

**Kind:** Improvement

**Subject:** Installation of a forward towing hook.

**Effectivity:** ASW 15, optional for new orders.

**Reason:** Specially during the first aerotows, new pilots of the ASW 15 have difficulties with a ground looping tendency during the start phase, when the wind is cross from the right. The ground looping tendency can be prevented effectively by pulling the stick until take off (see page 10 of the flight manual); this pulling may be forgotten during the first starts.

**Accomplishment:** None. The modification is offered to the customer when he orders his sailplane, if he intends to aerotow mostly.

**Instructions and materials:** Metal fitting and milled wooden parts to be made according to drawings 150 11 M 16 and 150 11 H 9. The parts shall be installed according to drawing 150 11 Bl. 31.

**Weight and balance:** The installation of the front towing hook gives no extra weight, if the C. of G. towing hook is not mounted. The installation of both hooks gives 1,3 kgs more of weight. The influence to the C. of G. is poor; the tendency is noseheavy, and therefore not critical.

**Remarks:** The installation of the forward and the C. of G. towing hook at the same time is possible, but not recommended, as the forces at the pulling knob may become very high when the towing hooks are dirty, etc.

If the aerotow is the mostly used launching method, only the forward towing hook is recommended. Also auto and winch launches are possible with this hook, but the possible towing altitudes are somewhat lower compared to the C. of G. towing hook.

If the forward towing hook is installed, page 15 a must be added to the flight manual, and this must be documented on page 3.

The installation of the forward towing hook to existing ships is very expensive because of the exchange of the milled wooden parts, but it is possible in general.

Sheet 2

Number of Sheets: 2

ASW 15  
Technical Note  
No. 5

**Alexander Schleicher**  
**Segelflugzeugbau**  
**6416 Poppenhausen**

Drawings: The modification is documented by the following new drawings:

150 11 Bl. 31

150 11 H 9

150 11 M 16.

The above figured drawings are added to the list of drawings of the ASW 15.

Poppenhausen, 1st September, 1971

ALEXANDER SCHLEICHER  
Segelflugzeugbau

*Julius Weibel*