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LBA anerkannter Herstellungsbetrieb IB 25
LBA anerkannter Luftfahrttechnischer Betrieb IIA 279

SUBJECT : Headrest for rear cockpit

EFFECTIVITY : DG-500 M, DG-500 all models / all serial no's up to 5 E 135

ACCOMPLISHMENT : none, optional

REASON : The headrest which is standard from serial no. 5 E 136 on, can be retrofitted on earlier serial no's.

INSTRUCTIONS : Installation of the headrest according to Installation instruction for TN 843-6/ 348-5.

MATERIAL : Installation instruction for TN 843-6/ 348-5
Retrofit kit see parts list in installation instruction

WEIGHT AND BALANCE : negligible

REMAKRS :
1. It is not permissable to disconnect or to remove the securing cords. With the cords disconnected the headrest can rotate so far forward that it will limit the backward control stick displacement.
2. The installation can be executed by the owner himself.

Caution: Installation of the securing ropes at the lift pin tube must be accomplished according to working instruction No. 1 for TN348/20

Bruchsal 4, date 24.02.94

W. Dirks

Author: W. Dirks

LBA - approved:
The German original of this TN has been approved by the LBA under the date of 09. März 1995 and is signed by Mr. Fendt. The translation into English has been done by best knowledge and jugdement. In any case of doubt the German original is authoritative

D. Lange

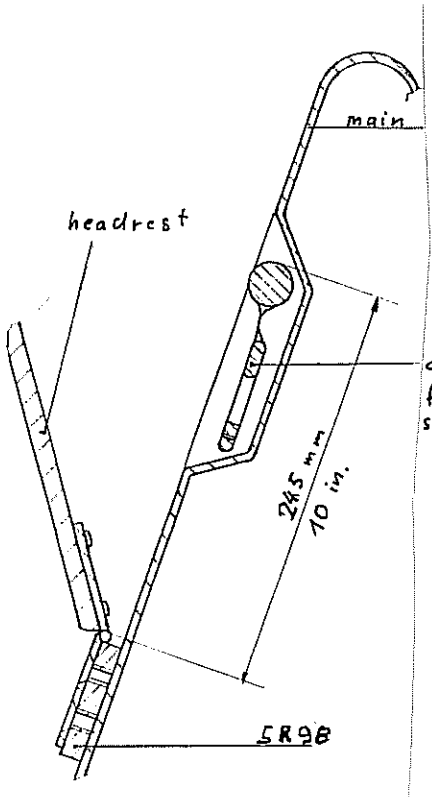
Type certification inspector:

Amended: May 2008

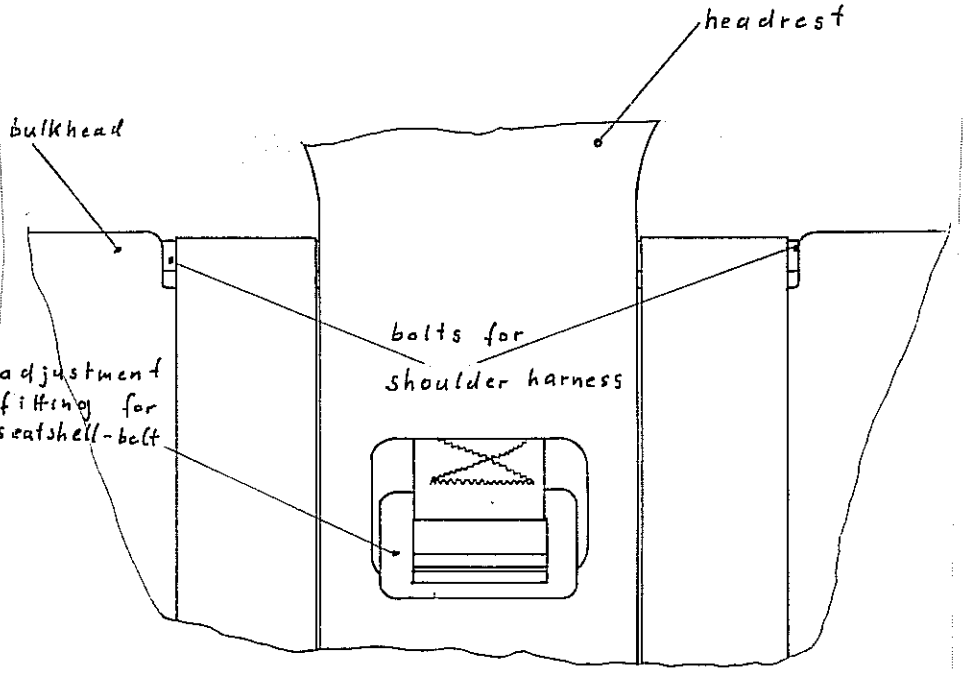
Working instruction for TN 843-6 and 348-5
Installation of a headrest in the rear DG-500 cockpit

Fix the headrest with screws M4*20 DIN 963 to the mounting plate 5R 98.

