

Technical Information TM 315-13

GROB G 103 "II NIWT GROB G 103A TWIN II ACRO"

Subject:

Exchange of the trimm-tube in the elevator.

Effectivity:

Glider aeroplane GROB G 103 "TWIN II" and GROB G 103A "TWIN II ACRO" of the following

serial-numbers:

Serial-N° 3510, 3511 und 3515, from n° 3517 to 3529 and from n° 3531 to 3554,

 n° 3558, 3561, 3564, 3570 and 3571, and from n° 3574 to 3577 and n° 3605 included

Accomplishment:

Latest date of action to be taken:

31.03.1981

Reason:

This action should be taken, because the trimm-tube of the mentionned gliders has an incorrect welding seam. It is possible that this incorrect seam breaks after a longer operation.

Instructions:

This exchange should be taken in accordance to the repair instructions of TM 315-13.

Material:

1 trimm-tube n° 103B-4354 with fork-end

and screw (M5)

1 tube \emptyset 5 x 0,5 (11 mm long)

1 tube \emptyset 5 x 0,5 (8 mm long)

2 screws M4 (LN 9348)

4 strech-pins 2 x 10 DIN 1481

The material can be obtained by the

manufacturer.

Weight and balance: No influence

Remarks:

The correct action has to be certified by an authorized inspector (Prüfer Klasse 3)

in the log book.

Mattsies, 12.01.1981

Signed: i.A. Dipl. Ing. H. Wilser LBA-approved: ZZ.4.81

P.S. Provided your a/c is sold in the meantime, you are kindly requested to send this bulletin to the new owner as soon as possible and to inform us about this adress.

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22, Jan. 1981



The repair-instruction belongs to the Technical notice TM 315-13

GROB G 103
"TWIN II"
GROB G 103A
"TWIN II ACRO"

The repair-instruction belongs to the Technical notice TM 315-13 which deals with exchanging the horizontal tail assembly trim rod.

The necessary material should be made available in accordance with TM 315-13. Also the following tools will be needed:

- 2 Spanners size 7 mm
- 1 Ringspanner size 8 mm
- 1 small Hammer
- 1 Punch size Ø 2
- 1 Drill size \emptyset 5
- 1 medium size screw driver

The following working sequences have been so arranged as to coinside with the accompaning sketch.

- Remove horizontal tail assembly from aircraft. It is preferable to position assembly with the leading edge downwards.
- 2. Remove tape from between trim tab and elevator.
- 3. Move elevator upwards to full deflected position allowing the gap between elevator and tail assembly to open.
- 4. With a 7 mm spanner loosen the screw connection (m 4) between the Trim-shaft (Nr. 6) and Trim-rod (Nr. 4).
- 5. Knock out carefully spacer tube (Nr. 10) if necessary bend the fork open (Nr. 14).
- 6. Carefully knock the stretch pins (Nr. 40) out of the 3 rudder-trim-bearings using a Ø 2 punch and a small hammer. Avoid hard blows, otherwise there exists the danger of knocking the bearing out of the Fiberglass structure.
- 7. Mark the hinge bolts to indicate the position from which they were removed (Nr. 39).
- 8. Slide the hinge bolts (Nr. 39) back and remove the trim tab.
- 9. With two 7 mm spanners loosen the screw-connection between trim-rod (Nr. 4) and trim-tab (m4).

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The repair-instruction belongs to teh Technical notice TM 315-13

GROB G 103 "TWIN II" GROB G 103A "TWIN II ACRO"

10. It is necessary to adjust and secure new trim-rod and fork (Nr. 14) with hexagonal nut (Nr. 15) exactly to the length of the old trim-rod and fork using 8 mm ring spanner, this is in order to maintain the previously adjusted trim position.

Caution: Measurements should be taken from center hole to center hole, due to the fact that the hole in the old fork was \emptyset 4 and the new one is \emptyset 5.

- 11. The hole in the trim-tabs moving plate Nr. 5 should be drilled to 5 mm.
- 12. Connect new trim-rod (Nr. 4) on to the trim-tab using m4 x 16 screws and a 7 mm spanner. New spacer tube Ø 5 x 0,5 (8 mm long) (Nr. 11), 2 washers and a new lock nut m4.
- 13. Place trim-tab in position inserting hinge bolts in their original location (Nr. 39) as in paragraph 7. Secure all 3 bearings with new stretch-pins (Nr. 40), stretch pins as in paragraph 6 should be carefully knocked into place.
- 14. Connect trim-rod (Nr. 4) to trim-shaft (Nr. 6) using screw m4 x 16 , 7 mm spanner, a new spacer tube Ø 5 x0,5 (11 mm long) (Nr. 10), washer and lock unit m4.
- 15. Elevator gap between trim-tab and elevator should be covered with textile tape.
- 16. Check all parts for freedom of movement.
- 17. Replace the horizontal-tail-assembly on the aircraft and carry out a functional check on the trim system.
- 18. To be carried out and certified in accordance with TM 315-13.

Mattsies, 12.01.1981

Dipl. Ing. H. Wilser

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