

AIRWORTHINESS DIRECTIVE

TYPE AFFECTED: Club Astir III, Club Astir IIIb and Standard Astir III.

SUBJECT: Inspection and replacement of the rudder pedal slide unit.

BACKGROUND: The slide units on the rudder pedals may fail.

DOCUMENTATION: Grob Technical Bulletin TM 306-22 and Grob Repair Instruction 306-22 which form part of this AD.

ACTION REQUIRED:

1. Before next flight the rudder pedal slide must be inspected in accordance with Instruction 1 of the Grob Technical Bulletin 306-22.
2. At each daily inspection the rudder pedal slide must be inspected in accordance with Instruction 2 of the Grob Technical Bulletin 306-22.
3. Before June 15 1993 the slide mechanism must be replaced in accordance with Instruction 3 of the Grob Technical Bulletin 306-22.

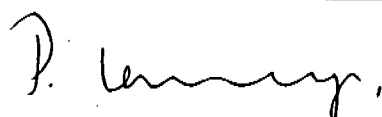
WEIGHT AND BALANCE: Not Affected.

IMPLEMENTATION: Action 1 and 3 must be completed by persons rated "Inspection for Issue of Certificates of Airworthiness" Any type.

Action 2 must be completed by persons rated for "Daily Inspection" FRP.

COMPLIANCE: 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 (CEO42/90).

SIGNED:



CHIEF TECHNICAL OFFICER AIRWORTHINESS

For and on behalf of:

**THE GLIDING FEDERATION
OF AUSTRALIA**

	Technical Information TM 306-22	GROB G 102 CLUB ASTIR III and IIb STANDARD ASTIR III	
Subject:	Inspection and exchange of the slide at the pedal unit.		
Effectivity:	Under GROB G 102 from serial no. 5501 CLUB ASTIR III until serial no. 5569-C, CLUB ASTIR IIb until serial no. 5568-Cb and STANDARD ASTIR III until serial no. 5564-S included.		
Accomplishment:	Instruction 1 before next start. Instruction 2 until realization of instruction 3. Instruction 3 not later than June 15, 1983.		
Reason:	At the pedal unit of the mentioned serial numbers, slides were partially mounted which might break when overloaded.		
Instructions:	<u>Instruction 1:</u> Inspection of the slide at the pedal unit before next start. If the slide no. 103B-4208.10 (picture 1) with the wide, high cross-web is installed, there is no reason for reclamation. Instructions 1 and 2 are not applicable. If the slide no. 103-4208.10 (picture 2) with the small low cross-web is installed, instructions 2 and 3 have to be carried out. <u>Instruction 2:</u> Until realization of instruction 3, the slide at the pedal suspensions has to be inspected for cracks and deformations before each flight and the function of the pedal adjustment and the rudder control has to be checked. If there is any damage, instruction 3 has to be carried out before the next start. Until exchanged, when adjusting the pedals, the locking bar has to be relieved with the least possible power of the heel to the lower tube of the pedals. <u>Instruction 3:</u> The slide no. 103-4208.10 (picture 2) has to be exchanged against slide no. 103B-4208.10 (picture 1) not later than June 15, 1983. The necessary material for this purpose (see below) has to be ordered from the manufacturer with the attached order form and it has to be proceeded according to repair instructions no. 306-22.		
Datum	ersetzt Ausgabe vom	Bearbeitung	Seite

	- 2 -	AD 269	ISSUE: 1	2 April, 1992	Page 2 of 4
Material:		1 hex. head bolt M 4 x 35 LN 9037 1 slide no. 103B-4208.10 with 4 DU-bushes 4 self-locking nuts M6. LN 9348 2 self-locking nuts M5. LN 9348 1 self-locking nut M4. LN 9348 4 cotter pins 2 x 15 LN 94 1 repair instructions no. 306-22. (Only written orders with serial number are accepted)			
Weight and balance:		No influence.			
Remarks:		The proper execution of the instructions has to be certified in the log-book by an authorized individual.			
Mattsies, April 6, 1983		LBA-approved on			
signed Dipl. Ing. H. Wilser		28.4.83			
i.A. <i>Horst Wilser</i>					
P. S. In case you have sold your aircraft meanwhile, we ask you kindly to give this information immediately to the new owner and to let us know his address.					
Datum	ersetzt Ausgabe vom	Bearbeitung	Seite		

The repair instructions belong to instruction 3 of the technical information and include the exchange of slide no. 103-4208.10 in the pedal unit against slide no. 103B-4208.10.

Drawing no. 102C3-4201 "Pedal Unit" is part of these repair instructions.

Material: According to TM 306-22

Tools:

- 1 socket wrench SW 10
- 1 socket wrench SW 8
- 2 fork wrenches SW 17
- 2 fork wrenches SW 7
- 1 hexagon socket screw key (5 mm)
- 1 screwdriver (7 wide)
- 1 flat pliers
- 1 needle nose pliers

Operating Sequence:

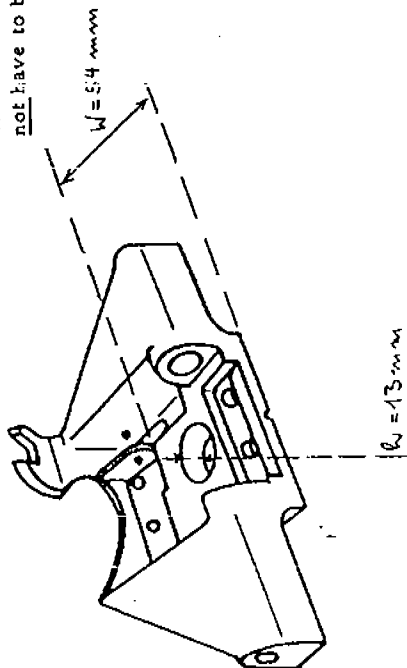
The "consecutive numbers" of drawing no. 102C3-4201 are indicated in parentheses.

