

OPTIONAL SERVICE BULLETIN

NO. OSB40-037

&

OPTIONAL SERVICE BULLETIN

NO. OSBD4-040

I. TECHNICAL DETAILS

1.1 Category

Optional.

1.2 Airplanes affected

DA 40: all, if not already installed during production
DA 40 D: all, if not already installed during production
DA 40 F: all, if not already installed during production

1.3 Time of Compliance

At owner's discretion.

1.4 Subject

Installation of the maintenance access holes in front seats.

ATA-Code: 25-00, Equipment and Furnishings

1.5 Reason

The optional installation of the maintenance access holes in front seats for reduced maintenance inspection effort.

1.6 Concurrent documents

None.

1.7 Approval

The information and instructions contained in this document relate to the Design Change Advisory OÄM 40-223 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 Instructios No. WI-OSB40-037 (DA 40 and DA 40 F) or No. WI-OSBD4-040 (DA 40 D) must be complied with.

1.9 Mass (Weight) and CG

Negligible.

II. PLANNING INFORMATION

2.1 Material & Availability

All necessary parts with specific part numbers can be ordered from Diamond Aircraft Industries GmbH, Diamond Aircraft Industries Inc., 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

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

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-40-037
WI-OSB-D4-040

„Maintenance access holes in front seats“

I. GENERAL INFORMATION

1.1 Subject:

The optional installation of the maintenance access holes in front 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:

DA4-2511-00-00SB1

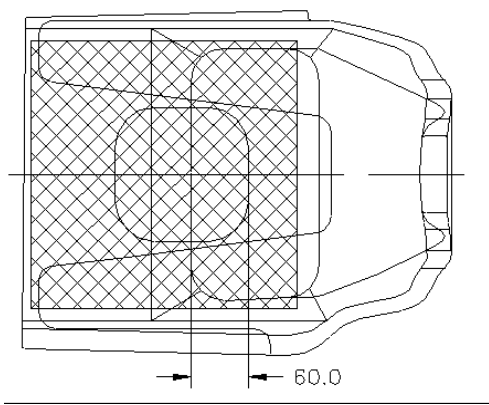
2.2 Special Tools:

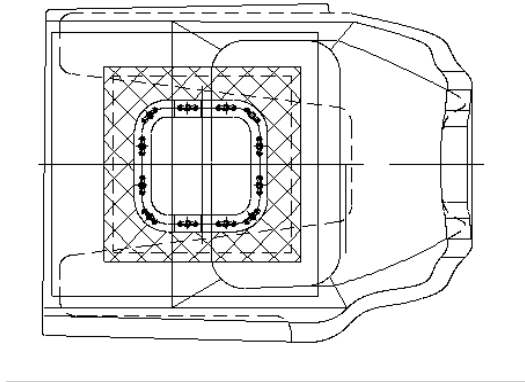
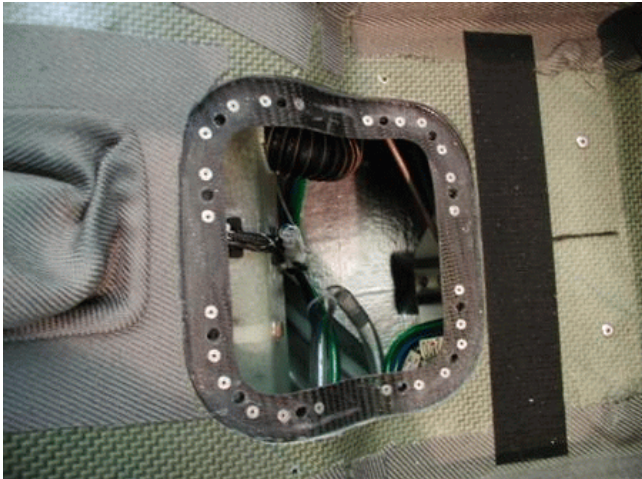
None

