

**Subject:** Increase in the mass and static residual moment limits for the elevator

**Concerned:** ASTIR CS S/N 1001 - 1536  
 ASTIR CS 77 S/N 1601 - 1844  
 ASTIR CS Jeans S/N 2001 - 2248

**Urgency:** optional

**Procedure:** During execution of Service Bulletin 306-33 (exchange of the elevator lever) it was noted sporadically that after modification the mass and static residual moment limits for the elevator were exceeded. To solve this problem a flutter analysis was performed to approve an increase in the limits for the mass and the static residual moment. This allows to increase the maximum permissible mass of the elevator from actual 2,97 kg (2,7 kg + 10%) to 3,25 kg and the maximum permissible static residual moment from 13,2 kgcm (12,0 kgcm + 10%) to 15,0 kgcm.

**Actions:** A correction of the Flight Manual will be performed during the next revision, in which page 20 will be changed as follows:

ASTIR CS (S/N 1002 - 1536)

Elevator	10,00 to 15,00 kgcm	2,40 to 3,25 kg
Rudder	13,65 kgcm ± 10%	3,2 kg ± 10%
Aileron	16,00 kgcm ± 12%	4,1 kg ± 12%

ASTIR CS 77 (S/N 1601 - 1698)

ASTIR CS JEANS (S/N 2001 - 2092)

Elevator	10,00 to 15,00 kgcm	2,40 to 3,25 kg
Rudder	16,50 kgcm ± 10%	4,5 kg ± 10%
Aileron	16,00 kgcm ± 12%	4,1 kg ± 12%

ASTIR CS 77 (as of S/N 1699)

ASTIR CS JEANS (as of S/N 2093)

Elevator	10,00 to 15,00 kgcm	2,40 to 3,25 kg
Rudder	0 to 5,00 kgcm	max. 6,00 kg
Aileron	0 to 1,00 kgcm	max. 6,00 kg

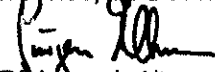
**Note:** Until the revision of the Flight Manual is incorporated, the changes have to be included by hand, if required.

**Material:** -

**Weight and Balance:** -

**Remarks:** If you have sold your sailplane in the meantime, would you kindly pass this information on to the new owner and forward his name and address and aircraft S/N to us.

Matties, 04 December 1994

  
 Dipl.Ing. J. Altmann  
 (Airworthiness Engineer  
 Certification Staff)

**LBA approved:**

This Service Bulletin is originally written in German and approved by the German LBA on the 21 December 1994. The translation has been accomplished to the best of our knowledge and judgement.