

# OPTIONAL SERVICE BULLETIN

NO. OSB40-037

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# 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

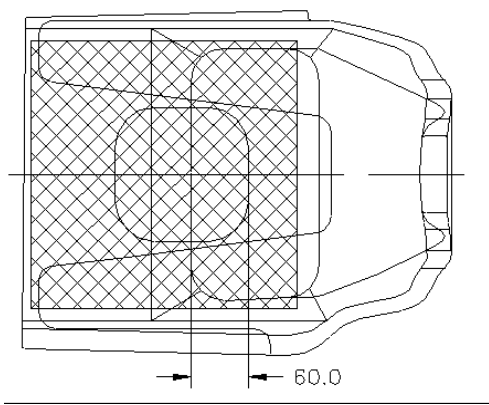
#### **2.2 Special Tools:**

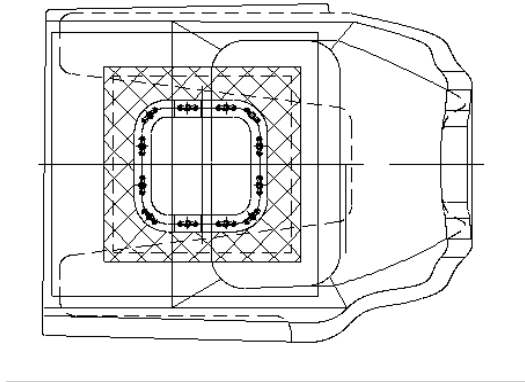
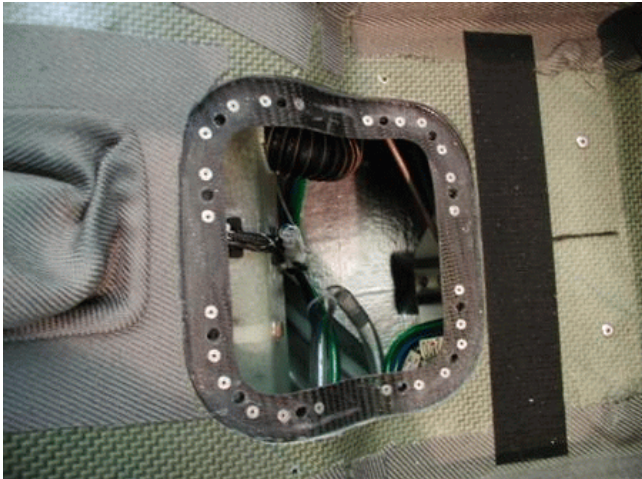
None

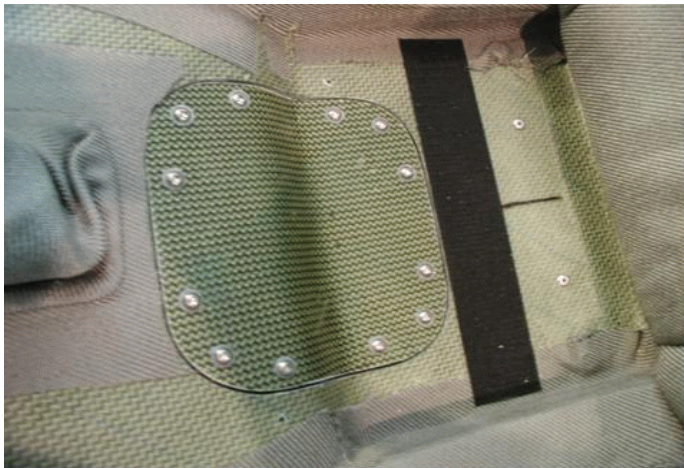
### 2.3 Material:

