

Kind: Improvement

Subject: TN 6 a : Higher all up weight  
TN 6 b : Installation of a friction trim

Effectivity: All ASW 19 from S/N 19001 through 19225

Accomplishment: none (optional)

Reason: According to the wishes of several competition pilots the max. approved all up weight is *increased* to 454 kg (1000 lbs) to improve high speed performance.

Instructions:

TN 6 a :

- 1.) According to drawing 190.11.0017 and 190.11.0018 with correction note TN 6 a dated 12.06.78 the attachment of the towing hooks (bushings and bigger washers for forward attachment of rear hook and 4 nuts and bolts M 8 for both attachment fittings of the front hook) is reinforced. Please regard drawings 190.11.S 4, 190.11.S 15, 190.11.0039 and 190.11.0040.
- 2.) A Flight and Operation Manual for the ASW 19 B, June 1978 edition must be issued for the sailplane.
- 3.) The colored marks of the airspeed indicator must be changed.
  - a) Red radial at 255 km/h (138 knots, 158 mph).
  - b) Yellow range extended to 255 km/h (138 knots, 158 mph).
  - c) Yellow triangle (approach speed) at 90 km/h (49 knots, 56 mph).
  - d) Green range to begin only at 85 km/h (46 knots, 53 mph).
- 4.) Correction of Type Plate and Data Placard.

TN 6 b :

According to drawings 190.49.0004, 190.49.0005, 190.49.0006 and 190.49.0007 the components of the friction trim are made and installed according to drawing 190.11.S 15.

Material: See drawings.

Weight and balance:

The influence of the structural modifications is neglectable. The max. weight of the no lift producing members is increased from 225 kg to 230 kg (507 lbs) according to substantiation papers for this TN. Therefore usually the max. cockpit load goes up by 5 kg (11 lbs) with a upper limit of 115 kg (253,4 lbs). If necessary the empty weight of the no lift producing components must be determined by a new weighing.

Remarks:

- 1.) For increasing the max. all up weight to 454 kg (1000 lbs) and the max. weight of no lift producing members to 230 kg (507 lbs) only the modifications according to TN 6 a. are mandatory.
- 2.) For this TN the substantiation of airworthiness established for the ASW 19 B model is valid.

Drawings:

TN 6 a :

Drawings 190.11.0017 and 190.11.0018 are corrected and marked TM 6 a, dated 12.06.78. Also drawing 190.11.S 4 is corrected. Drawings 190.11.0039 and 190.11.0040 are new.

TN 6 b :

Drawings 190.49.0004, 190.49.0005 and 190.49.0006 are new and replace drawings 190.49.0001 and 190.49.0002.

TN 6 a and 6 b :

Drawing 190.11.S 15 is new.

Poppenhausen, the 12.06.78

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The german original of this TN is approved by LBA, dated 26. June 1978,  
signed Frieß.