



Technical information  
TM 817-11

Motorglider  
GROB G 109

Subject: Installation of equipment for controlled VFR-Flights

Effectivity: Motorglider GROB G 109, all serial numbers from 6001 and subsequently

Accomplishment: optional

Reason: The installation of the following equipment is allowed:

- TM 817-11/1 VHF Radio
- TM 817-11/2 NAV (VOR)
- TM 817-11/3 ADF
- TM 817-11/4 Intercom
- TM 817-11/5 Transponder
- TM 817-11/6 Gyro Horizon
- TM 817-11/7 Directional Gyro
- TM 817-11/8 Turn and bank indicator
- TM 817-11/9 Anti-collision light
- TM 817-11/10 Landing light
- TM 817-11/11 Position light
- TM 817-11/12 Instrument light
- TM 817-11/13 Reinforced generator and battery

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 817-11/10, 11 carried out).

According to German requirements the following equipment is necessary. The certification for controlled VFR Flights (VFR) 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
  - NAV (VOR)
  - Variometer
  - 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