFD1, MFD1	
006-B0328-10	V5.01		
006-B0329-01	V3.03		
006-C0048-00	V2.00	GMU1 FPGA	
006-C0049-00	V02.00	GRS1 FPGA	
006-C0055-00	V01.05	GDC1 FPGA	
-	-	GRS1 MV DB (see below)	
006-B0261-12	V3.02	GDC1-GIA1	
006-B0317-14	V3.20.00	GDL 69	
006-D0425-05	V2.05	GIA1 Audio DB, GIA2 Audio DB	
006-B0398-30	V2.20	GSA 8X	
006-D0744-02	V2.00	GFC700 Cert Gains	

Software Part Number	Approved Version	Function	Remarks
006-B0339-09	V3.1	GPS/WAAS Engine	
006-B0544-2B	V5.65	G1000 GIA 6XW SYS	
006-C0036-04	V1.04	GDU 1XXX FPGA	
006-B0191-04	V2.03	GDU 10XX BB	
006-B0266-10	V2.11	GWX1	
006-C0042-06	V3.01	GWX1 FPGA	
<p>The secondary configuration card, as shown below, must be used in conjunction with system software version P/N 010-00670-22.</p>			

Secondary Configuration P/N	Function	Remarks
010-12074-05	2.0S Engine Upgrade	

Approved Configurations (Software)	Remark
NOTE: Even though more options may be included in the software loader card, only those shown below are currently approved for installation.	
DA42 Option – Stormscope	
DA42 Option – TAS600 Series Installation	
DA42 Option – GFC700	
DA42 Option – GDL69	
DA42 Option – DME	
DA42 Option – Deicing	
DA42 Option – Aux Fuel Tanks	
DA42 Option – ADF	
DA42 Option – Weather Radar	

Approved Magnetic Field Charts (GRS1 MV DB)		
Software Part Number	Approved Version	Remarks
006-D0159-02	V2010.00	valid until 31-Dec-2016
006-D0159-03	V2015.00	valid until 31-Dec-2021
006-D0159-04	V2020.00	

### **I.9 Mass (Weight) and CG**

n. a.



## II PLANNING INFORMATION

### II.1 Material & Availability

Quantity	Part Number	Description
1	010-00370-13, or 010-00370-14, or 010-00370-15, or 010-00370-16, or 010-00370-17, or 010-00370-19, or 010-00370-20, or 010-00370-21, or 010-00370-22, or 010-00370-23	G1000 Software Loader Card (Diamond DA42)

The required Garmin G1000 Cockpit Reference Guide (CRG) and Pilot's Guide (PG) are referenced to the System Software Version number. The System Software Version number is displayed at the top right side of the MFD Power-up page.

System Software Version	Cockpit Reference Guide	Pilot's Guide
0370.13	P/N 190-00406-03, Rev. B or later appropriate revision	P/N K00-00138-00 including individual Pilot's Guides
0370.14	P/N 190-00406-04, Rev. B or later appropriate revision	P/N 190-00649-00, Rev. A or later appropriate revision
0370.17	P/N 190-00406-05, Rev. B or later appropriate revision	P/N 190-00649-01, Rev. B or later appropriate revision
0370.20	P/N 190-00406-06, Rev. A or later appropriate revision	P/N 190-00649-02, Rev. A or later appropriate revision
0370.22	P/N 190-00406-07, Rev. B or later appropriate revision	P/N 190-00649-03, Rev. B or later appropriate revision
0370.23	P/N 190-00406-08, Rev. A or later appropriate revision	P/N 190-00649-04, Rev. A or later appropriate revision

Software and concurrent documents can be obtained through your Garmin distributor.

### II.2 Special Tools

n. a.

### II.3 Labor effort

Appr. 30 min

**II.4 Credit**

n. a.

**II.5 Reference Documents**

n. a.

**III REMARKS**

1. All measures must be carried out by a certified aircraft maintenance station or a certified aircraft maintenance mechanic
2. Accomplishment of the measures must be confirmed in the log book.
3. In case of any doubt, contact Diamond Aircraft Industries.