

Subjekt : Coil brace 866 780 connecting charging coil with lighting coil on armature plate ass'y.

Models affected : Motorised glider engine type 535, execution A and B, engine no. V535/1407, 1408, 1428, 1429, 1445, 1497, 1499, 1532, 1552, 1553, 1554 and 3,461.501 to 3,461.507.

Reason : Caused by creep-behavior of the material used for the braces, the screw connection might become loose and thus enables the then unsupported ends of the coils to bend outwards, touching the magnetoring.

Priority, tasks : Check the coil suspension after receipt of this information and then following at intervals of 25 hours running time.

If any connections or parts are noticed to be loose, you must not start engine anymore until remedies are carried out.

Coil brace execution with semi-circular recess (see arrow on illustration) has to be exchanged for a new brace.



Weight and center of gravity : Not affected.

Remarks : Request new coil braces from Rotax or competent dealer.

This kind of engine service has to be carried out by a licensed and qualified person and confirmed in the aircraft logbook.

Gunskirchen, 1985 11 06



Approved by  
Bundesamt für Zivilluftfahrt

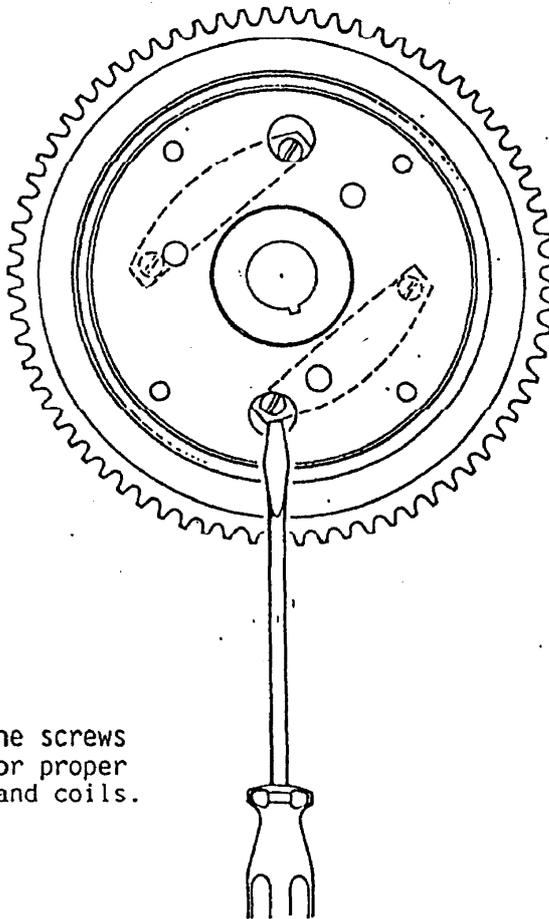
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Checking of the coil braces

- 1) Take off cover washer (fig. 1, see 1,1 on page 3).
- 2) Check with screwdriver as illustrated for proper connections and sit of braces.

Sketch

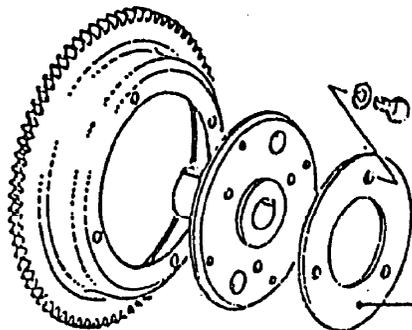


Attention: Tight fit of the screws  
themselves is no warranty for proper  
connection between brace and coils.

Instruction for disassembly and reassembly of magneto flywheel1) Disassembly:

- 1.1. Remove cover washer by unscrewing three bolts with socket spanner, size 13 A/F.
- 1.2. Fasten flywheel fixture (876 080) with three hex. hd. screws M8 x 16.
- 1.3. Remove crankshaft hex. nut M22 x 1,5 with socket spanner, size 30 A/F.
- 1.4. Place protection cap or mushroom-like protector (876 557) to crankshaft end, fasten puller to flywheel fixture and pull off magneto housing. Use suitable spanner, size 22 A/F.

Advice: If need be, break bond of housing to crankshaft taper by carefully heating up to 120°C.

Fig. 1

Cover washer

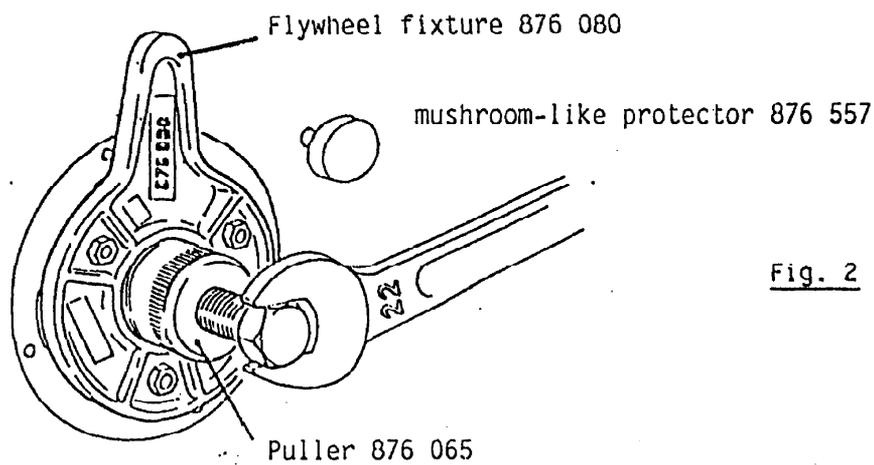


Fig. 2

2) Exchange of coil braces: Fig. 3 on page 5

- 2.1. Clean armature plate ass'y.
- 2.2. Mark armature plate to housing and remove two allen head screws M5. Slightly lift plate and apply Silicon jointing compound to centering and contact plane for vibration damping purpose.  
  
