

MANDATORY SERVICE BULLETIN NO. MSB40-02 Revision 1 (supersedes Revision -)

I. TECHNICAL DETAILS

1.1 Category:

Mandatory

1.2 Airplanes affected:

DA 40 serial numbers 40.005 through 40.022

1.3 Time of Compliance:

At the next scheduled inspection but no later than 31.12.2002.

1.4 Subject:

ATA-Code: 32

1.5 Reason:

Due to manufacturing problems the quality of the tubing ends of the steel tubes in the wheel brake system is inadequate. To improve the design the steel tubes have been replaced by Teflon hoses. This MSB describes this replacement.

1.6 Concurrent documents:

✧ DA 40 Airplane Maintenance Manual (AMM), Doc.No. 6.02.01

1.7 Approval:

The technical information contained in this document has been approved under the authority

of JAA Design Organisation Approval No. MOT JA-01.

1.8 Accomplishment/Instructions

1. empty the brake system according to the AMM
2. remove the steel tube by open the fittings on both ends (see fig. 1)

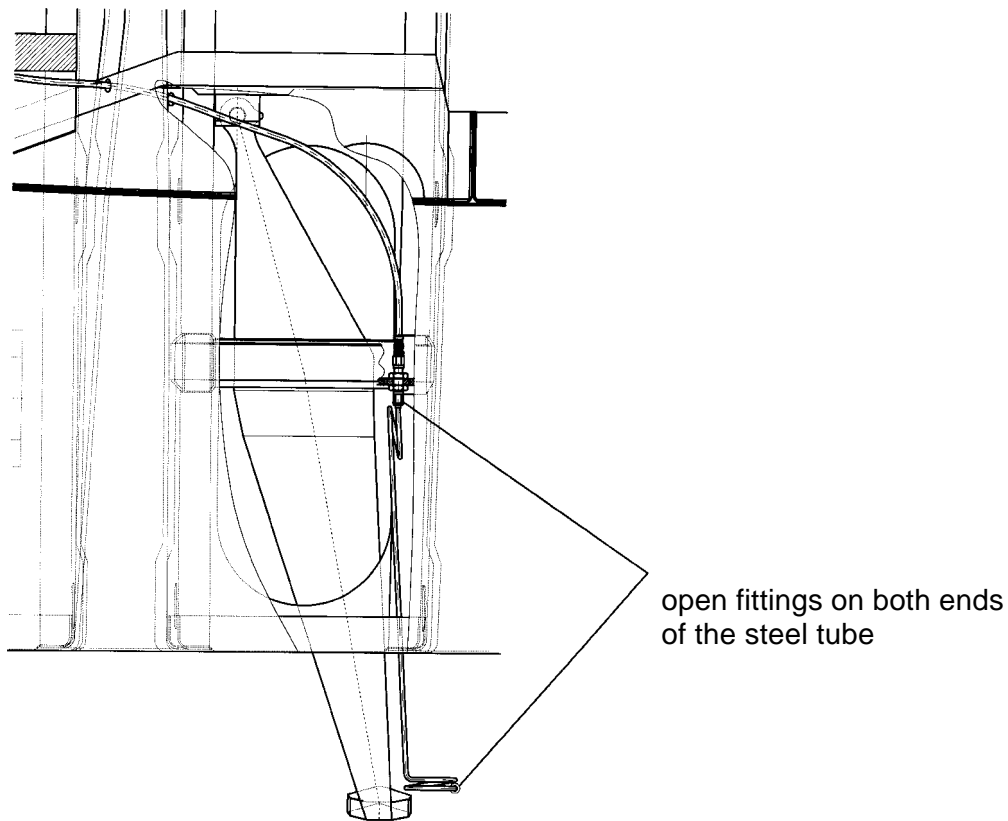


fig. 1

3. remove the 45° elbow at the brake caliper
4. install the 90° elbow at the brake caliper

5. glue the fastening elements to the main landing gear strut with MS 9380 adhesive (see fig. 2)
6. attach the Teflon hose at both ends to the fittings, close the fittings and fix the Teflon hose to the main landing gear strut with the fastening elements (see fig. 2)

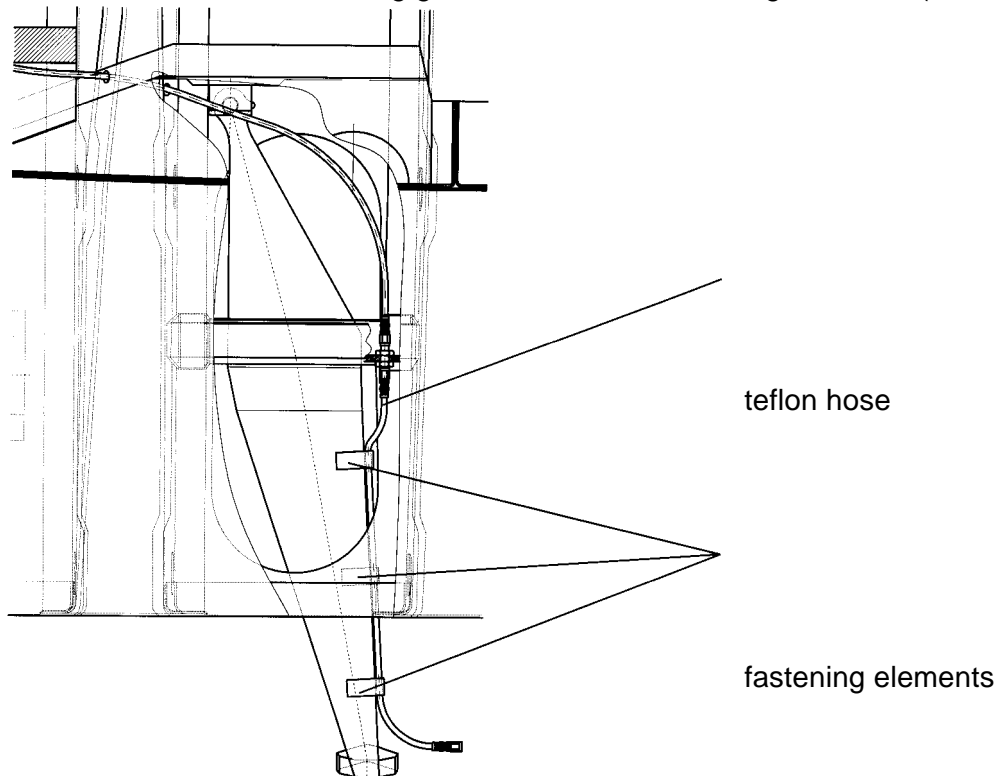


fig. 2

7. fill the brake system with brake fluid
8. bleed the system according to the AMM

1.9 Mass (Weight) and CG:

not affected

II. PLANNING INFORMATION**2.1 Material & Availability:**

Part	Quantity	Part Number
Teflon Hose	2	AE3660000B035
Fitting	2	MS 20822 - 30 (90° - 1/4")
Fastening Element	6	D41-3243-12-00
Adhesive		MS 9380

The parts are available at Diamond Aircraft Industries, N.A.Otto-Straße 5, A-2700 Wr.Neustadt (Tel. +43(0)2622/26700-50, Fax: +43(0)2622/89360).

2.2 Special Tools:

No special tools are required.

2.3 Reference documents:

Diamond DA40 Airplane Maintenance Manual, Doc.No.6.02.01