DG Flugzeugbau GmbH
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Technical Note
No. 873/20

Subject : Parking brake combined with an airbrake securing device (Piggott-hook)

Effectivity : DG-800A, LA, DG-800B

Accomplishment : None, optional (from serial no. 8-219 on standard)

Reason : The Piggott-hook avoids inadvertent deployment of the airbrakes, in case they mistakenly haven't been locked.
The Piggott-hook is combined with a parking brake

Instructions :

1. Installation of parts 8St81/1 and 8St85 according to drawing 8St86.
   a) Loosen the adjustment screw of the wheelbrake cable at the landing gear far enough to enable the airbrake control to be easily pulled to its rear stop.
   In case of an optional disc brake, the brake cable must be disconnected at the airbrake control-coupling shaft. Therefore the baggage compartment floors and back cover must be removed.
   b) Remove the screw connection between pushrod 6St15 and the rod end of pushrod 6St14. Place part 8St81/1 on the fork of 6St15 and reinstall the screwed connection. Use a new selflocking nut and mount the screw from bottom to top.
   c) Assemble the two GFRP plates 20x20mm to the bracket 8St85 and mark the gluing areas in the fuselage. If the bolts interfere with the grey GFRP part which surrounds the tube for the rudder control cable, grind off this part accordingly. Roughen the GFRP plates and the gluing areas at the fuselage and glue in the assembly using epoxy resin thickened with cotton flocks. To facilitate the adjustment fix a 6mm plate with tape to pushrod 6St15 and let the bracket rest on this plate.
   d) Adjust or connect the wheel brake again.

   Note: If a parking brake according to TN 873/14 is already installed, the items a), b) and d) need not to be executed. The rear mounting point of 8St81/2 must be used for 8St86 without changes.
2. Exchange the flight manual pages 0.1 (DG-800) resp. 0.2 (DG-800B), 0.5, 7.5 new issue December 2000, marked with TN 873/20.

Material : Fight manual pages see instruction 2
Drawing 8St86
8St81/1
8St85
2 GFRP plates 20x20x1.5 mm
2 bolts M6x10 DIN7991-8.8zn
2 selflocking nuts M6 SSN03
1 selflocking nut M6 LN9348
epoxy resin see list in repair manual
cottonflocks

Weight and balance : influence negligible

Remarks : Instruction 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, date:
December 18.2000

Author:
Dipl. Ing. Wilhelm Dirks

Type certification inspector:
Dipl. Ing. Swen Lehner

LBA – approved:

The German original of this TN has been approved by the LBA under the date of *Feb. 7. 2001* and is signed by Mr. *Blume*. The translation into English has been done by best knowledge and judgement.

Technical Note No. 873/20 Amendment

Reason :

