



Technical information  
TM 817-12

Motorglider  
GROB G 109 B

Subject: Installation of equipment for controlled VFR-Flights

Effectivity: Motorglider GROB G 109 B, all serial numbers from 6200 and subsequently

Accomplishment: optional

Reason: The installation of the following equipment is allowed:

- TM 817-12/1 VHF - Radio
- TM 817-12/2 NAV (VOR)
- TM 817-12/3 ADF
- TM 817-12/4 Intercom
- TM 817-12/5 Transponder
- TM 817-12/6 Gyro Horizon
- TM 817-12/7 Directional Gyro
- TM 817-12/8 Turn and bank indicator
- TM 817-12/9 Anti-collision light
- TM 817-12/10 Landing light
- TM 817-12/11 Position lights

The installation of only some of these components is possible. (Example: Installation of position lights and landing light only, has to be attested in the flight log: TM 817-12/10, 11 carried out.)

According to German requirements the following equipment is necessary. The certification for controlled VFR Flights (CVFR) includes flights on top of cloud layers as well as VFR flights at night.

1. Controlled VFR flights
  - VHF Radio
  - Directional gyro
  - turn and bank indicator or gyro horizon
  - Variometer
  - NAV (VOR)
  - Stop-watch
  - Transponder recommended
2. VFR flights on top of cloud layers:
  - VHF Radio
  - NAV (VOR) or ADF
3. VFR flights at night:
  - VHF Radio
  - NAV (VOR) or ADF
  - Position lights
  - Anti-collision lights
  - Instrument light
  - Landing light recommended



Instructions:

1. Installation of equipment according to "Type Manual for Avionic Installation GROB G 109". Issue June 1983
2. Provision of: "Appendix for Avionic Equipment of Flight Manual of Motorglider GROB G 109". Issue March 1983
3. Provision of: "Appendix for Avionic Equipment of Maintenance Manual of the Motorglider GROB G 109". Issue June 1983
4. Change page 8 of Flight Manual and the Log of Revisions

Material:

The required material for Becker 2000 equipment will be offered by the manufacturer of the motorglider on request.

Weight and Balance:

Provision of a new weight and balance sheet after installation of equipment is required.

Remarks:

Execution of instruction only by the manufacturer of the motorglider.  
Execution of instructions in foreign countries only after having contacted the manufacturer of the motorglider.

Mattsies, 1st september, 1983

LBA approved, 24th october, 1983

A handwritten signature in cursive script, appearing to read "Wilser".

o.i. Dipl. Ing. H. Wilser



Instructions:

1. Installation of equipment according to "Type Manual for Avionic Installation GROB G 109 B". Issue september 1983
2. Provision of: "Appendix for Avionic Equipment of Flight Manual of the Motorglider GROB G 109 B". Issue september 1983
3. Provision of: "Appendix for Avionic Equipment of Maintenance Manual of the Motorglider GROB G 109 B". Issue september 1983
4. Change page 8 of the Flight Manual and the Log of Revisions.

Material:

The required material for Becker 2000 equipment will be offered by the manufacturer of the motorglider on request.

Weight and Balance:

Provision of a new weight and balance sheet is required after having installed the equipment.

Remarks:

Execution of instructions only by the manufacturer of the motorglider.  
Execution of instructions in foreign countries only after having contacted the manufacturer of the motorglider.

Mattsies, 26th september, 1983

LBA approved, 10th november, 1983

A handwritten signature in cursive script that reads "Wilser".

o. i. Dipl. Ing. H. Wilser