

MANDATORY SERVICE BULLETIN NO. MSB 40-012

I. TECHNICAL DETAILS

1.1 Category

Mandatory.

1.2 Airplanes affected

DA 40 serial numbers 40.006 - 40.020, 40.022 - 40.027, 40.030 - 40.031,
40.038 - 40.040, 40.046 - 40.047, 40.050, 40.052, 40.054 - 40.055,
40.057

1.3 Time of Compliance

Prior to next flight.

1.4 Subject

Mixture Control Cable

ATA-Code: 76-10

1.5 Reason

At some mixture control cables in case of high friction within the cable the crimp of the cable may fail, so that the mixture can not be adjusted anymore.
The critical type of mixture control cable can be identified by type of crimp.

1.6 Concurrent documents

None.

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. Check installed mixture control cable for type of crimp according to the pictures below.



Picture 1



Picture 2

2. If the installed mixture control cable has a crimp like shown in Picture 1, it should be replaced by mixture control cable part number 45.0350 in accordance with Airplane Maintenance Manual (AMM) Doc. No. 6.02.01.
3. If the installed mixture control cable has a crimp like shown in Picture 2, there is no further action required.

1.9 Mass (Weight) and CG

Not affected.

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

Part	Quantity	Part Number
Mixture cable	1	45.0350 or 45.0350/1

The parts are available at:

Diamond Aircraft Industries, N.A.Otto-Straße 5, A-2700 Wr.Neustadt

2.2 Special Tools

No special tools are required.

2.3 Labour effort

2.5 hours.

2.4 Credit

The mixture control cable will be supplied free of charge.

2.4 Reference documents

Diamond DA40 Airplane Maintenance Manual, Doc. No. 6.02.01.

III. REMARKS

Unless otherwise prescribed, the work must be carried out in accordance with the instructions of the Airplane Maintenance Manual, Doc. No. 6.02.01. The work must be carried out by the manufacturer, a certified aircraft service station or a certified aircraft maintenance mechanic.

Temporary flights to a service station are permitted under the following conditions:

- Mixture setting always full rich
- Ensure fuel flow at take-off power is above 14 USgal/h prior to take-off
- Upon reaching safety height reduce MP to 25 inHg or lower as required
- To lean is not permitted throughout the whole flight.