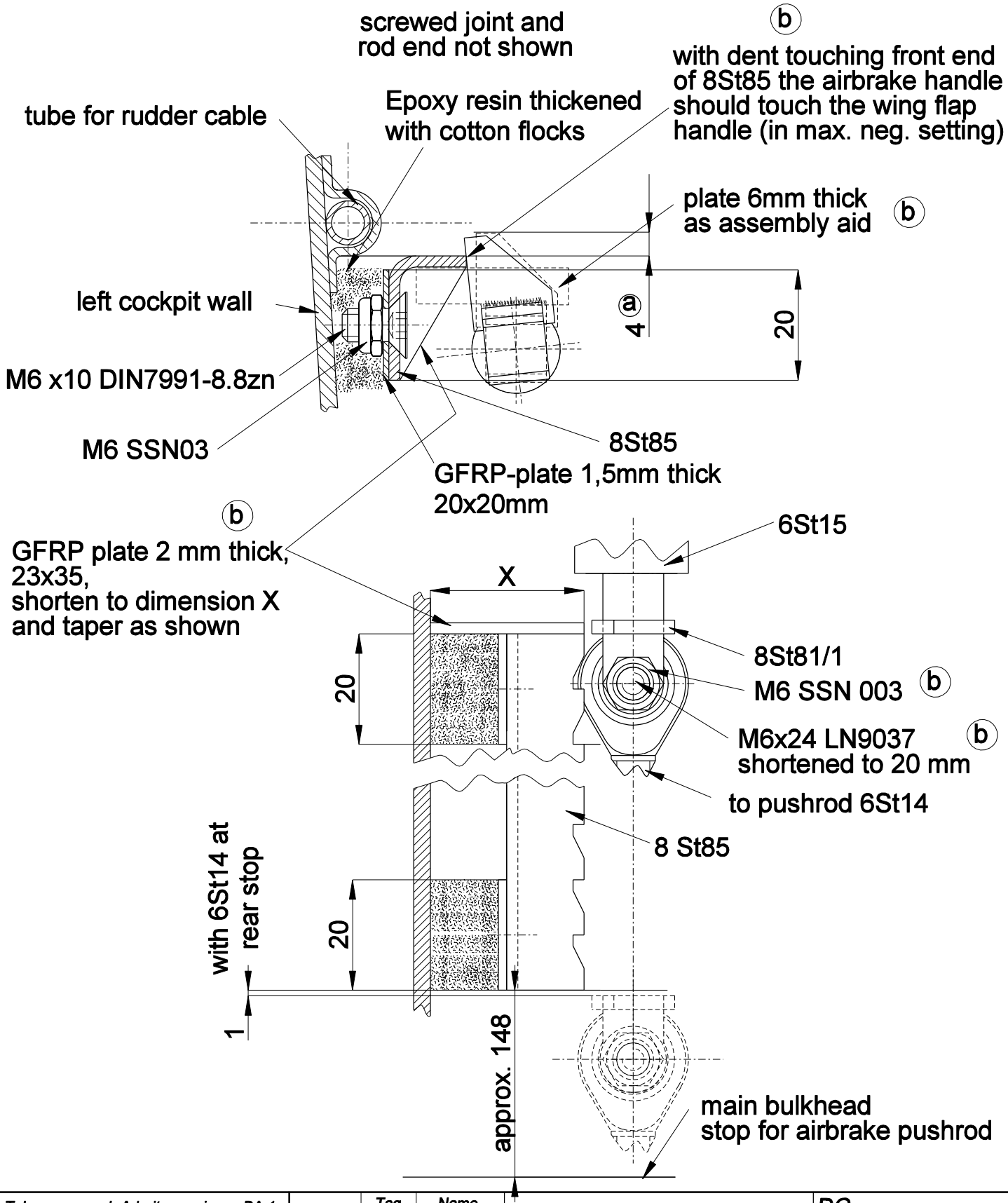
1. The Piggott-hook may slip underneath the notched piece 8St85. To prevent from this a GFRP plate must be installed at the front of the notched piece.
2. The bolt at the fork of pushrod 6St15 may interfere with the notched piece and must be shortened.
3. The distance of the notched piece to the fuselage wall was not defined.

Instructions :

1. When installimg part 8St81/1 8St81/1 to the fork of pushrod 6St15 the existing bolt M6x24 LN9037 must be shortened to 20 mm. Use no washer. Use a flat selflocking nut M6 SSN 003.
2. Adjust the distance of the notched piece to the fuselage wall as follows: with the dent touching the front end of 8St85 the airbrake handle should touch the wing flap handle (in max. neg. setting). The notched piece shall be adjusted in parallel to 6St14.
3. Shorten and taper the 2 mm GFRP plate according to drawing 8St86.
4. When gluing the notched piece 8St85 into the fuselage glue the 2 mm GFRP plate to the front end of the notched piece.
5. After curing rig the glider and check the parking brake function. If the dent doesn't engage completely in the notches loosen the notched piece again and underlay with washers 6,4 DIN9021 St zn at the rear mounting as necessary.
6. When everything is OK remove the notched piece and mount it again with resin thickened with cotton flocks.

Material :

Fight manual pages see instruction 2 of the TN
Drawing 8St86 issue b
8St81/1
8St85
2 GFRP plates 20x20x1.5 mm
1 GFRP plate 23x35x2 mm
2 bolts M6x10 DIN7991-8.8zn
3 selflocking nuts M6 SSN03
Washers 6,4 DIN9021 St zn
Epoxy resin see list in repair manual
Cottonflocks



Toleranzen nach Arbeitsanweisung BA 1				
Schweißen nach Arbeitsanweisung SA 1				
b	GFRP plate added, install. instructions		9.07.12	W.Dirks
a	metal parts mod.		8.11.01	W.Dirks
Ausg.	Änderung	ÄM	Tag	Name

	Tag	Name
Gez.	18.12.00	S. ROURE
Gepr.		
Norm.		

Maßstab 1:1

Maße ohne Toleranz-ang. nach:

Parking brake with airbrake securing (Piggott hook)

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Im Schollengarten 20

8St86