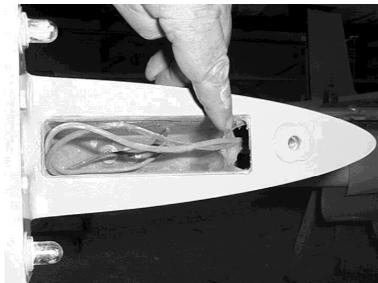
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Page 1 of 3		ASW 27 Technical Note No. 5	Alexander Schleicher GmbH & Co. Segelflugzeugbau D - 36163 Poppenhausen
Subject:	Check of control circuit clearance inside the fuselage tail boom to fin intersection.		
Serial number applicability:	All ASW 27, Document No. 04 - 389, Serial Numbers 27002 through 27 104 .		
Compliance:	Until October 31 st , 1999.		
Reason:	An ASW 27 owner in Sweden reported light jamming in one flight and abandoned the take-off. Rubbing of the 90° lever with its attached mass balance lead weights and connecting bolt against the cut-out of the lower fin rib has been determined as the only likely cause.		
Action:	 De-rig the horizontal tailplane, look through fin ballast box as shown in Fig. 1A ar check the clearance left and right of the mass balance weights, see Fig. 1B. A strong light which is held to the outside of the fuselage to fin intersection close to th critical area improves the visibility remarkably. NOTE: The critical situation is reached, when the elevator actuator is fully down. When the clearance (including bolt head and nut or bolt end) is about symmetric ar 2,5 mm (1/10 inch) wide, no further action is needed. When the clearance is insufficient, the situation can be remarkably improved by rota ing the 90° lever forward and downward. To accomplish that, the bolt at the elevator a tuator must be removed and the universal joint must be turned into the push rod so that gets shorter, see Fig. 2. To compensate the adjustment in length, the push rod at the le hand side of the cockpit must also be shortened by the same number of threads. To g to the push rod are not sufficient to get enough clearance at the lever, the front pust rod may be shortened by an authorised welder for aircraft components. 		
and be adjust Now the adju		action according to 2) was necessary, the elevator deflections must be checked adjusted within the tolerances given in the Maintenance Manual, page 3.2. adjusted control components must be safetied and checked (see also the other areas marked in Fig. 3 and 4 and reinstall the seat pan.	
Notes:	himse When tion ap Action	Action according to 1) can be done by the owner himself and has to be documented by himself in the sailplane's log book. When action according to points 2) and 3) is needed, a competent person or a repair station approved for such work should be consulted. Action according to 2) and 3) has to be documented by an inspector authorised for such work in the sailplane's log book and the records of inspections.	
Poppenhausen, 16 July 1999		Alexander Schleicher GmbH & Co.	
		by order (Gerl	hard Waibel)
The German origin (signed by Mr. Jun		Technical Note has been approved by the LBA unde	er the date of July 22, 1999
The translation into English has been done by best knowledge and judgement; in any case of doubt the Ger- man original is controlling.			

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<u>Fig. 1A</u>



<u>Fig. 1B</u>

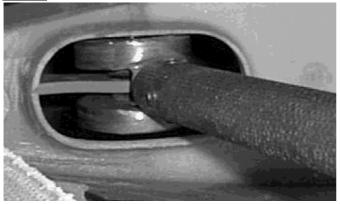


Fig. 2

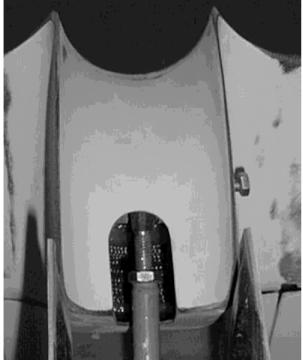
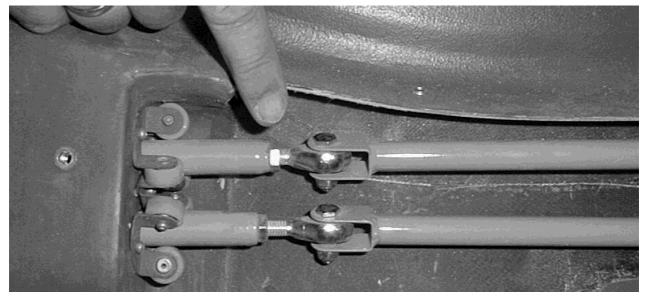


Fig. 3



<u>Fig. 4</u>