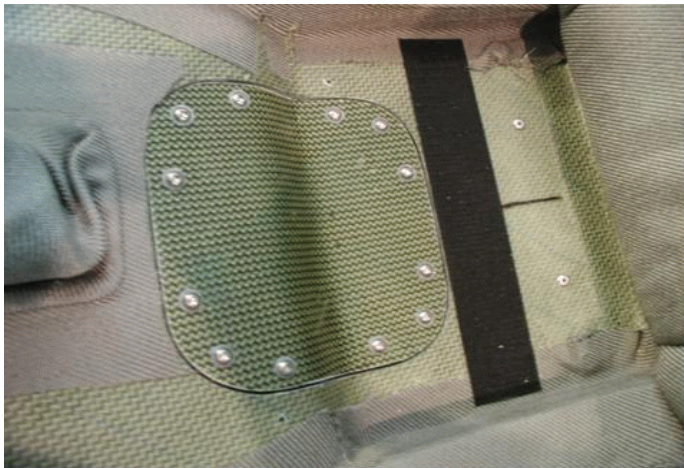
2.3 Material:

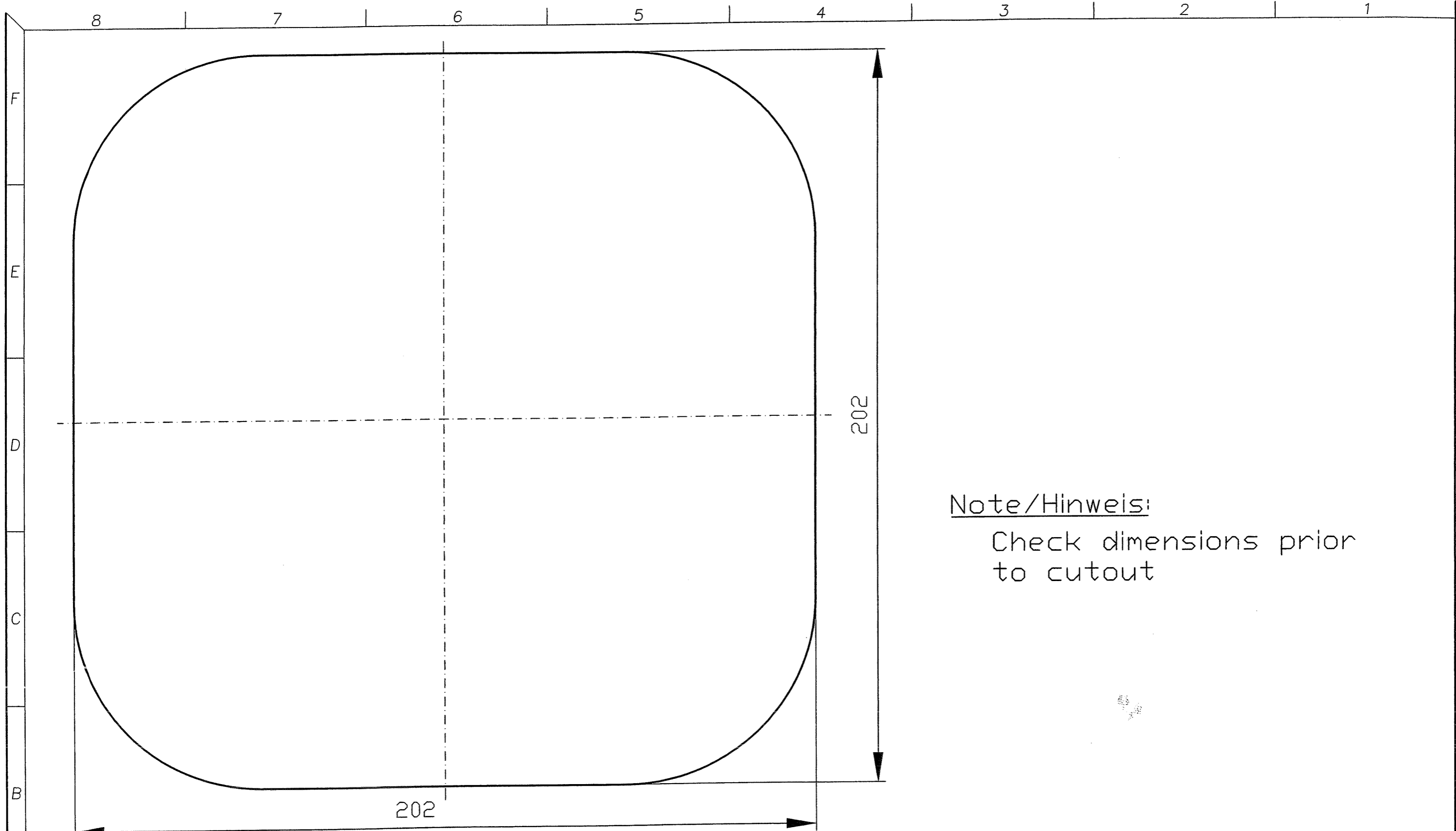
| <u>Qty</u> | <u>Description</u> | <u>Part Number</u> |
|------------|--------------------------------------|-----------------------------|
| 1 | AMM-TR-OÄM-40-223 | n. a. |
| 2 | Cover | DA4-2511-00-01 |
| 1 | Panel frame LH | DA4-2511-00-03 |
| 1 | Panel frame RH | DA4-2512-00-03 |
| 24 | Truss head screw with female hexagon | 102459 ISO 7380 M6x16-A2 |
| 24 | Washer | 108965 DIN 125-B6.4-PA |

