Subject: Inspection and, where necessary, replacement of studs in the root rib stud plate

Concerned: GROB G 109B, s/n's 6200 to 6362

Urgency: Not later than 31.12.1990

Procedure: On model G 109B motorgliders a stud plate (109B-4108) is laminated into the root rib. The aileron and airbrake bellcranks are attached to this stud plate. On aircraft up to s/n 6362 the plate utilised studs which, under unfavourable conditions, could separate from the plate. The plate is equipped with 6 studs for reasons of stiffness and hence the failure of a single stud does not present a safety hazard. As a precautionary measure, however, the above mentioned G 109B motorgliders must be inspected and any loose studs replaced.

Action: 1. Inspection of the stud plate
   Remove both wings and check the stud plate in the left and right root rib for loose studs by applying a torque of 3.6 Nm to the nut on each stud.
   If loose studs are found, carry out action 2.

   2. Replacement of loose studs
   2.1 Remove loose studs by pulling them out and, where necessary, increase size of the hole.
   2.2 Replace the studs with suitable hex. head bolts LN 9037 M5x25 or M6x24 or M6x28.

Materials: See action 2

Weight and Balance: Negligible

Remarks: The inspection described in the G 109B Maintenance Manual, page 41e, section 3.14.3 AIR-FRAME, item 7 must include a check for secure attachment of the aileron and airbrake bellcranks on the root rib.
Any concession/production permits issued in the past for this repair are rendered invalid by this Service Bulletin.
On completion, the work must be inspected and signed off in the aircraft log by an authorized inspector.

Mattsies, 06 August 1990

Dipl. Ing. J. Altmann
(Airworthiness engineer Certification staff)

LBA approved
The German original of this service bulletin has been approved by the LBA on the Sept. 1990 and is signed by Mr. .
The translation has been accomplished to our best knowledge and judgement. In case of doubt, the German original is authoritative.
P.S.: If in the meantime you have sold your motorglider, we would ask that you kindly pass this information directly to the new owner and forward his address and aircraft s/n to us.