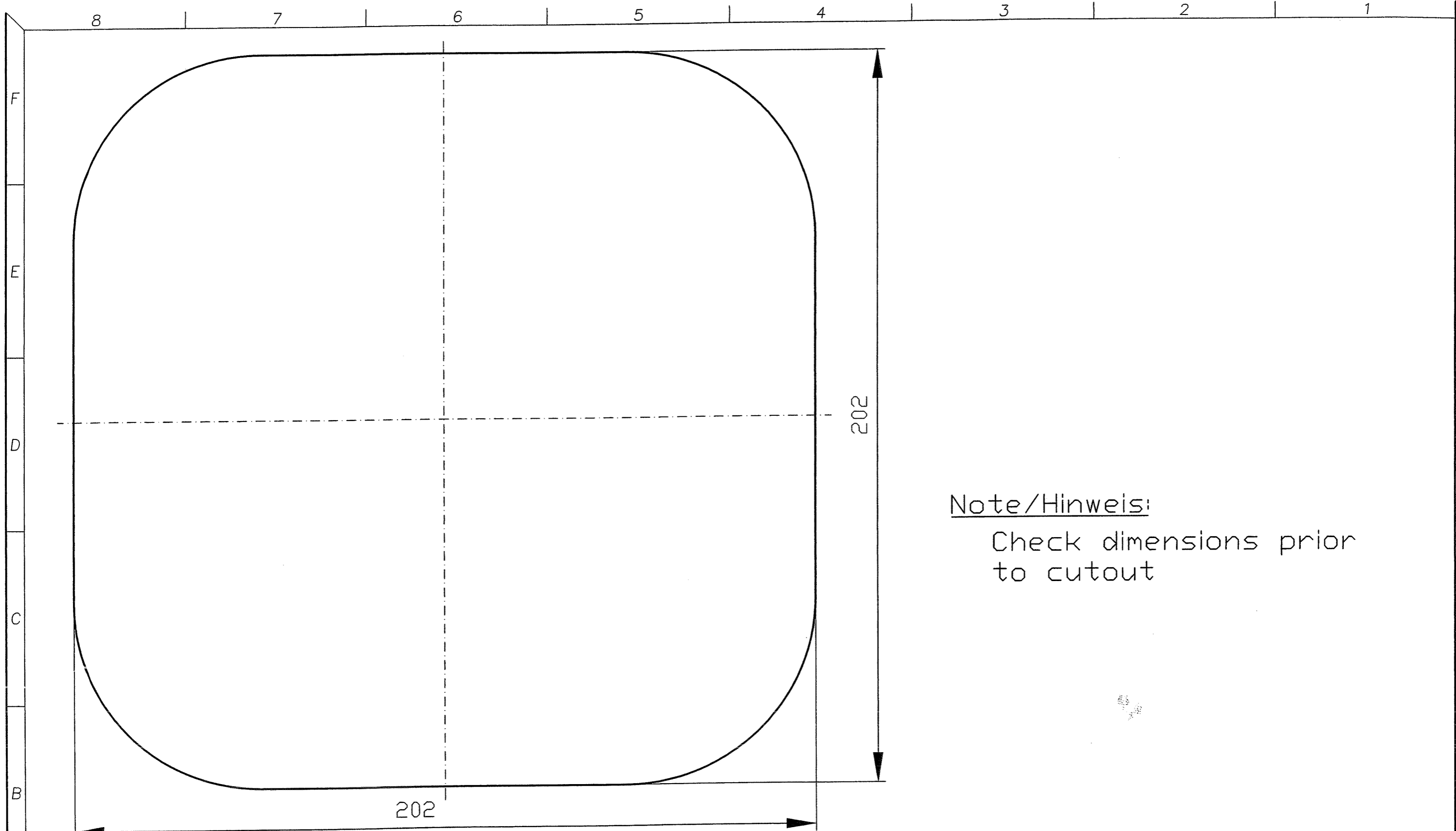
<u>Qty</u>	<u>Description</u>	<u>Part Number</u>
1	AMM-TR-OÄM-40-223	n. a.
2	Cover	DA4-2511-00-01
1	Panel frame LH	DA4-2511-00-03
1	Panel frame RH	DA4-2512-00-03
24	Truss head screw with female hexagon	102459 ISO 7380 M6x16-A2
24	Washer	108965 DIN 125-B6.4-PA

### 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 VERVIELFALTIGT 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 : <b>Template / Schablone</b>		
Gepr.				Nächster Zusammenbau:		<b>Diamond</b> AIRCRAFT Industries GmbH A-2700 Wiener Neustadt, N. A. Otto-Str. 5	Zeichnungs Nr.: <b>DA 40</b>		Blatt 1
" - " OÄM 40-223 20.05.05 Kre		Zust. Aenderung Datum Name		Technikserver\DA40\2521\DA4-2521-00-00SB1.dwg			Ers. fuer :		1 BI