

GLIDING FEDERATION OF AUSTRALIA

AD 376
(ISSUE 1)

AIRWORTHINESS DIRECTIVE

TYPE AFFECTED: Grob 109B S/Nos 6200 to 6362

SUBJECT: Wing root rib stud plate, inspection for loose studs and replacement if required in accordance with Service Bulletin TM 817-29.

BACKGROUND: A stud plate is laminated into the root rib. There is a possibility that the rib could separate from the stud plate which may result in loose studs.

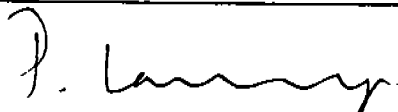
DOCUMENTATION: The Service Bulletin TM 817-29 details inspection requirements and forms a part of AD 376.

ACTION REQUIRED: The inspection should be carried out in accordance with TM 817-29. Any loose studs should be replaced as directed. The inspection should be completed not later than 31.12.90.

This check should be repeated at each Form 2 inspection.

IMPLEMENTATION: The inspection of studs may be completed by the holder of a DA 1109 Inspection Certificate endorsed for FRP. Replacement to be completed by the holder of a DA 1109 endorsed for FRP Major Repairs.

All inspection and rectification actions are to be recorded in the aircraft logbook.

SIGNED: 		For and on behalf of:	
CHIEF TECHNICAL OFFICER AIRWORTHINESS		THE GLIDING FEDERATION OF AUSTRALIA	
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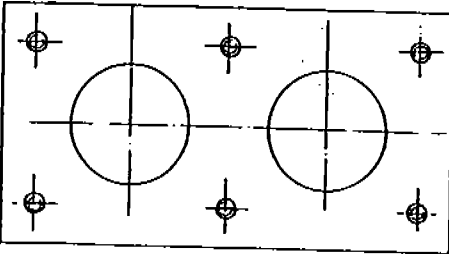
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WEIGHT AND BALANCE: No change

COMPLIANCE: Inspection by 31.12.90

The requirements of this Airworthiness Directive are mandatory. This Directive is issued pursuant to the Australian Civil aviation Regulations under the delegated authority of the Civil Aviation Authority (CE013/89).

Schwammgruppen nach DIN 58111 Teil 1	
Schwammart	1/16
Zusammensetzung	1. 333.6
Verhältnis von den Schwämmen	—
Verfahren	—
Sammlungsgeplän	—
Verfahren	—
Meist herstellend	—



DATE 08/14/2008
TIME 14:00
PAGE 1

VALID UP TO S/N 6362

[illegible]

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.

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-44108) is laminated into the root rib. The alleron and airbrake bellcranks are attached to this stud plate. On aircraft up to s/n 6362 the plate utilized 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 AIRFRAME, 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.

Mattles, 06 August 1990

LBA approved

The German original of this service bulletin has been approved by the LBA on the Sept. 18, 1990 and is signed by Mr. SKD.

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