

TEMPORARY REVISION

TR-MÄM 62-1007

GARMIN G1000 NXi PHASE II

This temporary revision TR-MÄM 62-1007 is approved in conjunction with the Mandatory Design Change Advisory MÄM 62-1007, and is valid in conjunction with the latest revision of the DA 62 Airplane Flight Manual (AFM), until this temporary revision has been incorporated into the AFM.

The limitations and information contained herein either supplement, or in the case of conflict, override those in the AFM.

The technical information contained in this document has been approved by the Canadian Department of Transport.

Doc. No.	Chapter	Affected Pages
11.01.05-E	1	1-3a, 1-20a, 1-22a
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Instructions:

- Print this document on 8.5" x 11" yellow paper (single sided).
- Copy on yellow paper (single sided) at a reduced size of 72% to get the correct size for the AFM.
- Cut the paper to 6" x 8.5" and punch the holes on the left side of each page.
- Insert the cover page as the first page of the AFM.
- Insert the pages of this temporary revision in front of the corresponding pages in the AFM.
- Sign the Temporary Revision Log as having inserted this temporary revision.
- Keep this temporary revision until the information has been incorporated into the DA 62 AFM.

1.1 INTRODUCTION

The following is added to the existing table:

Modification	Source	Installed	
Garmin G1000 NXi Phase II	MÄM 62-1007	<input type="checkbox"/> Yes	<input type="checkbox"/> No

The following paragraph is amended to read:

This Airplane Flight Manual must be kept on board the airplane at all times. Its designated place is the side bag of the forward left seat.

1.8 G1000 AVIONICS SYSTEM

The following paragraph is amended to read:

4. If the Garmin GWX 70 weather radar system is installed, it can be used to aid the pilot in avoiding thunderstorms and associated turbulence or for ground mapping. The GWX 70 shall be used to avoid severe weather and not for penetrating severe weather. Pulse type weather radar systems like the GWX 70 detect precipitation only, not clouds or turbulence. The display may indicate clear areas between intense returns, but this does not necessarily mean it is safe to fly between them. As installed on the DA 62, the Garmin GWX 70 has a demonstrated range of 160 nautical miles. Refer to Garmin G1000 Pilot's Guide for the DA 62, P/N 190-01895-() for Garmin G1000, P/N 190-01904-() for G1000 NXi Phase I, and P/N 190-02621-() for G1000 NXi Phase II, appropriate revision for further information.

The following paragraph is added:

5. Phase II of the NXi installation is accomplished in accordance with MÄM 62-1007. This upgrades the GIA 63W to GIA 64W, GMA 1347 to GMA 1360, GEA 71 to GEA 71B, and allows the installation of the Flight Stream 510 Bluetooth and Wi-Fi transceiver.

1.9 SOURCE DOCUMENTATION

1.9.3 AVIONICS SYSTEM

The following is amended to read:

Documents: G1000 Cockpit Reference Guide
P/N 190-01896-(), appropriate revision

G1000 Pilot's Guide
P/N 190-01895-(), appropriate revision

G1000 NXi Cockpit Reference Guide
P/N 190-01905-(), appropriate revision (phase I installation)
P/N 190-02622-(), appropriate revision (phase II installation)

G1000 NXi Pilot's Guide
P/N 190-01904-(), appropriate revision (phase I installation)
P/N 190-02621-(), appropriate revision (phase II installation)

2.16 OTHER LIMITATIONS

2.16.5 GARMIN G1000 AVIONICS SYSTEM

The following is amended to read:

G1000 installed:

- 1a. The Garmin G1000 Cockpit Reference Guide P/N 190-01896-(), appropriate revision must be immediately available to the flight crew.

G1000 NXi phase I (MÄM 62-254) installed:

- 1b. The Garmin G1000 NXi Cockpit Reference Guide P/N 190-01905-(), appropriate revision must be immediately available to the flight crew.

G1000 NXi phase II (MÄM 62-1007) installed:

- 1c. The Garmin G1000 Cockpit Reference Guide P/N 190-02622-(), appropriate revision must be immediately available to the flight crew.