1. Take off canopy before starting to work.
2. Take off instrument panel cover by releasing cam lock fasteners.
3. Unscrew right side panel of instrument board.
4. Run pedal slide with the help of the pedal adjustment to the rear-most position (to the instrument panel).
5. Loosen 4 self-locking nuts (48) at the front bracket (1) and the sheet (13) with socket wrench (SW 10).
6. Remove 2 ground wires.
7. Remove front bracket (1), sheets (12 and 14) and guiding rail (15) with pedal slide as far as possible.
Pay attention to releasing of the tension spring (22) with cable (27).
8. Loosen 2 locked nuts (SW 17) on Mefflex-control (33) with fork wrench.
9. Open snap at the fork (34) of the Mefflex-control (33) and unhinge at the locking bar (19).

Picture 1 :

Slide no. 103B - 4208.10

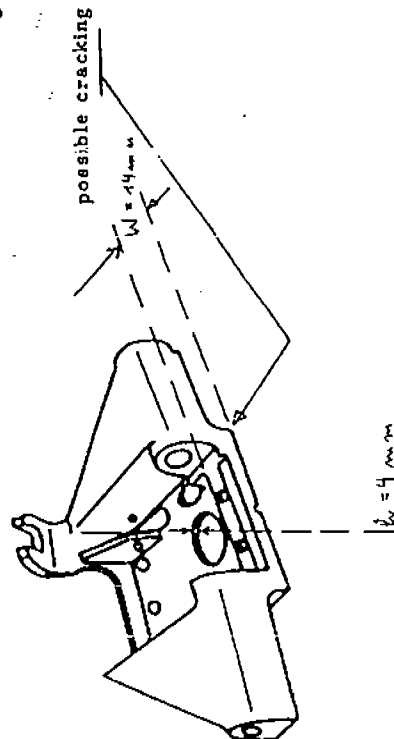
This slide with wide, high cross-web is safe and does not have to be exchanged.



Picture 2 :

Slide no. 103 - 4208.10

This slide with small, low cross-web is rejected and has to be exchanged.



26. Mount 2 guidances (16) and 2 sheets (17) with screws (44 and 45) in the designated position at the new slide (18). Use in front washers (51) and new self-locking nuts (49).
27. Push slide (18) on guiding rail (15). The boxes in the guiding rail (15) for the locking bar (19) are positioned in flight direction on the right. (If the guiding rail (15) has deep scratches on the sliding surface, this should be polished before mounting).
28. Put Meflex-control (33) on slide (18).
29. Lock 2 nuts (SW 17) of Meflex-control (33) against slide (18).
30. Suspend fork (34) of Meflex-control (33) on locking bar (19) and secure with snap.
31. Mount guiding rail (15) with pedal slide, front bracket (1), sheets (12 and 13) as well as 2 ground wires on 4 set-screws according to drawing.
32. Attach 4 washers (50), count and hand-tighten 4 new self-locking nuts (48) so that setscrews do not break off.
33. Check function of pedal adjustment.
34. Fasten with screws right side panel of the instrument board.
35. Attach instrument panel cover with cam lock fasteners.
36. Mount canopy.
37. Check clearance and function of the rudder control.
38. Have proper execution of the instructions by a competent person certified in the log-book by an authorized individual.

Matties, April 6, 1983

signed I.A. Dipl.Ing. H. Willser

10. Remove Meflex-control (33) from slide (18). Control remains in the aircraft.
11. Unlock and push slide (18) out of guiding rail (15).
Attention: Before demounting, mark the 2 guidances (16) and the 2 sheets (17) so that they can be mounted in the new slide in exactly the same position.
12. Loosen 2 guidances (16) and 2 sheets (17) in front and at the rear by opening screws (44 and 45). Hold front self-locking nuts (49) with socket wrench (SW 8).
Note: At some executions, guidance (16) and sheet (17) consist of only one part.
13. Unhinge cable (27) with stop-sleeve (31) at the slide. Cable with tube (28) and spring (22) remains in the aircraft.
14. Unhinge 2 tension springs (25) at the slide (18).
15. Remove 2 inner cotter pins (54) from the mounting bolts (21) of the pedals (2 and 3).
16. Pull 2 mounting bolts (21) out of the slide (18), after having noted the arrangement of the plain washer for remounting.
17. Remove 2 pedals (2 and 3). Pedals remain at the control cable with bracket (1) in the aircraft.
18. Remove old slide (18) no. 103-4208.10 from the aircraft.
19. Rebuild locking bar (19) with torsion spring (23) and bearing application (20, 39, 47, 52) from old slide to the new one. Use new self-locking nut (47) and new hex. head screw (19) M4 x 35.
Comment: If the shank of the torsion-spring does not lie close to the front wall of the slide, it can be bent carefully with a roundnosed pliers, so that it is close to the wall again.
20. Mount new slide (18) no. 103B-4208.10 in reverse order in the aircraft and proceed according to drawing no. 102C3-4201.
21. Arrange 2 pedals (2 and 3) at the slide (18). Pay attention to the correct position of control cables.
22. Push 2 mounting bolts (21) with washers in correct order (cf. point 16) in pedals (2 and 3) and slide (18).
23. Mount 2 new cotter pins (54) inside at the mounting bolt (21) and bend them duly.
24. Suspend 2 tension springs (25) of pedals (2 and 3) at the slide (18).
25. Suspend cable (27) with stop-sleeve (31) at slide (18).