

- Subject : Parking brake combined with an airbrake securing device (Piggott-hook)
- Effectivity : DG-500ELAN Trainer, DG-500ELAN Orion
- Accomplishment : None, optional
- 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 : Please refer to MM diagram 3 and drawing 5St116 for parts designations.
1. a) Remove the airbrake handle 5St70.  
b) Send 5St70 to DG for modification to 5St70/2 (welding of the hook)  
c) File off 1mm from the airbrake stop ring 5St82/2 ( riveted to 5St70) at the side pointing to the fuselage wall between upper and lower rivet.  
d) There are already 2 GFRP supports to hold the support plate 5St115/2. Remove the paint from the supports and drill out the bolts which you find in the supports, then drill dia. 9mm holes.  
e) Rivet two M6 rivet nuts into the supports.  
f) Reinstall airbrake handle 5St70/2, use new selflocking nuts.  
g) Install the support plate 5St115/2 (already pre-assembled with notch 5St115/1): If necessary apply washers 6.4DIN 125-St zn between plate and supports so that the hook engages correctly in the notch, see drawing 5St116. Adjust the height via the elongated holes so that both handles (front and rear cockpit are in the best position for the pilot's hand.  
h) Mark the positions of the bolt-heads in the elongated holes at the plate, remove the plate.  
i) Apply resin thickened with cottonflocks to the supports and reassemble the plate (incl. the washers), secure bolts with Loctite 243. Wipe off excessive resin, make sure that the elongated holes are filled with resin.  
j) If necessary install washers 4.3DIN 125-St zn between 5St115/1 and /2, so that the hook engages correctly in the notch, see drawing 5St116. Secure bolts with Loctite 243
  2. Exchange the flight manual pages 0.1, 0.4, 7.5 and add page 7.5a, new issue February 2004, marked with TN 348/16.
- Material : Drawing 5St116  
Notch 5St115/1 preassembled to support plate 5St115/2)  
2 bolts M6x10 DIN7984-8.8zn  
2 rivet nuts M6 steel  
2 selflocking nuts M6 DIN 985-8 zn  
washers 6.4DIN 125-St zn (if necessary)  
washers 4.3DIN 125-St zn (if necessary)  
epoxy resin see list in repair manual  
cottonflocks  
Loctite 243  
Flight manual pages see instruction 2

Weight and balance : influence negligible

Remarks : Instructions No. 1 are 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: LBA – approved:  
February 13. 2004

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The German original of this TN has been approved by the LBA under the date of \_\_\_\_\_ and is signed by Mr. Blume.

**25. FEB. 2004**

The translation into English has been done by best knowledge and judgement.

Type certification  
inspector:  
Dipl. Ing. Swen Lehner



EASA approved on **26. FEB. 2004** under Approval No. 2004-1683