III. INSTRUCTIONS

| | |
|--|---|
| 1 | Remove front LH and RH seat |
| 2 | Remove upholstery foam |
| 5 | Cut out template from drawing DA4-2511-00-00SB1 |
| 6 | Position template on the front seat, see Figure 1 |
|  | |
| Figure 1 | |
| 7 | Transfer template outline |
| 8 | Cut out maintenance access holes |

| | |
|----|--|
| 9 | Position frame kit concisely at the cutout edge, check for regular gap between cut out hole and access cover. See Figure 2 |
| |  <p style="text-align: center;">Figure 2</p> |
| 10 | Make index marks on frame kit and front seat |
| 11 | For bonding, remove access cover from framework |
| 12 | Remove frame kit peel ply |
| 13 | Check frame kit surface and sand if necessary |
| 14 | Sand bonding area on rear seat |
| 15 | Apply resin L20/H91 on bonding area of rear seat |
| 16 | Apply thickened resin on frame kit |
| 17 | Position frame kit using alignment marks and clamp in place |
| 18 | Remove the surplus thickened resin from bearing surface. |
| 19 | Hardening and post curing of bonding in acc. with AMM |
| 20 | Remove tape |
| |  |

| | |
|----|--|
| 21 | Install access covers |
| |  |
| 22 | Put on upholstery foam |
| 23 | Assemble front seat |
| 24 | Clean working area and check for foreign objects |
| 25 | Install front seat into airplane |
| 26 | Perform functional check of altered and/or repaired and/or new parts. |
| 27 | Test all systems in working area for function |



Note/Hinweis:

Check dimensions prior to cutout

T. Krassnitzer
[Signature]
 25. MAI 2005

| | | | | | | | | | |
|--|-----------|-------|------|---|--|--|--|----------------|---------|
| DIESE UNTERLAGE IST UNSER GEISTIGES EIGENTUM UND DARF OHNE UNSERE AUSDRUECKLICHE GENEHMIGUNG WEDER VERVIELFACHTET NOCH DRITTEN PERSONEN UEBERLASSEN WERDEN! UEBERTRETUNGEN UNTERLIEGEN DER VERFOLGUNG NACH DEM URHEBERRECHT. DIAMOND AIRCRAFT INDUSTRIES GmbH | | | | Freimass-toleranzen : DIN 7168 m ISO 2768 m OeN M 1365 m | | | Masstab : 1:1 | DAI-Teile Nr.: | |
| | | | | 05 Datum Name Bearb. 20.05 Kremnitzer | | | Benennung : Template / Schablone | | |
| M. Reichel 25. MAI 2005 | | | | Gepr. | | Diamond AIRCRAFT Industries GmbH A-2700 Wiener Neustadt, N. A. Otto-Str. 5 | Zeichnungs Nr.: DA 40 | | Blatt 1 |
| " - " OÄM 40-223 20.05.05 Kre | | | | Nächster Zusammenbau: | | | DA4-2511-00-00SB1 | | 1 BI |
| Zust. | Aenderung | Datum | Name | Technikserver\DA40\2521\DA4-2521-00-00SB1.dwg | | | Ers. fuer : | | |