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**MANDATORY SERVICE BULLETIN NO. MSB 40-096 REV. 0**

**I TECHNICAL DETAILS**

**I.1 Category**

Mandatory.

**I.2 Airplanes Affected**

Model: DA 40-180

S/N: 40.1210 through 40.1232 with the G1000 NXi Phase II (MÄM 40-1008) and the GFC 700 autopilot (OÄM 40-1011) installed.

**I.3 Date of Effectivity**

04 August 2022

**I.4 Time of Compliance**

At next scheduled maintenance.

**I.5 Subject**

Installation of a limitation placard for the GFC 700 autopilot.

**I.6 Reason**

It has come to Diamond's attention that some DA 40-180 aircraft have been delivered without an instrument panel placard specifying the limitations of the GFC 700 autopilot. This service bulletin describes the installation of a limitation placard for aircraft where the placard is missing.

**I.7 Concurrent Documents**

None.

**I.8 Approval**

The technical information and instructions contained in this document relate to Design Change Advisory No. OÄM 40-1011, which has been approved as part of the type design.

**I.9 Accomplishment/Instructions**

See WI-MSB 40-096, latest effective issue.

**I.10 Mass (Weight) and CG**

The change in mass and CG is negligible.

## **II PLANNING INFORMATION**

### **II.1 Material and Availability**

See WI-MSB 40-096, latest effective issue.

### **II.2 Special Tools**

None.

### **II.3 Labour Effort**

5 minutes will be required to accomplish this service bulletin.

*This estimate is for direct labour performed by a technician, and it does not include setup, planning, familiarization, cure time, part fabrication, or tool acquisition.*

### **II.4 Credit**

Parts and labour for aircraft missing the limitation placard.

### **II.5 Reference Documents**

DA 40 Series Airplane Maintenance Manual, Doc. No. 6.02.01, latest effective issue.

### **III REMARKS**

1. All work must be done by a certified aircraft service station or a certified aircraft maintenance mechanic.
2. All work, in particular which is not especially described in this service bulletin, must be done in accordance with the referenced maintenance manual.
3. Completion of all work must be recorded in the logbook.
4. In case of doubt, contact Diamond Aircraft Industries Inc.

To obtain satisfactory results, procedures specified in this service bulletin must be accomplished in accordance with accepted methods and current government regulations. Diamond Aircraft cannot be responsible for the quality of work performed in accomplishing the requirements of this service bulletin. Diamond Aircraft reserves the right to void continued warranty coverage in the area affected by this service bulletin if it is not incorporated.

If you no longer own the aircraft to which this service bulletin applies, please forward it to the current owner, and send the name of the current owner to Diamond Aircraft at the address below.

Diamond Aircraft Industries Inc.  
1560 Crumlin Sideroad, London, Ontario, Canada  
N5V 1S2

Customer Support:  
Phone: (519) 457-4041, Fax: (519) 457-4045  
E-mail: support-canada@diamondaircraft.com

Technical Publications:  
E-mail: Techpubs@diamondaircraft.com



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**EXECUTION REPORT TO  
SERVICE BULLETIN  
MSB 40-096 REV. 0**

**AIRPLANE DATA**

Airplane serial number \_\_\_\_\_

Airplane registration \_\_\_\_\_

Airplane operator \_\_\_\_\_

Hours of operation of airplane (TSN) \_\_\_\_\_

Typical operation of airplane private, club, training, other: \_\_\_\_\_

**MAINTENANCE DATA**

Date of maintenance \_\_\_\_\_

Maintenance carried out by \_\_\_\_\_

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Name Signature Date

Please e-mail the completed form to [Techpubs@diamondaircraft.com](mailto:Techpubs@diamondaircraft.com).

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**WORK INSTRUCTION WI-MSB 40-096 REV. 0**

**I GENERAL INFORMATION**

**I.1 Subject**

Installation of a limitation placard for the GFC 700 autopilot.

**I.2 Reference Documents**

DA 40 Series Airplane Maintenance Manual, Doc. No. 6.02.01, latest effective issue.

**I.3 Remarks**

1. All work must be done by a certified aircraft service station or a certified aircraft maintenance mechanic.
2. All work, in particular which is not especially described in this work instruction, must be done in accordance with the referenced maintenance manual.
3. In case of doubt, contact Diamond Aircraft Industries Inc.

**II DRAWINGS, SPECIAL TOOLS & MATERIALS**

**II.1 Drawings**

None.

