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ASW 20
Technical Note
No. 7

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Kind: Improvement.

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

Effectivity : All new production-line ASW 20 and ASW 20 L.

Accomplishment : None; only for new production-line gliders.

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 7 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

200.31/32.0005
200.35.0004
200.35.0005
200.53/54.0004

the new control fittings are made and then installed according to the drawings

200.31.S.1
200.35.S.1
200.51.S.2 .

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 page 46 of the ASW 20 manual.

Notes :

1. This TN is effected in series production as of S/N 20220.
2. For repairs of ASW 20, S/N 20001 thru 20219 control surfaces built according to this TN may be used.

Drawings :

For this TN the following drawings were corrected :
200.31.S.1, 200.35.S.1 and 200.51.S.2 .

The following drawings were new made :

200.31/32.0005
200.35.0004
200.35.0005
200.53/54.0004 .

The following drawings are no longer applicable :

200.31.0002
200.35.0002
200.35.0003
200.53/54.0002 .

Poppenhausen, January 3, 1979

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Joelard Weibel

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

In any case of doubt the German text is authoritative.