DG Flugzeugbau GmbH
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Technical Note
No. 873/16

Subject : Powerplant:, drive belt tension, manual revision

Effectivity : DG-800B with engine SOLO 2625 01

Accomplishment : With the next 25 h service, at latest by Dec. 31. 1999

Reason :
1. The SOLO company has issued the technical note 4600-1 which gives max. values for the drive belt tension.
   As it is not possible to measure the tension directly at the powerplant, we have developed a simple method to determine the tension.
   If the tension is too high it must be lowered.
2. The description of the DEI and generator fuse was faulty and has been corrected

Instructions :
1. Exchange the following manual pages:
   flight manual: 0.1, 0.5, 7.8
   maintenance manual: 1, 2, 3, 4a, 30, 31, 57 and 58 and file drawing W57 to the manual enclosures.
2. Measure the drive belt tension according to section 4.11g) of the DG-800B maintenance manual.
3. If the tension is too high it must be lowered according to section 4.11a). Regard section 4.8 concerning the securing with Loctite. Check if the position of the propeller in relation to the engine compression point is within the limits see section 4.11f).
4. If the drive belt tension had to be reduced, execute a ground test run. Check especially if the position of the propeller in relation to the engine compression point has changed. If this has happened, the drive belt has slipped due to too a low tension. If the tolerances for the tension are not sufficient to prevent a slipping belt, contact the manufacturer.

Material : Manual pages see instruction 1. issued September 1999 TN873/16
Tool W57 (may be produced according to the drawing)
Spring scale min. 100N (10kg)
If the belt tension has to be adjusted:
Two component metal glue (e.g. UHU Plus 300)
Loctite 243
Loctite 18895
Loctite 7063

Weight and balance : No influence

Remarks : Instructions No. 2 - 4 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:
October 25. 1999

Author:
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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 and is signed by Mr. Walter. The translation into English has been done by best knowledge and judgement.