

OPTIONAL SERVICE BULLETIN

OSB 40-029/1 & OSB D4-031/1

Supersedes OSB 40-029 and OSB D4-031

I. TECHNICAL DETAILS

1.1 Category

Optional.

1.2 Airplanes affected

DA 40

Serial numbers 40.006 up to and incl. 40.079,
40.081 up to and incl. 40.083
40.201 up to and incl. 40.385

DA 40 D

Serial numbers 40.080, 40.084,
D4.001 up to and incl. D4.119

1.3 Time of Compliance

At owner's discretion.

1.4 Subject

The optional installation of the maintenance access holes in rear seats.

ATA-Code: 25-20, passenger compartment

1.5 Reason

The optional installation of the maintenance access holes in rear seats.

1.6 Concurrent documents

- Work Instruction No. WI-OSB 40-029 (DA 40) or WI-OSB D4 -031 (DA 40 D), latest effective issue.
- Temporary Revision to the Aircraft Maintenance Manual AMM-TR-MÄM-40-116 if the AMM revision status is 4 or lower.

1.7 Approval

The information and instructions contained in this document relate to the Design Change Advisory MÄM 40-116 which has been approved under the authority of EASA Design Organization Approval No. EASA.21J.052

The technical information contained in this document has been approved under the authority of EASA Design Organization Approval No. EASA.21J.052.

1.8 Measures

Work Instruction No. WI-OSB 40-029 (DA 40) or WI-OSB D4-031 (DA 40 D), latest effective issue, must be complied with.

1.9 Mass (Weight) and CG

The change in mass and c. g. is negligible.

II. PLANNING INFORMATION

2.1 Material & Availability

All necessary parts with specific part numbers can be ordered from Diamond Aircraft Industries GmbH or from your local General Distributor or Diamond Service Center. All other parts shall be procured locally.

2.2 Special Tools

No special tools are required.

2.3 Labor effort

Appr. 14 hours.

2.4 Credit

None.

2.4 Reference documents

- DA 40 Series Airplane Maintenance Manual, Doc. No. 6.02.01.

III. REMARKS

1. All measures must be carried out by the manufacturer, a certified aircraft service station or a certified aircraft maintenance mechanic.
2. Accomplishment of the measures must be confirmed in the log book.
3. In case of doubt, contact Diamond Aircraft.

WORK INSTRUCTION

WI-OSB-40-029
WI-OSB-D4-031

„Maintenance access holes in rear seats“

I. GENERAL INFORMATION

1.1 Subject:

The optional installation of the maintenance access holes in rear seats

1.2 Reference Documents:

- DA 40 Series Airplane Maintenance Manual, Doc. No. 6.02.01, latest effective issue.
- DA 40 Airplane Flight Manual, Doc. No. 6.01.01-E
(Doc. No 6.01.01, German language).

1.3 Remarks:

- a) The work must be carried out by a certified aircraft service station or a certified aircraft maintenance mechanic. In case of doubt, contact Diamond Aircraft.
- b) All works, particular those that are not especially described in this work instruction, have to be carried out in accordance to the referenced maintenance manual.

II. DRAWINGS, SPECIAL TOOLS & MATERIAL

2.1 Drawings:

DA4-2521-00-00 (Rev.I or later)

DA4-2521-00-00-SB1

DA4-2521-13-00 (Rev.I or later)

