

Kind : Improvement

Subject : Weight saving as product improvement-

Effectivity : ASW 20s as of serial number 20 220.

Accomplishment : None; only for new production-line ASW 20s.

Reason : Weight saving is a desirable improvement in aviation generally. In the following some components are listed which are regarded to be overbuilt from the experience of 150 ASW 20s in service until today.

Furthermore, the alternative use of aramid fiber cloth ( Kevlar 49 ) and E-glass is allowed for some fiber-reinforced plastic parts of secondary structure. This does not result in a cheapening of the components parts at the present stage of Kevlar production, but it results in a lower structural weight and it means to get experience in the use of the new fibers.

Instructions : 1. According to the corrected drawings respectively lamination plans the following parts are made :

200.11.0128  
200.11.0150  
200.11.0151  
200.11.0152  
200.11.0153  
200.11.0155  
200.11.0156  
200.11.0157  
200.11.0158  
200.11.0159  
200.11.0160  
200.11.0161  
200.11.0162  
200.11.0163  
200.11.0175  
200.11.0176  
200.11.0177  
200.12.0152  
200.21.0152  
200.21.0153  
200.43.0150  
200.44.0150  
200.51.0157  
200.52.0157

with correctional note : TM 6  
dated Sept. 29, 1978

The parts no. 200.11.0122 and 200.12.0151 are no longer necessary.

2. Part No. 200.11.0014, which is damping capacity for static pressure, is no longer installed. Today either a TE-probe or a separate system for static ports in the fuselage nose is used for modern vario systems. The static capacity is of no use for the A.S.I.
3. The plywood parts ( milled )  
200.11.0116  
200.11.0123  
200.11.0126  
are reduced in weight. Please see the dotted contours on the drawings with correctional note "TM 6, dated Sept. 29, 1978".

Weight and Balance :

The modifications according to this TN result in a reduction of empty weight of about 5,2kg for fiberglass versions and of about 7kg for aramid fiber versions. If modified parts are used a weight and balance must be done.

Notes :

For repair and maintenance jobs the lighter parts according to this TN may be used - also singly - for older ASW 20s ( S/N 20 001 through 20 219 ).

Drawings :

For this TN the following drawings were new made :

200.11.0114  
200.11.0128  
200.12.0152 .

The drawings listed below are corrected by the note "TM 6, dated Sept. 29, 1978" :

200.11.0116  
200.11.0123  
200.11.0126  
200.11.0150  
200.11.0151  
200.11.0153  
200.11.0155  
200.11.0156  
200.11.0157  
200.11.0158  
200.11.0159  
200.11.0160  
200.11.0161  
200.11.0162  
200.11.0163

Sheet 3

Number of sheets : 3

ASW 20  
Technical Note  
No. 6

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200.11.0175  
200.11.0176  
200.11.0177  
200.21.0152  
200.21.0153  
200.43.0150  
200.44.0150  
200.51.0157  
200.52.0157

The drawings 200.11.0014 and 200.11.0122 and 200.12.0151  
are no longer applicable.

Poppenhausen, September 29, 1978

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Gerhard Waibel.

The German original of this TN is approved by LBA under the date of  
January 11, 1979, and is signed by FRIES.

In any case of doubt the German text is authoritative.