**II.2 Special Tools**

None.

**II.3 Material**

Item	Quantity	Part Number	Description
1	1	DA4-1131-25-03-SB	Placard, autopilot limitations

### III INSTRUCTIONS

1. Inspect the instrument panel for the presence of the limitation placard shown in Figure 1.

**LIMITATIONS FOR GFC 700 AUTOPILOT SYSTEM:**  
DO NOT USE AP IF "ALTERNATE STATIC" IS OPEN.  
CONDUCT AP AND TRIM CHECK PRIOR TO EACH FLIGHT (SEE AFM).  
AUTOPILOT OFF DURING TAKE-OFF AND LANDINGS.  
MAXIMUM SPEED FOR AUTOPILOT OPERATION IS 165 KIAS.  
MINIMUM SPEED FOR AUTOPILOT OPERATION IS 70 KIAS.  
**MINIMUM ALTITUDE FOR AUTOPILOT OPERATION:**  
CRUISE, CLIMB DESCENT AND MANEUVERING: 800 FEET AGL  
APPROACH: 200 FEET AGL

Figure 1. GFC 700 autopilot limitation placard.

2. If there is no placard specifying the limitations of the GFC 700 autopilot, install item 1 under the circuit breakers as shown in Figure 2. Clean the area with isopropyl alcohol prior to installing the placard. The area must be free of contamination. Take care when positioning the placard. Attempting to reposition the placard may damage it.

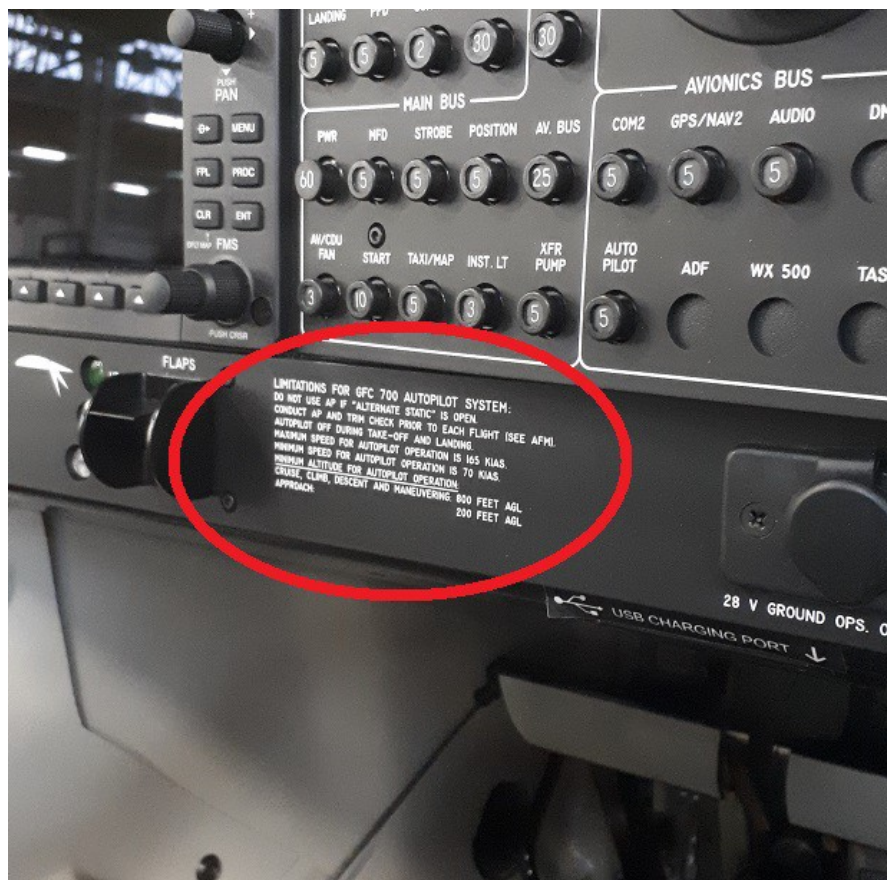


Figure 2. Location of the GFC 700 autopilot limitation placard.

Diamond Aircraft Industries  
**WORK INSTRUCTION**  
Model DA 40-180

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3. Clean working areas, and check for foreign objects.
4. Make all necessary entries in the logbooks.
5. Submit the execution report to [Techpubs@diamondaircraft.com](mailto:Techpubs@diamondaircraft.com).

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