Glaser-Dirks Flugzeugbau GmbH
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Im Schollengarten 19-20
D-76646 Bruchsal-Untergrombach
LBA anerkannter Herstellungsbetrieb IB 25
LBA anerkannter Luftfahrttechnischer Betrieb IIA 279

SUBJECT : Headrest

EFFECTIVITY : DG-300 (Club) ELAN ser.no. 3E 441, from 3E 443 on.
DG-300 (Club) ELAN Acro all serial no's.

ACCOMPLISHMENT : Optional

REASON : To allow very tall pilots to fly without standard backrest (with integrated headrest) a headrest was developed which can be fastened to the fuselage.
The headrest cushion is fastened to the hard part of the headrest with velcro tape so that it can come off in the unlikely case, that the parachute interferes with the headrest during emergency bailout.

INSTRUCTIONS :
1. Installation of the headrest according to working instruction No. 00-94-1.
2. The headrest must always be installed to the glider when the standard backrest with integrated headrest is removed. For rigging and derigging the headrest must be removed.

MATERIAL : See working instructions No. 00-94-1. drawings 8R 76 up to 8R 81

WEIGHT AND BALANCE : Neglible

REMARKS : Instructions No. 1 is to be executed by the manufacturer or by a licensed workshop and to be inspected and entered in the aircraft logs by a licensed inspector.

Bruchsal 4, date
June 24, 1994

Author:

Dipl.-Ing. W. Dirks

Wilhelm Dirks

LBA - approved:
The German original of this TN has been approved by the LBA under the date of Oct.13,94 and is signed by Mr. Fendt. The translation into English has been done by best knowledge and judgement.

Type certification inspector:

Dipl.-Ing. A. Lange Lange

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Installation of the removable headrest

Parts and materials:

designation	quantity	part no.
fittings	1	8R77 (assembly with snap bolts)
	1	8R78
	1	8R79/1
	2	8R79/2
	1	8R79/4
plywoodplate	1	8R80/1 with Velcro
cushion	1	8R80/2 with Velcro
screws	4	M5 x 18 DIN 963
	4	M5 x 20 DIN 933-8.8
washers	4	5.3 DIN 125 st
	1	4.3 DIN 125
clamp handle	1	Kipp 0210501001
sand paper		120 grit
glasscloth	10 x 30 cm	92125
epoxy resin	100 g	MGS L 285
hardener	38 g	MGS H 286

Bruchsal 4 June 24. 1994



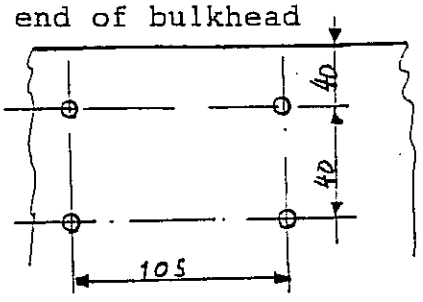
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Installation of the removable headrest

Please refer to drawings 8R76 up to 8R81

1. Drill four holes diameter 5.1mm (.2in.) according to sketch into the back of the main bulkhead according to drawing 8R79



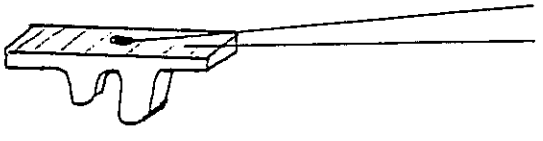
2. Fix a stick to the mounting plate 8R79/1 with a suitable glue. Place the plate with the help of the stick into position (see drawing 8R76). Fix the two brackets 8R79/2 with 4 screws M5 x 20 DIN 933-8.8 and 4 washers 5.3 DIN 125 to plate 8R70/1 via the holes see item 1.

3. Drill two 4mm (.16in,) holes through the main bulkhead and plate 8R79/1. Fix plate to bulkhead with two poprivets 4x10 mm.

4. Take part 8R77 and let its bolts snap into the brackets 8R79/2.

5. Place part 8R79/4 on the upper end of 8R77 and mark its position in the upper fuselage shell. Roughen the glue area for this part according to drawing 8R81 approx. 70mm (3in.) wide. Roughen also the respective glue area of part 8R79/4.

6. Apply a patch of polyester resin and epoxy resin thickened with cotton flocks to part 8R79/4.



Place 8R79/4 on 8R77 again and press it into position until the polyester resin is cured.

7. Fix bracket 8R79/4 with 3 layers of glasfibre fabric type 92125 +-45° 60x60mm (2.4x2.4in.) at its front and rear ends.

8. Fix the holder 8R78 to the plywoodplate 8R80/1 with four screws M5 x 18 DIN 963. Fasten the cushion 8R80/2 with velcro tape to the plate.

9. Insert the headrest assembly see 8. into the holder 8R77 and fix it with the clamp handle type Kipp 0210501001 according to drawing 8R76 detail A.