

## RECOMMENDED SERVICE BULLETIN

RSB 40-082/1  
RSB D4-102/1  
RSB F4-035/1  
RSB 40NG-041/1

### **I TECHNICAL DETAILS**

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

Recommended.

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

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

Serial numbers: all airplanes with more than 1000 flight hours

DA 40 NG airplanes with OÄM 40-379 or OSB 40NG-035 installed are not affected.

#### **I.3 Date of effectivity**

24-Jul-2015

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

Within 200 flight hours from the date of effectivity or within 1 year, whichever is reached first.

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

Inspection of NLG elastomer pack center tube

ATA-Code: 32-20

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

There have been cases of undetected wear of the NLG elastomer pack center tube of which one led to failure of the NLG damper. Diamond Aircraft has issued AMM-TR-MÄM 40-808 with updated maintenance instructions in order to assure identification of this wear in due time. An inspection of the NLG elastomer pack center tube is highly recommended to avoid that wear of the center tube remains undetected.

#### **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 40-808 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**

Comply with WI-RSB 40-082, WI-RSB D4-102, WI-RSB F4-035 or WI-RSB 40NG-041, latest effective issues.

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

No change.

# **II PLANNING INFORMATION**

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

See WI-RSB 40-082, WI-RSB D4-102, WI-RSB F4-035 or WI-RSB 40NG-041, latest effective issues.

## **II.2 Special Tools**

None.

## **II.3 Labour Effort**

Approx. 2 hours.

## **II.4 Credit**

None.

## **II.5 Reference Documents**

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

DA 40 NG Airplane Maintenance Manual, Doc. No. 6.02.15, 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, particular those that are 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.



Diamond Aircraft Industries GmbH  
N. A. Otto-Straße 5  
2700 Wiener Neustadt, Austria

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## EXECUTION REPORT TO SERVICE BULLETIN

**RSB 40-082/1**  
**RSB D4-102/1**  
**RSB F4-035/1**  
**RSB 40NG-041/1**

### AIRPLANE DATA

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

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

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

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

No. of landings \_\_\_\_\_

Hours of operation-engine \_\_\_\_\_

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

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

Please fax the completed form to Fax No. +43-2622-26700-1369 or e-mail to  
airworthiness@diamond-air.at

# WORK INSTRUCTION

## WI-RSB 40-082

## WI-RSB D4-102

## WI-RSB F4-035

## WI-RSB 40NG-041

## **I GENERAL INFORMATION**

### **I.1 Subject**

Inspection of the NLG elastomer pack center tube.

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

DA 40 Series Airplane Maintenance Manual, Doc. No. 6.02.01, latest effective issue.  
DA 40 NG Airplane Maintenance Manual, Doc. No. 6.02.15, 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

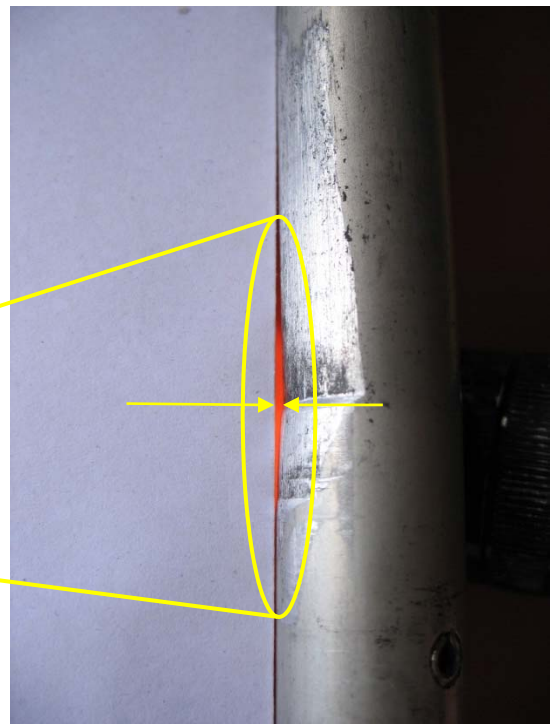
Quantity	Part Number	Description
1	D41-3223-21-00	center tube assembly for DA 40
1	D4D-3223-21-00	center tube assembly for DA 40 D
1	D44-3223-21-00	center tube assembly for DA 40 NG with OÄM 40-307 installed
1	D44-3223-21-00_1	center tube assembly for DA 40 NG with MÄM 40-631 installed
1	D44-3223-21-00X01	center tube assembly for DA 40 NG with OÄM 40-334 installed
1	DIN 985-M12-A2	adjusting nut
a. r.	Molycote DX paste	

Material is available from Diamond Aircraft Industries.

