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)
   Aerodynamic 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 (supersedes 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 (supersedes 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

.../...
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 left hand 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

i.A. Dipl. Ing. H. Wilser

Approved by LBA

24. Mai 1983

Hans Wilser