

- Subject : Extension/retraction spindle drive
- Effectivity : DG-500MB, all serial no's up to 5E220B15,  
Ser. no's 5E236B16 and 5E237B17 optional  
From ser. no. 5E241B18 on during production
- Accomplishment : Ser. no's up to 5E220B15: until Dec. 31.2003 latest  
Ser. no's 5E236B16 and 5E237B18: no urgency  
From ser. no. 5E241B18 on: during production
- Reason : The spindle drive Warner LA10 which was installed up to ser. no. B15, failed in some gliders and must, therefore, be replaced by a more reliable spindle drive type Stross BSA 10.  
Due to the higher current consumption of the BSA 10 instruction 5 of TN843/17 must be executed.  
The DEI shall be upgraded to the latest software version 5B9.  
A spindle drive Stross ATL10 was installed to ser. no's B16 and B17 according to the initial issue of TN843/18. It is not mandatory to exchange this spindle drive, however we recommend installation of the BSA 10 as it guarantees faster engine extension- retraction. Instruction 5 of TN843/17 is already installed in these ser. no's.
- Instructions : 1. Installation of the spindle drive Stross BSA 10 and of the voltage converter for the brake of the spindle drive according to drawing 5M210 and 5E218 (amendment to the wiring plan 5E102) and working instruction for TN 843/18 issue 2.  
2. Execute TN843/17 instruction 5.  
3. Check if a sticker with the No. 5B9 is on the front DEI. If not the front DEI must be removed and be sent to DG for the upgrade.  
4. Exchange the following maintenance manual pages against the new pages issued June 2003, marked TN 843/18 issue 2:  
Maintenance manual: 1, 2, 4, 24, 91, diagram 13b, wiring scheme 5E101 issue I, drawing 5E218 (amendment to the wiring plan 5E102)
- Material : Instruction 1: working instruction for TN 843/18 issue 2  
drawing 5M210  
drawing 5E218 (amendment to the wiring plan 5E102)  
spindle drive Stross BSA 10 special version for DG-500MB,  
complete assembly with forks  
voltage converter for BSA 10  
spacer 5M200  
4 × bolt M6×30 DIN912-8.8zn  
1 × nut M12 DIN985-8zn  
1 × bolt M10×58 LN9037  
2 × washer 10,5 DIN125 Stzn  
1 × nut M10 DIN985-8zn  
8 pieces heat shrink tubing DERAY-H-6,5-2,0  
5 pieces ty-raps 186x4,8  
Instruction 2: See TN 843/17 instruction 5.  
Instruction 3: Manual pages see above
- Weight and balance : influence negligible
- Remarks : This issue replaces the initial TN issued 31.07.2002.  
Instructions No. 1 - 2 are to be executed by the manufacturer or by a licensed workshop.  
All instructions have to be inspected and entered in the aircraft logs by a licensed inspector with the next annual inspection.

**DG Flugzeugbau GmbH**  
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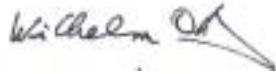
**Technical Note**  
No. 843/18 issue 2

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Bruchsal, date:  
June 25.2003

LBA – approved:

Author:  
Dipl. Ing. Wilhelm Dirks



The German original of this TN has been approved by the LBA under the date of 25/07/2003 and is signed by Mr. Blume. The translation into English has been done by best knowledge and judgement.

Type certification  
inspector:  
Dipl. Ing. Swen Lehner

