

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 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:

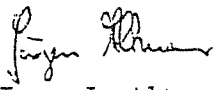
1. Inspection of the stud plate
Remove both wings and check the stud plate in the left and right root rib for loose studs by applying a torque of 3.6 Nm to the nut on each stud.
If loose studs are found, carry out action 2.
2. Replacement of loose studs
 - 2.1 Remove loose studs by pulling them out and,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

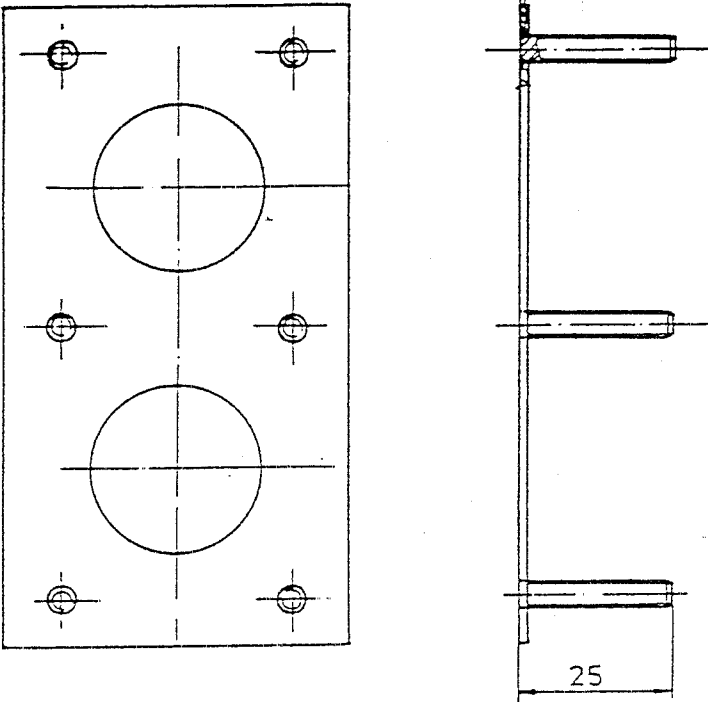
Remarks: The inspection described in the G 109B Maintenance Manual, page 41e, section 3.14.3 AIR-FRAME, item 7 must include a check for secure attachment of the aileron and airbrake bellcranks on the root rib. Any concession/production permits issued in the past for this repair are rendered invalid by 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. 18,* 1990 and is signed by Mr. *SKOV.*
The translation has been accomplished to our best knowledge and judgement. In case of doubt, the German original is authoritative.

Schweißangaben nach DIN 65118 Teil 1		
Schweißverfahren	WIG	Klasse I
Zusatzwerkstoff	1.7734.4	Prüfung
Werkstoff vor dem Schweißen	—	Sichtprüfung
Vorwärmen	—	
Spannungsruglösen	—	Schweißaufsichtsperson
Vergüten	—	21.2.83 Wjg
Mech. Nachbehandlung	—	



Maße ohne Toleranzangaben
DIN 7168
MITTEL

VALID UP TO S/N 6362

2	6	STUD	M5x25 DIN 914 - 8.8	bei Reparaturen: Sechskantschrauben LN 9037 M5x25 oder M6x24 bzw. M6x28			
1	1	PLATE	109B - 4108.01	4			
Lot-Nr.	Stückzahl	Benennung	Such-Nr.	Form-Nr. A	Bemerkungen	Gewicht (berechnet)	
	2 ST./FLGZ.						
			TF 83	Tag	Werkstoff	Überbleibenschaft	Überbleibenschaft
			Datum	22.3.	Wjg.	12,5	GEPRIMERT
			Gepr.				
			Maße				
						STUD PLATE Maßstab: 1:1	
					Zusatzstoffe: 109B - 4108		
					Erstellt für		
					Erstellt durch		

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.