## III INSTRUCTIONS

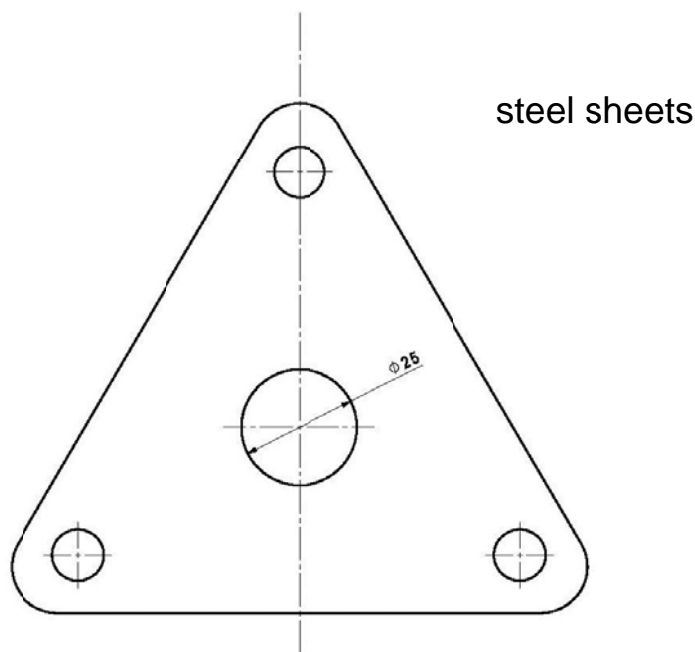
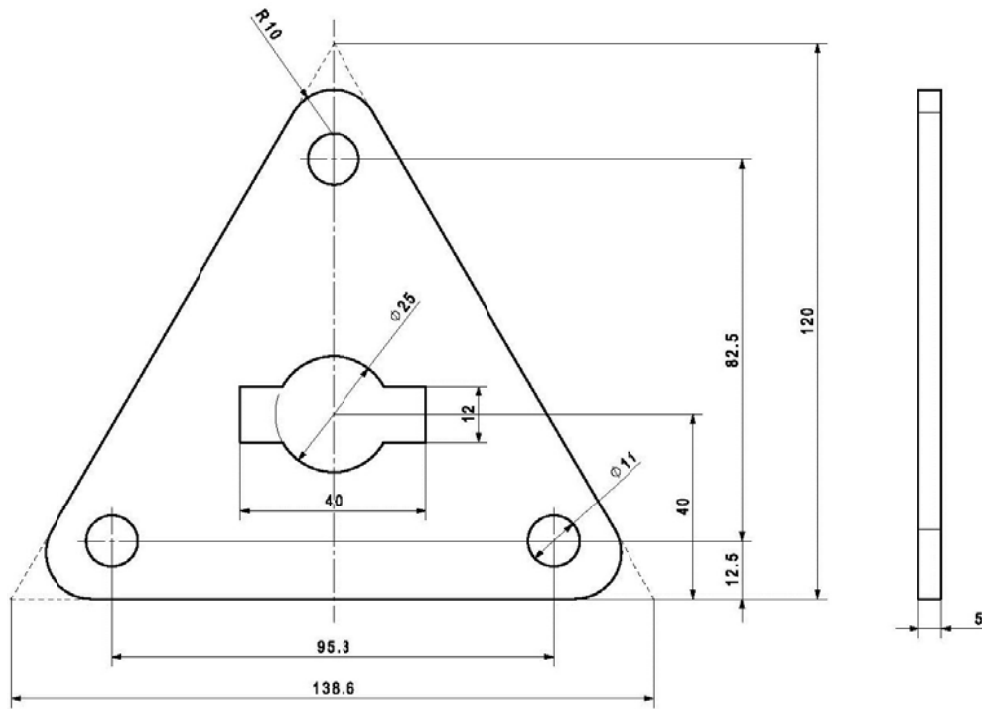
1	Make sure that AMM-TR-MÄM-40-808 is inserted into the AMM or an AMM revision is used into which AMM-TR-MÄM-40-808 has been incorporated.
2	Examine the NLG elastomer pack center tube in accordance with AMM, Section 32-20.
3	If the center tube shows signs of deformation, replace center tube in accordance with AMM, section 32-20.
4	If the center tube shows signs of wear, measure the depth of worn area. Refer to picture 1.
5	If depth of wear exceeds 0.8 mm, replace center tube in accordance with AMM, Section 32-20.  <b>Note:</b> If depth of wear does not exceed 1 mm, a <u>one-time</u> prolongation of the flight operation for further 200 flight hours is granted prior to replacement of the center tube.
6	Check all altered, replaced, repaired parts for proper function.
7	Test all systems in working area for function.
8	Make all necessary entries in the airplane and engine logs.

