

## MANDATORY SERVICE BULLETIN

MSB 40-085/1  
MSB D4-106/1  
MSB F4-036/1  
MSB 40NG-058/1

Supersedes MSB 40-085, MSB D4-106, MSB F4-036,  
and MSB 40NG-058

### **I TECHNICAL DETAILS**

#### **I.1 Category**

Mandatory.

#### **I.2 Airplanes affected**

Type: DA 40, DA 40 D, DA 40 F, DA 40 NG

All aircraft with Milled Rudder Pedal Assemblies:  
(P/N DA4-2723-31-00\_02)

#### **I.3 Date of Effectivity**

20-Nov-2018

#### **I.4 Time of Compliance**

Within 100 flight hours or within 1 year from the date of effectivity, whichever is reached first.

#### **I.5 Subject**

Removal of the pilot side gust lock mount.

ATA-Code: 27-20

#### **I.6 Reason**

During production check-out and subsequent investigation, on two airplanes it was noticed that with the adjustable rudder pedals in full forward position, the gust lock mounts slightly touch the canopy gas spring damper, which may cause a slight reduction in available rudder travel. The reason on this two particular airplanes was an unfavorable combination of production tolerances and it cannot be excluded that other airplanes of the same build status are also affected. Therefore this Service Bulletin prescribes removing of the gust lock mounts on the pilot side rudder pedals to ensure sufficient clearance regardless of production tolerances and rudder pedal position.

#### **I.7 Concurrent Documents**

None.

**I.8 Approval**

The technical information or instructions contained in this document relate to the Design Change Advisory No. MÄM 40-1020, which is approved as part of the Type Design.

**I.9 Accomplishments / Instructions**

Comply with WI-MSB 40-085 / WI-MSB D4-0106 / WI-MSB F4-036 / WI-MSB 40NG-058, latest effective issue.

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

Negligible.

**II PLANNING INFORMATION****II.1 Material and Availability**

See WI-MSB 40-085 / WI-MSB D4-0106 / WI-MSB F4-036 / WI-MSB 40NG-058, latest effective issue.

**II.2 Special Tools**

None.

**II.3 Labour Effort**

Approx. 0.5 hours.

**II.4 Credit**

None.

**II.5 Reference Documents**

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

Diamond Aircraft 40 NG Airplane Maintenance Manual, Doc. No. 6.02.15, latest effective issue.

Diamond Aircraft Airplane Flight Manual, Doc. No. 6.01.01 / 6.01.02 / 6.01.05 / 6.01.15, Temporary Revision TR-MÄM-40-1020.

**III REMARKS**

1. All work must be done by a certified aircraft service station or a certified aircraft maintenance mechanic.
2. All work, particular that 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 log book.
4. In case of doubt contact Diamond Aircraft Industries Canada.



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## EXECUTION REPORT TO SERVICE BULLETIN MSB \_\_\_\_\_

### AIRPLANE INFORMATION

Airplane Serial Number \_\_\_\_\_

Airplane Registration \_\_\_\_\_

Airplane Operator \_\_\_\_\_

Hours of operation of airplane \_\_\_\_\_

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

\_\_\_\_\_  
Date, Name, Sign

Please email the completed form to [techpubs@diamondair.com](mailto:techpubs@diamondair.com).

## WORK INSTRUCTION

WI-MSB 40-085

WI-MSB D4-106

WI-MSB F4-036

WI-MSB 40NG-058

### **I GENERAL INFORMATION**

#### **I.1 Subject**

Removal of pilot side gust lock mounts from rudder pedals.

#### **I.2 Reference Documents**

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

Diamond Aircraft 40 NG Airplane Maintenance Manual, Doc. No. 6.02.15, latest effective issue.

#### **I.3 Remarks**

All work must be done by a certified aircraft service station or a certified aircraft maintenance mechanic.

All work, in particular if not described in this work instruction, must be done in accordance with the referenced maintenance manual.

For conversion factors between SI units and US/Imperial units refer to AMM Chapter 02.

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

Quantity	Part Number	Description
2	MS 171532	Pin-Spring

Material is available from Diamond Aircraft Industries.

### III INSTRUCTIONS


1	Position the pilot electrical or mechanical rudder pedal full rearward.
2	Remove the spring pin from the LH and RH Pilot rudder pedal with a 3mm punch with a centering pin (see picture 1). Make sure that the spring pin does not collide with the washer with hole (see picture 2).



Picture 1



Picture 2

3	Remove the gust lock mounts from the rudder pedals.
4	Install the new spring pins into the LH and RH Pilot rudder pedal.
5	<p>Prepare the gust lock belt in accordance with picture 3 for use on the Co-Pilot rudder pedals.</p> <p>Note: the gust lock mounts on the Co-Pilot rudder pedals are already installed. Refer also to the Airplane Flight Manual Temporary Revision TR-MÄM 40-1020.</p>  <p>70cm (27.56in) Band length</p>
6	Incorporate TR-MÄM 40-1020 into the Airplane Flight Manual according to instructions given on the cover sheet of the TR-MÄM 40-1020.
7	Make all necessary entries in the airplane logs.