

Kind : Improvement.

Subject : Weight saving as product improvement.

Effectivity : ASW 19s as of serial number 19 271 .

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

Reason : Weight saving is a desirable improvement in aviation generally. In the following ASW 19-components are listed which are regarded to be overbuilt from the experience of more than 200 ASW 19s flying.

Alternatively to E-glass the use of aramid fiber cloth ( Kevlar ) is allowed for some fiber-reinforced plastic parts of secondary structure. This does not result in a cheapening of the component parts at the present stage of Kevlar production, but it gives 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.

190.11.0150  
190.11.0151  
190.11.0152  
190.11.0153  
190.11.0156  
190.11.0157  
190.11.0158  
190.11.0159  
190.11.0160  
190.11.0161  
190.11.0162  
190.11.0163  
190.21.0152  
190.21.0153  
190.43.0150  
190.44.0150  
190.51.0157  
190.52.0157

with correctional note of  
September 8, 1978

2. According to lamination plan 190.11.0173 a new lighter instrument panel is made. In the mold fitting to this panel the instrument cover is made according to lamination plan 190.12.0152.
3. The P/N 190.11.0014, which is damping capacity for static pressure, is no more installed. Today either a TE-probe or a separate system for static ports in the fuselage nose is used for modern vario systems.  
The capacity is of no use for the A.S.I.

4. P/N 190.11.0116, which is a plywood reinforcement of the bulkhead for the landing gear, is reduced in weight. See dotted contours on the drawing with note TN 9 of Sept. 8, 1978.

Weight and Balance : The modifications according to this TN result in a reduction of empty weight of 3,2kg for fiberglass versions and of 4,1kg 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 19s ( S/N 19 001 through 19 270 ).

Drawings : For this TN the following drawings were new made :  
190.11.0173 and  
190.12.0152 .

The drawings listed below are corrected by the note TN 9 dated Sept. 8, 1978 :

190.11.0116  
190.11.0150  
190.11.0151  
190.11.0152  
190.11.0153  
190.11.0156  
190.11.0157  
190.11.0158  
190.11.0159  
190.11.0160  
190.11.0161  
190.11.0162  
190.11.0163  
190.21.0152  
190.21.0153  
190.43.0150  
190.44.0150  
190.51.0157  
190.52.0157 .

The drawing 190.11.0014 is no longer applicable.

Poppenhausen, September 11, 1978

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The German original of this TN is approved by LBA under the date of 15. Jan. 1979 and is signed by Frieß.

In any case of doubt the German text is authoritative.