



THE GLIDING FEDERATION OF AUSTRALIA

GFA AD 466
(ISSUE 1)

GFA AIRWORTHINESS DIRECTIVE

TYPE AFFECTED: Astir CS S/N 1001 - 1536
Astir CS 77 S/N 1601 - 1844
Astir CS Jeans S/N 2001 - 2248

SUBJECT: Increase in the elevator maximum permitted mass and residual moment.

BACKGROUND: Because a number of elevators which have had the elevator horn replaced (See GFA AD 261) were over original mass and balance limits, Grob performed a flutter analysis and were able to prove that the limits for the elevators may be increased.

DOCUMENTATION: Grob Service Bulletin 306-34 which forms part of this AD.

ACTION REQUIRED: Update page 20 of the Flight Manual, by hand, to reflect the new mass and moment limits as listed in Service Bulletin 306-34.

WEIGHT AND BALANCE: Not affected.

IMPLEMENTATION: Updating the manual may be performed by the Certificate Holder.

COMPLIANCE: The requirements of this GFA Airworthiness Directive are mandatory. This Directive is issued pursuant to the Rules and Regulations of the Gliding Federation of Australia.

SIGNED:

Jonathan Shand
CHIEF TECHNICAL OFFICER AIRWORTHINESS

For and on behalf of:

THE GLIDING FEDERATION
OF AUSTRALIA

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Service Bulletin
306-34GROB
G 102

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.

Metties, 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.

Datum/ Date	Ersetzt Ausgabe/ Issue Edition	Bearbeitet/ Prepared by	Mustergeprüft/ Approved by	Seite/ Page
04.12.94		J. Altmann		1 of 1