2.2 Special Tools:


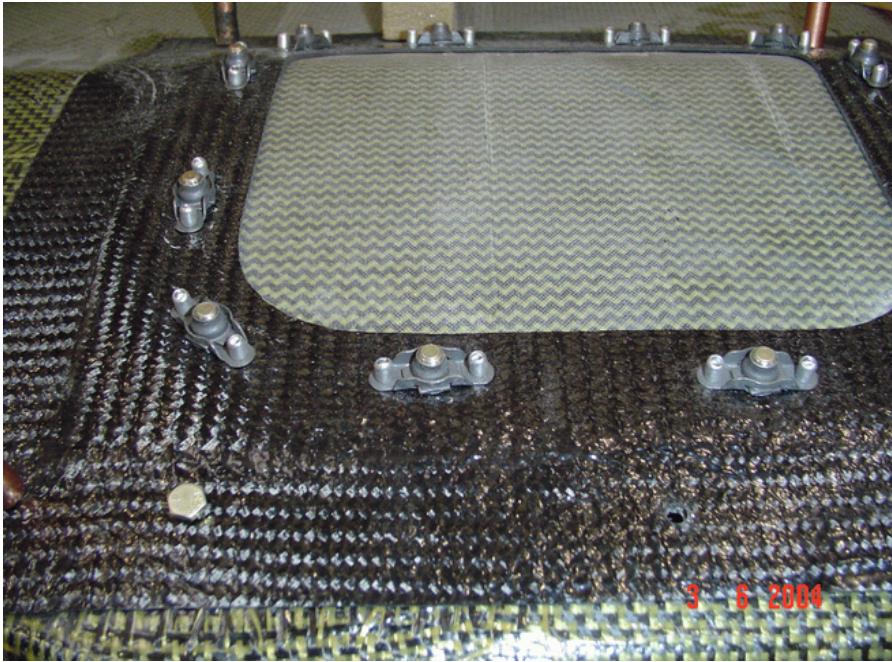
None


2.3 Material:

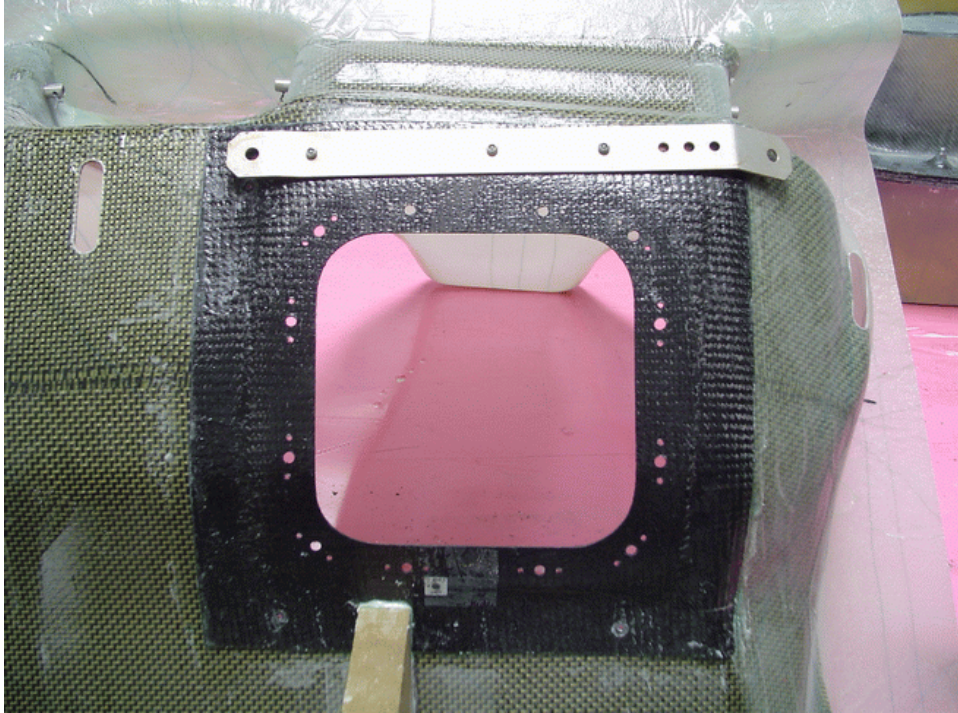
<u>Qty</u>	<u>Description</u>	<u>Part Number</u>
1	TR-MÄM-40-116	n. a.
1	Template cutout	DA4-2521-00-02
1	Cover LH	DA4-2521-00-03
1	Cover RH	DA4-2521-00-04
1	Panel frame LH	DA4-2521-00-05
1	Panel frame RH	DA4-2521-00-06
24	Truss head screw with female hexagon	102459 ISO 7380 M6x16-A2
24	Washer	108965 DIN 125-B6.4-PA
6	Rivet	10 9140

III. INSTRUCTIONS

1	Remove rear seat
2	Remove upholstery foam
3	drill out three rivets (each side) from seat support plates
4	remove seat support rib Caution! Do not damage rear seat fabrics.
5	Cut out template from drawing DA4-2521-00-02 (-)
6	position template on the rear seat, see drawing DA4-2521-00-00 (I)

7	transfer template outline
8	cut out maintenance access holes and support rib gap. 
9	position frame kit concisely at the cutout edge, check for regular gap between cut out hole and access cover. 
10	mark mounting holes of rear seat

11	bore setting holes of the rear seat in the framework.
12	for bonding, remove access cover from framework
13	remove frame kit peel ply
14	check frame kit surface and sand if necessary
15	sand bonding area on rear seat
16	apply resin L20/H91 on bonding area of rear seat
17	apply thickened resin on frame kit
18	position frame kit by means of position holes and screws Caution! Do not tighten the screws and pay attention to even bonding gap: 0.2 mm to 0.5 mm
19	remove the surplus thickened resin from bearing surface.
20	hardening and post curing of bonding in acc. with AMM
21	remove screws
22	remove tape
23	fill out support rib gap with thickened resin 
24	bore seat support plate holes

25	rivet seat support plate 
26	install access covers
27	put on upholstery foam
28	assemble rear seat
29	Clean working area and check for foreign objects
30	install rear seat into airplane
31	Perform functional check of altered and/or repaired and/or new parts.
32	Test all systems in working area for function