



AIRWORTHINESS DIRECTIVE

TYPES AFFECTED:

GROB G109 Powered sailplane
(All Serial numbers)

SUBJECT:

- (1) Restriction of c.g. range (aft limit changed from + 510mm to + 465 mm A.R.L.E.)
- (2) Change of spin recovery procedures.

BACKGROUND:

Operational experience has required Grob to issue TM 817-10, which outlines Flight and Maintenance Manual amendments, and installation of additional cockpit placards.

ACTION REQUIRED:

In accordance with TM 817-10, which constitutes part of this A.D. :-

- (1) Update the Grob Flight Manual.
- (2) Update the Grob Maintenance Manual.
- (3) Fit 3 new cockpit placards

NOTE! The new placards are to be fitted before the next flight.

IMPLEMENTATION:

- (1) Actions (1) and (2) may be carried out by the owner/operator.
- (2) Action (2) may be carried out by the owner/operator, but must be recorded in the airframe log book.

COMPLIANCE:

The requirements of this Airworthiness Directive are mandatory. This Airworthiness Directive is issued pursuant to Air Navigation Regulations under the delegated authority of the Secretary of the Department of Aviation.

Issued by:

Chief Technical Officer
Airworthiness

Date 2/8/1983

For and on behalf of:

GLIDING FEDERATION OF AUSTRALIA

Sheet 1 of 1



Subject: Reduction of center of gravity range and procedure for spin recovery.

Effectivity: Motorglider GROB G 109, all serial numbers.

Accomplishment: Immediately after receipt of this information, but not later than Juli 15, 1983.

Reason: After flight experience with G 109 the manuals must be modified to reduce the CG range and to describe the procedure for spin recovery.

Instructions:

1. To update the Flight Manual to revision state of 2.5.1983 the following pages have to be exchanged.
 - Pages 4 and 4a (supersede issue of 14.12.82)
Amendment list of 2.5.83
 - Page 8 (supersedes issue of 1.3.81)
Aerobatic inclusive intentional spins prohibited
 - Page 16 (supersedes issue of 12.5.81)
Correction of weights
 - Page 17 (supersedes issue of 1.3.81)
CG range 29,5 % to 36 %
 - Page 19 (supersedes issue of 12.5.81)
Modified load table
 - Page 19a (new)
Load table diagram
 - Page 20 (supersedes issue of 1.3.81)
Procedure to calculate CG
 - Pages 23 and 24 (supersede issue of 12.5.81)
CG-schedule, example
 - Page 24a (new) Example
 - Page 26a (supersedes issue of 12.5.81)
Empty weight CG
 - Pages 30 and 38 (supersede issue of 1.3.81)
Preflight inspection and spin recovery
 - Page 49 (supersedes issue of 1.3.81)
Outside parking
2. To update the Maintenance Manual to revision state of 2.5.1983 the following pages have to be exchanged.
 - Pages 4 and 4a (supersede issue of 1.10.82)
Amendment list of 2.5.83

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Page 46 (supersedes issue of 1.10.82)

Placard "baggage" modified

Page 47a (supersedes issue of 1.3.81)

Placard "fuel-quantity" and "aerobatic" new

3. The following placards must be fixed in the cockpit:

- "Aerobatic inclusive spinning prohibited" at O/h panel
- "Fuel quantity" near the instrument
- "Baggage inclusive oxygen-cylinder see load table" in the baggage compartment

Material:

The exchange pages 4, 4a, 8, 16, 17, 19, 19a, 20, 23, 24, 24a, 26a, 30, 38 and 49 of the Flight Manual and the exchange pages 4, 4a, 46 and 47a of the Maintenance Manual have to be obtained from the manufacturer.

Mattsies, May 2, 1983

Approved by LBA

i. A. Dipl. Ing. H. Wilser

24.05.1983

H. Wilser

AUSTRALIAN GROB 109s

To comply with GFA requirements that solo pilots down to 55kg can be carried, 2 ballast bars of 8kg each can be fitted 300mm ahead of the root leading edge, under the pilot's knees.

This is summarised on Page 26(a) as a GFA amendment to the Grob Flight Manual.

M.P. Burns
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GFA/CTOA.