

MANDATORY SERVICE BULLETIN NO. MSB40-007/4

SUPERSEDES MANDATORY SERVICE BULLETIN MSB40-007/3

I. TECHNICAL DETAILS

1.1 Category

Mandatory.

1.2 Airplanes affected

DA 40 serial numbers 40.005 through 40.079 and 40.200 through 40.209.

1.3 Time of Compliance

Item 1.8.1 every 50 hours inspection

Item 1.8.2 at holder's discretion
or

immediately if cracks have been detected during the inspection under item 1.8.1

1.4 Subject

Exhaust System

ATA-Code: 78-10

1.5 Reason

Cracks at the flanges of the exhaust system tubes.

Due to the occurrence of cracks at the flanges of the exhaust system tubes, the design of the risers has been changed by inserting a second clamp for more flexibility.

1.6 Concurrent documents

h	DA 40 Airplane Maintenance Manual (AMM), Doc.No. 6.02.01
h	Drawings:
	D41-7806-00-00 "d" Exhaust system installation
	WCC DA40 "b" Exhaust System
	WCC DA40-1 "b" Riser Assy
	WCC DA40-2 "b" Riser Assy
	WCC DA40-3 "b" Riser Assy
	WCC DA40-5 "b" Riser Assy
	WCC DA40-8 "- " Connection tube
	WI-D41-7806-10-00 Exhaust Risers modification and mounting

1.7 Approval

The information and instructions contained in this document relate to change no. MÄM 40-066, which has been approved under the authority of JAA Design Organization Approval No. MOT JA-01.

The technical information contained in this document has been approved under the authority of JAA Design Organization Approval No. MOT JA-01.

1.8 Accomplishment/Instructions

1.8.1 Inspection

It is required to perform a thorough visual inspection of the flanges of the exhaust system tubes with mirror and flashlight, during each 50 hours inspection.

1.8.2 Exchange of parts

- a. remove the exhaust system according to the AMM
- b. open the clamps on the risers
- c. connect the new connection tubes and the new shorter risers with clamps
- d. do not tighten the clamps
- e. replace the existing risers by the new connection tube riser combination and mount them to the muffler
- f. do not tighten the clamps
- g. mount the exhaust system to the engine according to the AMM
- h. tighten all screws according to the AMM
refer to AMM Chapter 20 for proper torque

It is possible to modify the existing risers according to the attached drawing WI-D41-7806-00-00"a" instead of replacing them by new short risers.

1.9 Repetitive Actions

Item 1.8.1 (every 50 hours inspection).

Terminate Action: canceled.

1.10 Mass (Weight) and CG

Not affected.

II. PLANNING INFORMATION

2.1 Material & Availability

Part	Quantity	Part Number
Connection tube	4	DA40-8
Riser Cyl. 1	1	DA40-1, B
Riser Cyl. 2	1	DA40-3, B
Riser Cyl. 3	1	DA40-2, B
Riser Cyl. 4	1	DA40-5, B
Clamp half	16	A169-14
Bolt	32	AN3-C4A
Washer	32	AN960-10L
Nut	32	MS21043-3
Gasket	4	L-77611
Nut	8	L-STD-1410
Washer	8	L-STD-35
Washer	8	L-STD-475

The parts are available at Diamond Aircraft Industries, N.A.Otto-Straße 5, A-2700 Wr. Neustadt (Phone. +43(0)2622/26700-50, Fax: +43(0)2622/26620, email: p.sinabell@diamond-air.at).

2.2 Special Tools

No special tools are required.

2.3 Labor effort

1 hour.

2.4 Reference documents

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

III. REMARKS

3.1 With this Service Bulletin service instruction SI 40-006 will be canceled.