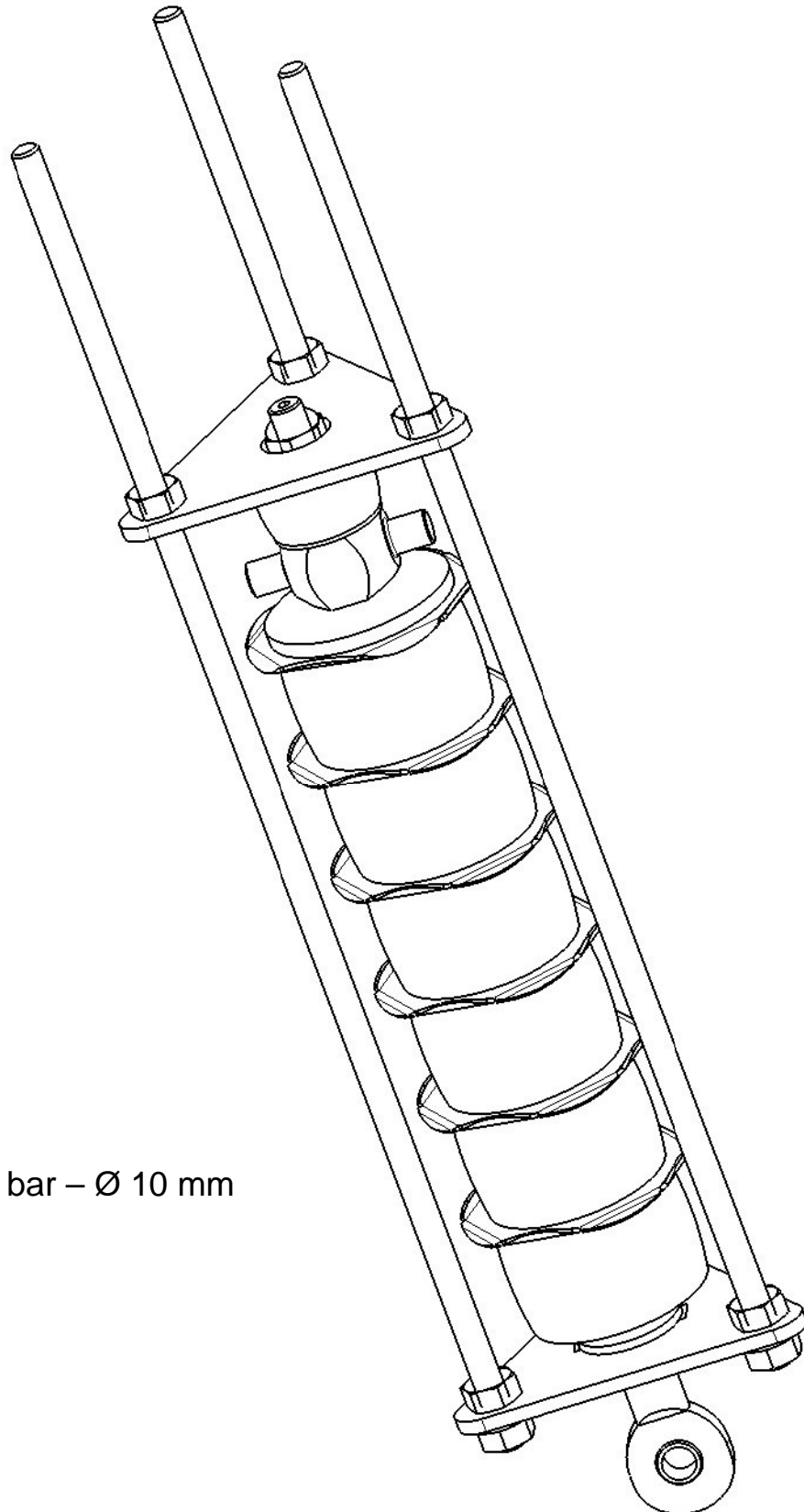
**Note:** Appendix A provides sketches for building a tensioning tool for easier assembly of the NLG damper.



picture 1

## IV APPENDIX A





threaded bar – Ø 10 mm