DG-Flugzeugbau GmbH
Im Schollengarten 20
D-76646 Bruchsal

Technical Note
No. 301/18
No. 323/9
No. 826/34

Airbrake torque tube in the fuselage, airbrakes in the wings

Subject: All types and serial numbers: DG-100, DG-200, DG-400

Effectivity: Instructions 1,2 and 5: Prior to next flight
Instruction 3: If necessary prior to next flight

Accomplishment: Instruction 4: If necessary latest until 31.03.97

Reason: Due to free play between bellcrank and airbrake plate the airbrake cap might not flush with the wing surface at the outboard end. If this is corrected by increasing the locking forces the airbrake control system might be overloaded. This can result in failure at the operating lever of the airbrake torque tube in the fuselage.

Instructions:
1: Inspection of the airbrake torque tube in the fuselage according to working instruction no.2 for this TN.
2: Inspection of the airbrakes according to working instructions No. 1 for this TN.
3: Reinforcement of the welded joint between torque tube and lever according to working instructions No. 2 for this TN.
4: Modification of airbrake plates according to working instruction no.1 for this TN.
5: Manual amendments (dated oct. 1996):

DG-100:	„Flight handbook DG-100“, page 2; „Service manual DG-100“, page 23a
DG-100 G:	„Flight handbook DG-100 G“, page 2; „Service manual DG-100 G“, page 23a
DG-200:	„ DG-200 Manual“, page 1 „Maintenance manual DG-200“, page 0, 7c
DG-200/17:	„DG-200/17 Manual“, page 17/1 „Maintenance manual DG-200/17“, page 0, 7c
DG-200/17C:	„DG-200/17C Manual“, page 1 „Maintenance manual DG-200/17C“, page 0, 7c
DG-400:	„Maintenance manual DG-400“, page 0.2, 1, 2, 2a, 26b

Material:
Working instructions No.1 and No.2 for this TN
For instruction 3: If necessary: 1 pcs. Sheet steel 1St12/2, material 1.7734.4
Welding wire material 1.7734.2
For instruction 4: If necessary: 2 pcs. U-bracket 1F12/2
8 pcs. Pop-rivets Fero ∅ 3×6,5 AlMg5, steel pin
2 pcs. Self-locking nuts M6 DIN 985-8 zn
For instruction 5: Manual pages dated oct. 1996, see instruction 5

Weight and Balance: Influence neglibile

Remarks: Instructions No.1, 2, 4, 5 can be executed by the owner or another experienced person. Instruction 3 is to be executed only by a licensed workshop.
Accomplishment of all instructions must be entered into the aircraft logs by a licensed inspector.
Inspections according to instruction 1 and instruction 2 must be accomplished on every annual inspection.

Bruchsal, 04.11.96

LBA-approved:

Author: S. Lehner

Type certification inspector: W. Dirks

The German original of this TN has been approved by the LBA under the date of 11. Nov. 1996
and is signed by Mr. Fendt. The translation into English has been done by best knowledge and judgement. In any case of doubt the German original is authoritative.