NOTE

Refer to DAI MSB 62-003 for information regarding the appropriate revisions of the Garmin G1000 Cockpit Reference Guide, and the appropriate revisions of the Garmin G1000 NXi Cockpit Reference Guide.

The following is amended to read:

2a. The G1000 must utilize the Garmin software images shown in the following table:

G1000 Equipped Aircraft		
Software Part Number	Approved Version	Function
System	Refer to the latest revision of DAI MSB 62-003 for information regarding the proper approved software version(s) for the given aircraft configuration.	
006-B2056-()		
Manifest		
006-B0172-()		GTX1
006-B0193-()		GEA1
006-B0203-()		GMA1
006-B0223-()		GRS1
006-B0224-()		GMU1
006-B0319-()		PFD1, MFD1
006-C0048-()		GMU1 FPGA
006-C0049-()		GRS1 FPGA
006-C0055-()		GDC1 FPGA
006-B0261-()		GDC1
006-D0425-()		GIA1 Audio, GIA2 Audio
006-B0398-()		GSA 8X
006-D5262-()		GFC700 Cert Gains (GFC700 & ESP/USP)
006-D5262-()		GFC700 Cert Gains (Increased Availability)
006-B0339-()		GPS1, GPS2
006-B0544-()		GIA1, GIA2
006-C0036-()		GDU 1XXX FPGA
006-B0756-()		GWX1
006-C0119-()		GWX1 FPGA

The following is added:

2b. The G1000 NXi must utilize the Garmin software images shown in the following table:

G1000 NXi Equipped Aircraft				
Software Part Number (Phase I)	Software Part Number (Phase II)	Software Version	Software Name	
System	System	Refer to the latest revision of DAI MSB 62-003 for information regarding the proper approved software version(s) for the given aircraft configuration.		
006-B2056-()	006-B2056-()			
Manifest	Manifest			
006-B0081-()	006-B2371-()			COM 1, COM 2
				FS510
	006-B0742-()			GCU 1
006-B1838-()	006-B1838-()			GDC 1
	006-B1902-()			GDL69
006-B0193-()	006-B2139-()			GEA 1
006-B0544-()	006-B2548-()			GIA 1, GIA 2
006-B0203-()	006-B2210-() 006-B2212-()			GMA 1
006-B0224-()	006-B0224-()			GMU 1
006-B0339-()	006-B1827-()			GPS 1, GPS 2
006-B1838-()	006-B1838-()			GRS 1
006-B0398-()	006-B0398-()			GSA PTCH CTL GSA PTCH MON GSA PTCH TRM GSA ROLL CTL GSA ROLL MON GSA YAW CTL GSA YAW MON
006-B1607-()	006-B1607-() 006-B1797-()			GTX 1
	006-B0756-()			GWX
006-B1177-()	006-B1177-()			MFD 1, PFD 1
006-B0082-()	006-B2253-()			NAV 1, NAV 2

2.16.6 AUTOPILOT LIMITATIONS

The following paragraph is removed:

4. The Garmin G1000 Cockpit Reference Guide for the Diamond DA 62 P/N 010-01896-(), or Garmin G1000 NXi Cockpit Reference Guide for the Diamond DA62 P/N 010-01905-() approved revision must be immediately available to the flight crew.

4A.1 INTRODUCTION

The following NOTE is amended to read:

NOTE

Normal operating procedures for GFC 700 are described in the Garmin G1000 Cockpit Reference Guide P/N 190-01896-() appropriate revision, and the Garmin G1000 Pilot's Guide for the Diamond DA 62 P/N 190-01895-() appropriate revision. If MÄM 62-254 is installed, normal operating procedures for GFC 700 are described in the Garmin G1000 NXi Cockpit Reference Guide P/N 190-01905-() appropriate revision, and the Garmin G1000 NXi Pilot's Guide for the Diamond DA 62 P/N 190-01904-() appropriate revision. If MÄM 62-1007 is installed, normal operating procedures for GFC 700 are described in the Garmin G1000 NXi Cockpit Reference Guide P/N 190-02622-() appropriate revision, and the Garmin G1000 NXi Pilot's Guide for the Diamond DA 62 P/N 190-02621-() or later.

