

Sheet 1
Number of sheets : 2

ASW 19
Technical Note
No. 12

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Kind : Improvement.

Subject : Modification of aileron and elevator hinge fittings (control surface side).

Effectivity : All new production-line ASW 19s.

Accomplishment : None; only for new production-line glider ASW 19s.

Reason : The so far used control hinges show relatively great amounts of epoxy glue around the hinge fittings which increase the tailheavy moment of the controls. The masses of glue had to be compensated by massbalance in the nose of the control surfaces.

The new fittings according to this TN 12 are designed such that the fitting is enclosed in the glue of the nose of the control surfaces. So the assembly is less or even not tailheavy.

Instructions : According to the drawings
190.31.0004
190.35.0013
190.35.0014
the new control fittings are made and then installed according to the drawings
190.35.S.1
190.31/32.S.1 .
The design of the actuating fittings of aileron and elevator is unchanged.

Material : See drawings.

Weight and Balance : Control surfaces made according to this TN 12 must be checked for weight and tailheavy moment. It is likely that they are closer to the low side of the tolerances than older control surfaces. For the weighing procedure see pages 29 + 34 in the ASW 19 Manual and pages 34 + 35 in the ASW 19 B Manual.

Notes :

1. This TN is effected in series production as of S/N 19 271.
2. For repairs of ASW 19s, S/N 19 001 thru 19 270, control surfaces built according to this TN may be used.

Drawings :

For this TN the following drawings were corrected :
190.35.S.1 and 190.31/32.S.1 .

The following drawings were new made :

190.31.0004
190.35.0013
190.35.0014 .

The following drawings are no longer applicable :

190.31.0003
190.35.0002
190.35.0003 .

Poppenhausen, November 20, 1978

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The German original of this TN is approved by LBA under the date of January 31, 1979, and is signed by FRIES.

In any case of doubt the German text is authoritative.