Retighten armature plate. Take care of right position (matching marks!).
- 2.3. Check charging coils for signs of wear, damage on holes and contact faces. Exchange as required.
- 2.4. Remove both screws holding braces in position, carefully withdraw braces to that distance pieces won't drop off.
- 2.5. Exchange braces, apply Loctite 221 to screws and contactfaces and slightly fasten screws.
- 2.6. Repeat proceedings for second brace.
- 2.7. Place centering sleeve (fig. 4 on page 5) over armature plate, push coils outwards and tighten screws.

Attention: Works to 2.5., 2.6. and 2.7. have to be performed within 5 min., prior to curing of Loctite.

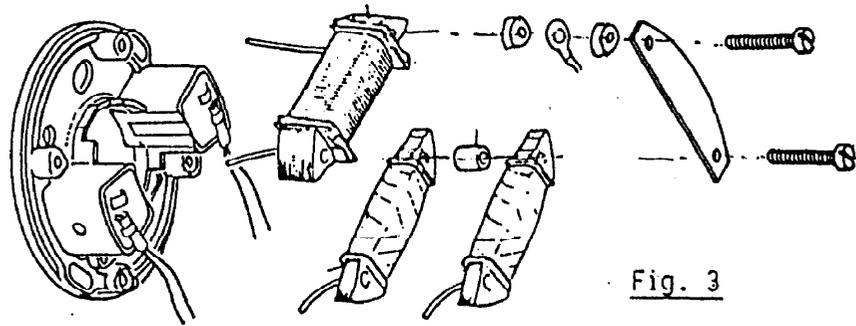


Fig. 3

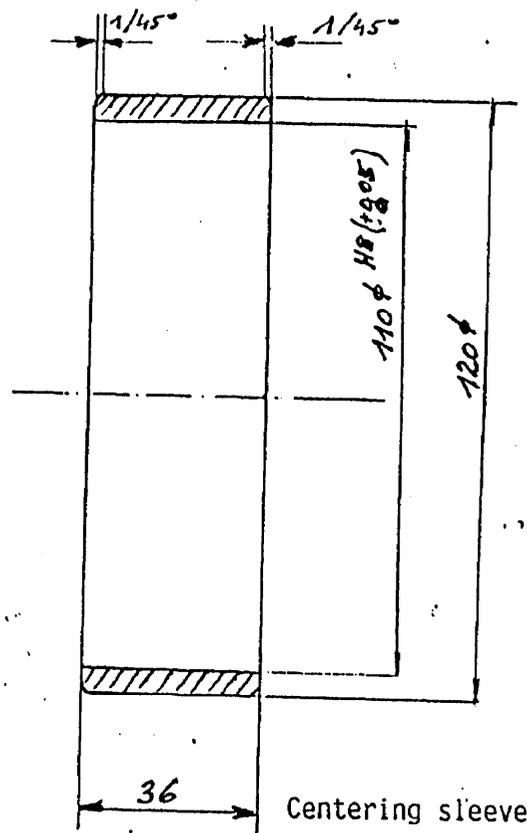


Fig. 4

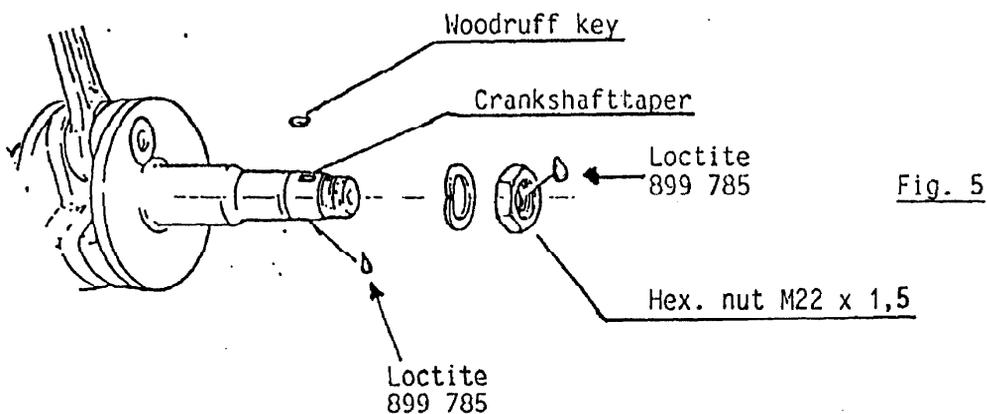
Mat.: Mild steel

### 3) Refitting of magneto flywheel:

- 3.1. Degrease taper of crankshaft and magneto housing with suitable degreasing agent.
- 3.2. Insert woodruff key (fig. 5).
- 3.3. Apply Loctite 221 on crankshaft taper.
- 3.4. Fit flywheel housing complete with magneto ring and starter gear on cranksahft.

IMPORTANT: Make sure that armature plate ass'y and flywheel ass'y is clean and free of foreign matter.

- 3.5. Secure hex. nut M22 x 1,5 with Loctite 221. Tighten with 140 Nm.



- 4) Meet three hours curing time for Loctite, prior to engine start.