



Modification Bulletin

Reference <u>A/C Saab Safir 91A, 91B, 91B-2, 91C and 91D</u> Improved fastening of the rudder trim-weight.	Date 3.4.70 Saab Service Dept. <i>GF</i> G Funquist Saab Design. Dept. <i>Su</i> S Lundgren	No. 91.3/5
Urgency Class II, within 50 flyinghours	Royal Swedish Board of Civil Aviation for G Antvik <i>AB</i>	

Marking Cross out the modification figure 0 of the rudder identification plate	Effect on weight distribution		
	Weight change Lbs	Station In.	Moment change LbsIn.
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Time of delivery for necessary parts

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Reason

One case of rudder locking due to loose trimweight has occurred.

In order to prevent further incidences the trimweight attachments shall be reinforced.

Drwg Saab 1162025 (Appendix 2)

Material

Unit Rudder 913500, 913502, 913503, 913503-2

Working procedure

- 1 Dismount the rudder
- 2 Check the distance between the bottom rib at STA 124 (appendix 2) and the two attachment screws of the trimweight. Measuring is carried out through the opening in the bottom rib.
- 3 Mark the position of the new screws on the leading edge of the rudder in such a way that the screws will be positioned approx. 20 mm (7/8") above the existing screws.
- 4 Alternative 1 (facing cutter required)

 Holes for the facing cutter shaft have to be drilled perpendicular to the rudder leading edge through the skin 507106, balance weight 507116 and trim weight 540155. (Appendix 1). The trim weight rear surface has to be milled for washer AS 215101-8,1.
 The dimension of the holes is increased to 8,3 mm by drilling.



Alternative 2

Drill holes (center drill if required) 8,3 mm perpendicular to the leading edge of the rudder through the skin 507106, balance weight 507116 and trimweight 540155.

Unscrew the two attachment screws (M4) of the trimweight and remove it through the opening in the bottom rib at STA 124.

Shape the trimweight so that a plain contact surface for washer AS 215101-8,1 is obtained perpendicular to the hole.

5 Countersink 100° in the balance weight 507116 in the leading edge of the rudder for AS 212124-M8. (Appendix 2).

6 Alternative 1

Put the two M8 screws, washers and elastic stop nuts in position and tighten.

Alternative 2

Install the trimweight with the above mentioned screws, washers and nuts,

7 Repair the fabric covering of the rudder leading edge.

8 Cross out the modification figure 0 of the rudder identification plate.

9 Reinstall the rudder and connect control devices.
Check rudder control function.

Material required

<u>Parts per unit</u>		<u>No of</u>
Screw	AS 212124-M8x34	1
Screw	AS 212124-M8x40	1
Washer	AS 215101-8,1	2
Nut	AS 215402-M8	2



SIDRODER

RUDDER

Bil 1
App 1



