

MANDATORY SERVICE BULLETIN

MSB 42NG-077

I TECHNICAL DETAILS

I.1 Category

Mandatory.

I.2 Airplanes affected

Type: DA 42 NG, DA 42 M-NG
Serial numbers: 42.N202, 42.N203
42.N205 through 42.N207
42.N210 through 42.N214
42.N229 through 42.N338 and 42.N340
42.MN055, 42.MN057 and 42.MN058

I.3 Date of effectivity

20-Aug-2018

I.4 Time of Compliance

Within 100 flight hours from the date of effectivity, but not later than 20-Aug-2019.

I.5 Subject

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 42-1097, which has been approved under the authority of EASA Design Organization Approval ref. EASA.21J.052.

The technical content of this document has been approved under the authority of DOA ref. EASA.21J.052.

I.9 Accomplishments / Instructions

See WI-MSB 42NG-077, latest effective issue.

I.10 Mass (Weight) and CG

Not affected.

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

See WI-MSB 42NG-077, 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 DA 42 NG Airplane Maintenance Manual, Doc. No. 7.02.15, latest effective issue.

Diamond Aircraft Airplane Flight Manual, Doc. No. 7.01.16-E, Temporary Revision TR-MÄM-42-1097.

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 GmbH.

EXECUTION REPORT TO SERVICE BULLETIN MSB 42NG-077

AIRPLANE INFORMATION

Airplane Serial Number _____

Airplane Registration _____

Airplane Operator _____

Hours of operation of airplane _____

No. of landings _____

Hours of operation-engine LH _____

RH _____

Typical operation of airplane private, club, training, other _____

Date, Name, Sign

Please fax the completed form to Fax No. +43-2622-26780
or e-mail to executionreports@diamond-air.at

WORK INSTRUCTION

WI-MSB 42NG-077

I GENERAL INFORMATION

I.1 Subject

Removal of pilot gust lock mounts from rudder pedals on pilot side.

I.2 Reference Documents

Diamond Aircraft DA 42 NG Airplane Maintenance Manual, Doc. No. 7.02.15, latest effective issue.

I.3 Remarks

- a) All work must be done by a certified aircraft service station or a certified aircraft maintenance mechanic.
- b) All work, in particular if not described in this work instruction, must be done in accordance with the referenced maintenance manual.
- c) For conversion factors between SI units and US/Imperial units refer to AMM Chapter 02.
- d) In case of doubt, contact Diamond Aircraft Industries GmbH.

II DRAWINGS, SPECIAL TOOLS & MATERIALS

II.1 Drawings

None.

II.2 Special Tools

None.

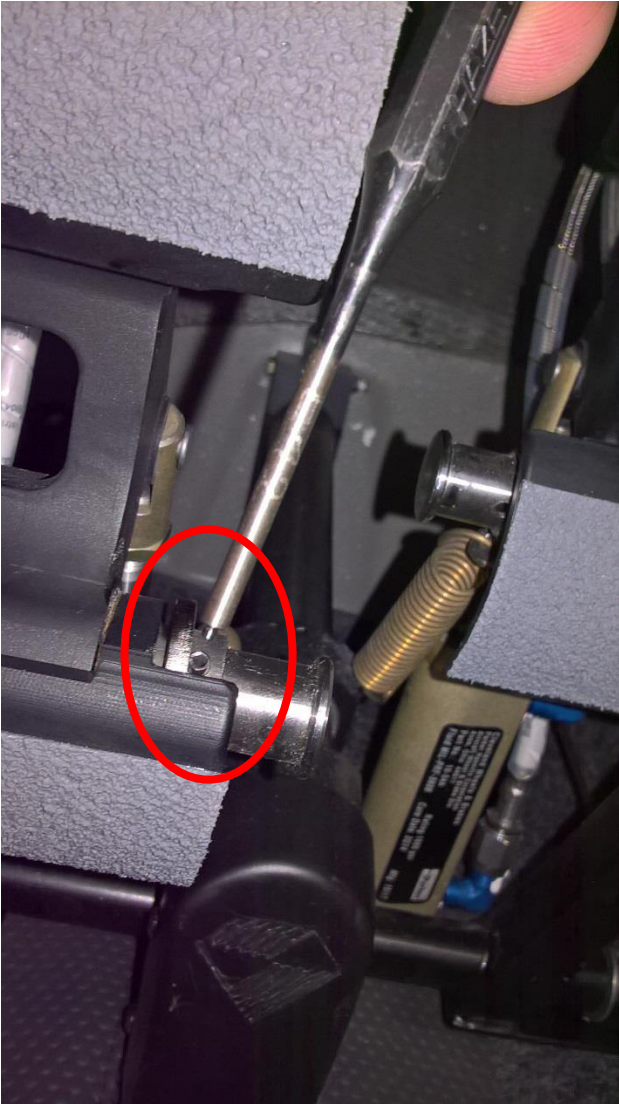
II.3 Material

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 i.a.w. 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 42-1097.</p>  <p>70cm (27.56in) Band length</p>
6	Incorporate TR-MÄM 42-1097 into the Airplane Flight Manual according to instructions given on the cover sheet of the TR-MÄM 42-1097.
7	Make all necessary entries in the airplane logs.