Subject: Aileron actuating lever

Effectivity: Powered gliders SF 25 B and SF 25 C "FALKE", all serial numbers

Accomplishment: Before the next flight

Reason: On some powered gliders cracks have accured close to the welded areas between the actuating lever and the aileron spar tube.

Instructions:
1. Demount aileron. Remove fabric in the area of the actuating lever on the lower side of the aileron.
2. Inspect the welded areas by which the actuating lever is welded on the spar tube for cracks by using a magnifying glass of at least 5 x power.
3. Check whether the reinforcement plate (1 mm) is worked round the whole spar tube (conf. figures 1 and 2 of page 3).
4. If cracks are found, or the reinforcement plate (1 mm) is not worked round the whole spar tube, then apply reinforcement according to fig. 3 of page 3. (Material: reinforcement plate 1 mm 25 CrMo 4).
   Before fitting the reinforcement the Frise-ledge should be removed from the areas of the actuating lever (see fig. 4 of page 4).
   The paint is to be removed from the welded areas.
   Weld cracks.
   The reinforcement should be adjusted carefully. Only weld autogenously by using welding rod 18 1 DIN 8994.
5. Then the Frise-ledge can be completed (see fig. 4) and also the fabric and the paintwork.
6. If no cracks are found and if, in addition, the reinforcement plate is fully worked round the tube, complete fabric and painting and mount aileron again.

N.B.: In this case the reinforcement need not be mounted.

Weight and Balance: no influence

Advices:
1. Instructions 1 to 3 to be accomplished by authorized individuals only and to be certificated and entered in the aircraft log book.
2. Instructions 4 and 5 should be accomplished by an aero-technical workshop with an adequate license and certified in the aircraft log book.

Time limits:
1. Instructions 1 to 3 to be accomplished prior to the next flight.
2. If cracks are found instructions 4 and 5 to be accomplished prior to the next flight.

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