TECHNICAL NOTE

Reference: Sailplane Type: Standard Libelle

German Data Sheet No. 251, all Serial Numbers

Subject: Subsequently Waterballast installation

Object: Performance improvement

Urgency: None.

Modification optional

Completing the following procedures enables the Standard Libelle to fly at the higher weights and speeds of the Standard Libelle 201 B, according to Data Sheet 251.

Method: 1. The Standard Libelle flight and service Manual of October 1968 is to be amended as follows:

Page 2 under " A.Flight and Service Manual " enter
" Remarks - flying with water ballast ... 3 a "

Page 3 unter " Amendments " - enter

No.	Item	Page	Date	Signature
1	Table of Contents	2		
2	Flying with waterballast	3,abc		

On the blank page facing page 4, glue in the supplement with the pages 3 a, 3b, 3c of April 1972. " Remarks on servicing sailplanes with water-ballast. " wich is acknowledged by the German Luftfahrt-Bundesamt.
The empty weight centre of gravity diagram on page 6 is to be deleted.

2.

The air-speed indicator is to be replaced by one measuring 31 - 165 mph or 27 - 143 kt, as manufactured by Winter. The dial is to be marked according to Glasflügel drawing Nr. 201 - 60-20.

3.

The data placard in the aircraft is to be replaced like the one below

GLASFLÜGEL

STANDARD Libelle 201B

AIRSPEED LIMITS

MAX. SPEED	165 kts (165 Mph)
AIRPLANE TOW	81 kts (93 Mph)
AUTO TOW	65 kts (74 Mph)
WINCH TOW	65 kts (74 Mph)
MAX. GROSS WEIGHT	770 lb
MAX. WEIGHT OF NONELIFTING PARTS	462 lb

NO ACROBATIC MANEUVERS INCLUDING SPINS APPROVED!
PAYLOAD IN COCKPIT 165 - 243 lbs
WEIGHT DIFFERENCE IS TO COMPLETE WITH BALLAST

4. The waterballast system is to be installed according to Glasflügel drawing numbers

   201 - 60 - 11
   201 - 60 - 12

5. After the modification 1 - 4 above, the empty weight centre of gravity is to be measured and checked according to the diagram on page 3 a of the handbook.

6. After steps 1-5 above are completed, checking is to be done according to § 30 Abs. 2 LuftGer.PO. or equivalent.

Material: Waterballastkit
According to Glasflügel specifications and drawing numbers

201 - 60 - 11
201 - 60 - 12

Weight: Increase of about 11 pounds

Centre of Gravity: Almost unchanged with empty tanks. With full tanks the c.g. moves slighthy forward. Because of the higher payload the center of gravity range of the empty glider is reduced (see diagramm page 3c of supplement).

Supply: Waterballastkit, handbook supplement pages and new data placards can be obtained from

Fa. GLASFLÜGEL, Ing.Eugen Hänle

D-7311 Schlattstall, W.Germany

Tel. 07026 / 855

Airspeed indicators can be obtained from the maker:

Fa. Gebr. Winter

D-7455 Jungingen

Postfach 6

Germany

May 1972

GLASFLÜGEL SCHLATTSTALL