Sketch 1



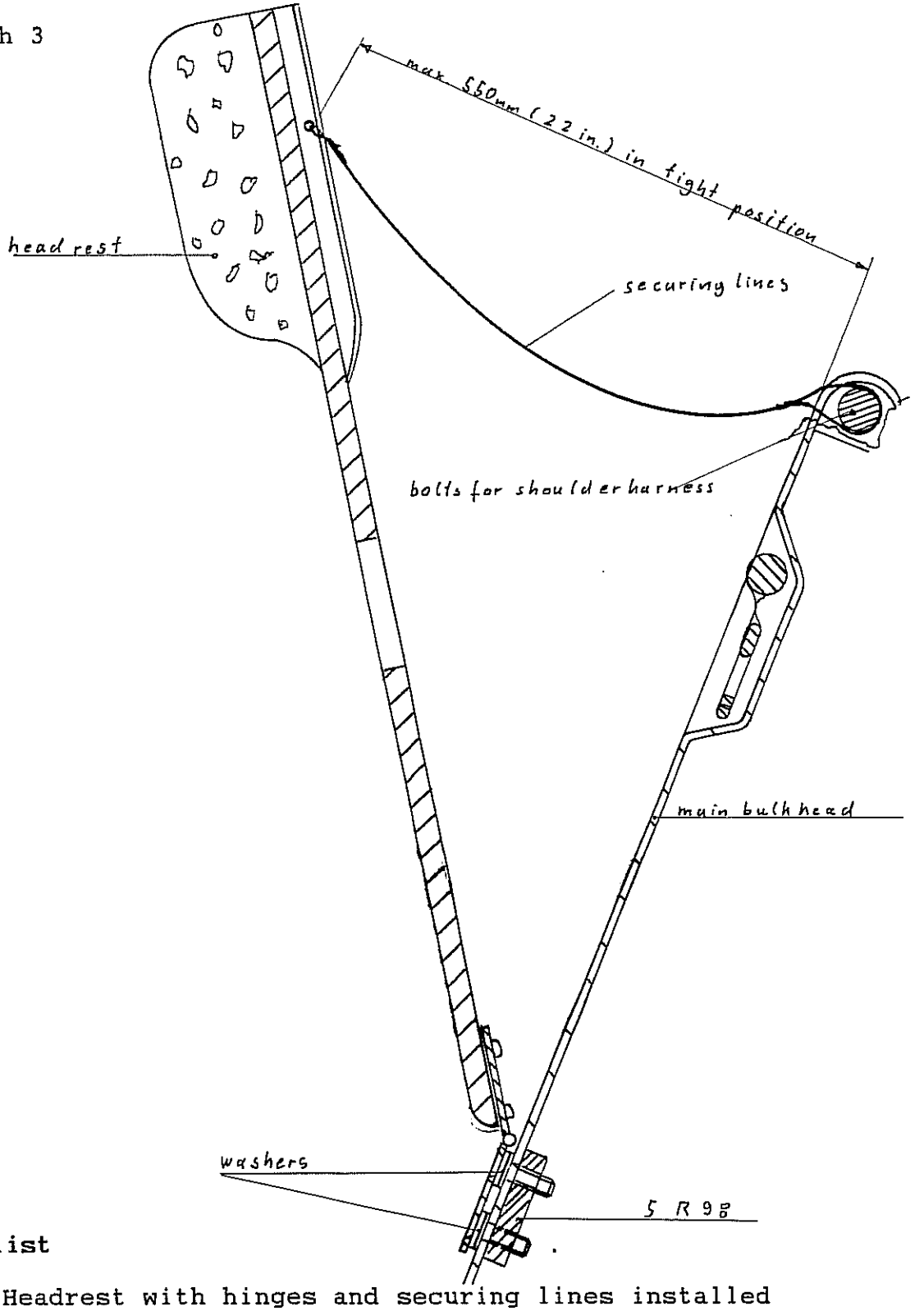
Sketch 2



Place the headrest in the position according to sketch 1. Make sure that the headrest is centered exactly between the two shoulder harness mounting bolts and that the adjustment fitting of the rear seatshell-belt fits through the cutout in the headrest. Mark the position of plate 5R 98 at the bulkhead. Remove the plate from the headrest and fix it with double-sided selfadhesive tape to the bulkhead. Mark all holes which are in the plate at the bulkhead. Remove the plate.
Drill 6 dia. 4.5 mm holes for the hinge screws and two dia. 5.5 mm holes at the outer ends of the plate.
For installation of the plate inside the landing gear box it is favourable to lift the fuselage on the trailer dolly as high as possible. Extend the landing gear and hold the plate inside the gear box while a second person screws in the two screws M5*18 DIN 963 with rosettes at the outer ende of the plate. Secure with Loctite.
Now install the headrest according to sketch 3. Locate at each screw two washers 5.3 DIN 9021 St zn between hinges and bulkhead to prevent the heads of the rivets from beeing pressed against the bulkhead.
Knot the two securing lines to the inner sides of the shoulder harness mounting bolts. Secure the knots with tape.

Working instruction for TN 843-6 and 348-5
