

Subject: Power plant; vibration cracks

Effectivity: DG-400 all serial No's.

Accomplishment: Prior to next take off

Reason: Engine vibrations resulted in vibration cracks at the upper rubber shock mounts and in one case at the rear plate of the propeller mount.

Instructions: 1. Exchange the upper rubber shock mounts (painted black) by parts specially constructed for the Glaser-Dirks factory, which are made from stainless steel (X5 CrNi 18-9). They are not painted for distinction. Use new self locking nuts M6. Torque M 6 1daNm (7,5 ft lb.) M10 4daNm (30 ft lb.)

2. Check the rear plate of the propeller mount (part 4M3) for cracks with a pocket-lens.

3. Check the rear plate not to be mounted with deflection.

Therefore you have to loosen the drive belt (see maintenance manual 4.1.2 page 36) and to dismount the 2 lower mounting bolts where the plate is screwed to the 2 aluminium blocks holding the starter motor.

Be careful not to damage the propeller position sensor while loosening the drive belt.

If there is a gap of more than 1 mm between the aluminium blocks and the plate, the following action is necessary:

Insert washers 10,5 DIN 125 b St and or thinner tolerance washers between the blocks and the plate.

The total thickness of the washers should be the same as the gap with a tolerance of minus 1 mm

(- 0,04 in).

If washers are necessary, longer bolts
M 10 x 25 DIN 912 8.8 zn or DIN 7984 8.8 zn
are to be used.

To secure the bolts use Loctite 72 b (672).

The secured bolts are to be marked with red paint
covering a part of the bolt head together with the
plate. Torque M10 4 daNm (30 ft lb.).

Tension the drive belt again, see maintenance
manual section 4.1.

If necessary adjust the propeller position sensor
by moving it sideways, see maintenance manual
sect. 4.1.13.

Necessary

materials:

A 2 rubber shock mounts form 315 10/VA made from
X 5 Cr Ni 18-9

8 self locking nuts M 6 DIN 985.8 zn or DIN 980.8 zn

B if necessary

2 bolts M 10 x 25 DIN 912 8.8 zn or DIN 7984 8.8 zn

2 washers 10,5 DIN 125 b St zn

2 tolerance washers 10,5 1 mm thick

The above mentioned parts will be supplied by the
Glaser-Dirks factory.

C Loctite 72 b

marking paint for the screwed connections

Remarks:

This instructions may be executed by a licensed work
shop or by a licensed inspector and are to be entered
in the logbooks mentioning TN 826/11.

7520 Bruchsal 4, 29.08.84/ch

