

MANDATORY SERVICE BULLETIN

NO. MSB D4-045/7

SUPERSEDES MSB D4-045/6

I TECHNICAL DETAILS

I.1 Category

Mandatory.

I.2 Airplanes affected

Type: DA 40 D

Serial Numbers: 40.080, 40.084, D4.001 and subsequent, 40.DS001 and subsequent equipped with TAE125-01 or TAE 125-02-99 engine provided that OÄM 40-193 (G1000 IFR) or OÄM 40-224 (G1000 VFR) or OÄM 40-268 (G1000 VFR without Autopilot) or OÄM 40-278 (G1000 IFR without Autopilot) is carried out

I.3 Time of Compliance

At next maintenance action

NOTE: Prior compliance with MSBD4-045 or MSBD4-045/1 or MSBD4-045/2 or MSBD4-045/3 or MSBD4-045/4 or MSBD4-045/5 or MSBD4-045/6 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.

I.7 Approval

The technical information or instructions contained in this document relate to the Design Change Advisory No. MÄM 40-319/b and MÄM 40-497, which have been approved under the authority of EASA Design Organization Approval No. EASA.21J.052.

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

I.8 Accomplishment/Instructions

I.8.1 **Applicable to TAE 125-01 engine**

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 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 according to G1000 Line Maintenance and Configuration Manual, latest effective issue, or other related Garmin documents may be carried out on every aircraft.

NOTE: It is highly recommended always to use the latest approved software system with the related manifests.

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
System			
010-00370-13	V1.00		
Manifest			
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-GAI2	
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	

Software Part Number	Approved Version	Function	Remarks
-	-	GRS1 MV DB (see below)	
006-D0202-13	V2.10		
006-B0261-03	V2.05	GDC1-GIA1	
System			
010-00370-14	V1.00		
Manifest			
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-GAI2	
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-D0202-14	V2.11		
006-B0261-03	V2.05	GDC1-GIA1	
System			
010-00370-17	V1.00		
Manifest			
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-GAI2	
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-D0202-15	V2.12		
006-B0261-03	V2.05	GDC1-GIA1	

Approved Configurations (Software)	Remark
DA40D Factory Base Configuration	
DA42/DA40D DME Option	Only in conjunction with System 010-00370-13 or higher
DA42/DA40D ADF Option	
DA42/DA40D Stormscope Option	
DA40D 1.7 Liter Engine Option	Only in conjunction with System 010-00370-17 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	

I.8.2 Applicable to TAE 125-02-99 engine

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 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 according to G1000 Line Maintenance and Configuration Manual, latest effective issue, or other related Garmin documents may be carried out on every aircraft.

NOTE: It is highly recommended always to use the latest approved software system with the related manifests.

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
System			
010-00370-15	V1.00		
Manifest			
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-D0202-15	V2.12		
006-B0261-03	V2.05	GDC1-GIA1	
-	-	-	
-	-	-	
-	-	-	

Software Part Number	Approved Version	Function	Remarks
System			
010-00370-17	V1.00		
Manifest			
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-D0202-15	V2.12		
006-B0261-03	V2.05	GDC1-GIA1	

Approved Configurations (Software)	Remark
DA40D Factory Base Configuration	
DA42/DA40D DME Option	Only in conjunction with System 010-00370-15 or higher
DA42/DA40D ADF Option	
DA42/DA40D Stormscope Option	

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	

I.9 Mass (Weight) and CG

n. a.

II PLANNING INFORMATION

II.1 Material & Availability

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