Installation of a headrest in the rear cockpit

Sketch 3



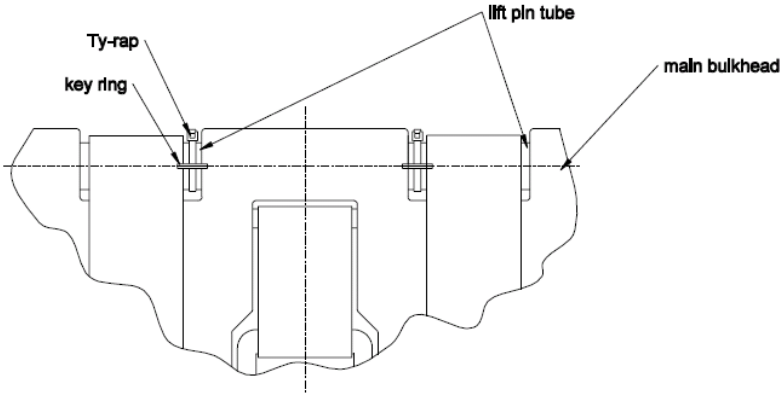
Partlist

1	Headrest with hinges and securing lines installed
6	Screws M4*20 DIN 963 4.8 zn
2	Screws M5*18 DIN 963 4.8 zn
2	Rosettes 13*M5
12	Washers 5.3 DIN 9021 St zn
1	Mounting plate 5R 98

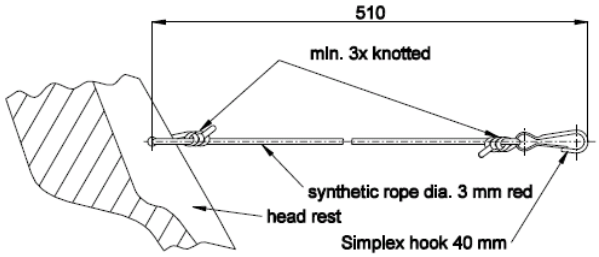
Working instruction No. 1 for TN348/20

Installing the headrest securing ropes in the rear cockpit

1. Remove the old securing ropes.
2. Fix one key ring at a time left and right beside the shoulder harness belts to the lift pin tube with Ty-raps.



3. Installing new securing ropes
   a) Insert one synthetic rope into the holes at the left hand side of the headrest and secure by knotting three times. Fix another rope to the right hand side in the same way.
   b) Knot each synthetic rope into a simplex hook to a length of 510 mm, knot 3 times.



4. Hook the simplex hooks into the key rings.
5. Check: The distance between the holes in the headrest and the lift pin tube has to be min. 500 mm and max. 550 mm when pulled tight.



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Author: Dipl. Ing. Wilhelm Dirks

Material list

part number	quantity	description
60000618	2	key ring DA 16, DI 13
53400401	2	Simplex hook 40 mm
60510952	2	Ty-rap 140x3,6
30091100	2 m	synthetic rope dia. 3 mm red