

Service Bulletin 817-46/2 substitutes Service Bulletin 817-46, dated 09.03.98.

Subject: Use of unleaded fuel

Concerned: Motorglider Model: TCDS No. 817
G 109B all S/N's with aircraft engine GROB 2500
or with aircraft engine LIMBACH L2400

Urgency: optional

Procedure: For a short time no leaded fuel is obtainable at many service stations. Therefore GROB offers the optional modification of the aircraft engine GROB 2500 for the use of unleaded fuel (unleaded Super fuel, minimum Octane number ROZ 96). During the general overhaul all engines are modified for the use with unleaded fuel in principle. After the modification the engine also may be operated further using AVGAS or leaded fuel.
The aircraft engine LIMBACH L2400 may be operated with unleaded fuel according to LIMBACH SB 53.1.

Actions: **1. The following modifications must be performed at the aircraft engine GROB 2500 or at the aircraft:**

- replacement of the cylinder heads
(marking by manufacturer i.e. **G 7 11 001**)

thereby means:

G = GROB
7 = year of manufacturing 199 7
11 = month of manufacturing 11 = November
001 = current number 1

- installation of fuel hoses according to **DIN 73379**, at engine and fuselage
(only for S/N's 6200 up to 6445, as of S/N 6500 PTFE hoses are installed)
- installation of carburettor diaphragms, resistant for unleaded fuel

2. Installation of a return hose into the fuel system according to Installation Instructions No. 817-46.

3. In the Flight Manuals the following revisions must be performed:

German Issue: Revision 5, dated 09.03.98
English Issue: Revision 5, dated 09.03.98

4. In the Maintenance Manuals the following revisions must be performed:

German Issue: Revision 7, dated 09.03.98
English Issue: Revision 7, dated 09.03.98

5. At the fuel filler neck at the L/H fuselage the following new placard must be attached:

FUEL
100 Ltr.
- AVGAS 100 LL
- min. ROZ 96,0 octane
- SUPER UNLEADED

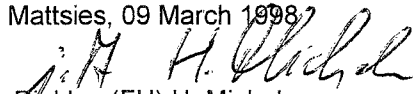
Material: The exchange pages for the manuals and the placard are attached to the Service Bulletin. The required material including the Installation Instructions can be ordered from GROB.

Weight and Balance: not concerned

Remarks:

1. The actions can be performed by a competent person and has to be certified in the logbook by an authorized inspector
2. If you have sold your motorglider 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.

Mattsies, 09 March 1998


Dipl. Ing (FH) H. Micheler
(Airworthiness Engineer
Certification Staff)

LBA approved:

This Service Bulletin is originally written in German and approved by the German LBA on the **19. 07. 99** 1999. The translation has been accomplished to the best of our knowledge and judgement.