6.5 EQUIPMENT LIST AND EQUIPMENT INVENTORY

The following is added to the existing table:

Airplane Serial No.:		Registration:		Date:		Mass		Lever Arm	
Description	Type	Part No.	Manufacturer	S/N	Installed	lb	kg	in	m
COMMUNICATION/NAVIGATION									
Audio panel/Maker/ICS	GMA 1360	011-03568-00	Garmin			1.860	0.840		
Integrated avionics #1	GIA 64W	011-03711-00	Garmin			5.400	2.450		
Integrated avionics #2	GIA 64W	011-03711-00	Garmin			5.400	2.450		
Transponder	GTX 345R		Garmin						
GPS #1 antenna	GA 37	013-00245-00	Garmin						
Data link processor	GDL 69A SXM	011-03177-10	Garmin						

Airplane Serial No.:		Registration:		Date:		Mass		Lever Arm	
Description	Type	Part No.	Manufacturer	S/N	Installed	lb	kg	in	m
<i>ENGINE</i>									
<i>ENGINE INDICATING</i>									
Engine/Airframe unit	GEA 71B	011-03682-00	Garmin			1.800	0.820		

7.13 GARMIN G1000 INTEGRATED AVIONICS SYSTEM

7.13.1 GENERAL

The following paragraph is added:

If MÄM 62-1007 is installed, refer to the Garmin G1000 NXi Cockpit Reference Guide P/N 190-02622-(), and Garmin G1000 NXi Pilot's Guide for the Diamond DA 62, P/N 190-02621-() for complete descriptions of the G1000 NXi system and operating procedures.

7.13.7 GWX 70 WEATHER RADAR

The following paragraph is amended to read:

The Garmin GWX 70 Weather Radar System provides information about precipitation conditions ahead of the airplane. The system consists of a combined microwave transmitter and receiver system in the nose cone, mounted to the front baggage compartment bulkhead. The system is connected to the electrical system of the airplane via a circuit breaker on the instrument panel. The processed data of the GWX 70 system is displayed on the Garmin G1000 MFD. Refer to the Garmin G1000 Pilot's Guide P/N 190-01895-(), the Garmin G1000 NXi Pilot's Guide P/N 190-01904-() (phase I), or the Garmin G1000 NXi Pilot's Guide P/N 190-02621-() (phase II), appropriate revisions for more information.

7.13.8 PFD/MFD CONTROL UNIT (KEYPAD)

The following paragraph is amended to read:

The optional PFD/MFD control unit is a user interface allowing for ease of data entry, PFD/MFD operation and NAV/COM tuning. The PFD/MFD control unit is installed in the center armrest. Access to the control unit is accomplished by a folding mechanism. The control unit must be stowed during take-off and landing, all emergencies and abnormal operating procedures.

For more information, refer to the Garmin G1000 Pilot's Guide P/N 190-01895-(), the Garmin G1000 NXi Pilot's Guide P/N 190-01904-() (phase I), or the Garmin G1000 NXi Pilot's Guide P/N 190-02621-() (phase II), appropriate revisions or the latest effective issue.

7.14 AVIONICS

7.14.1 AUTOPILOT SYSTEM

General

The following paragraph is added:

If MÄM 62-1007 is installed, refer to the Garmin G1000 NXi Cockpit Reference Guide P/N 190-02622-(), and the Garmin G1000 NXi Pilot's Guide for the Diamond DA 62 P/N 190-02621-() for complete descriptions of the G1000 NXi system and operating procedures.

9.2 LIST OF SUPPLEMENTS

The following table is amended:

Airplane S/N:		Registration:		Date:	
Sup. No.	Title	Rev. No.	Date	Applicable	
				YES	NO
A33	SBAS and P-RNAV Operation with the Garmin Integrated Avionics System G1000 and G1000 NXi	0	15-Aug-2019	<input type="checkbox"/>	<input type="checkbox"/>
A35	Garmin GTX 335R/345R with ADS-B	0	15-Aug-2019	<input type="checkbox"/>	<input type="checkbox"/>