

S e r v i c e B u l l e t i n N o . 2 0 / 2

Affected aircraft: All Serial No's of sample H-36

Subject: Hoffmann variable pitch propeller
HO - V 62 R/L 160 BT

Occasion: Alternativ usability of variable pitch
propeller HO - V 62 R/L 160 BT on sample

Required actions:

1. Exchange propeller with blade type
L 160 T for type L 160 BT according to
work instruction No. 8
2. Exchange of pages 1-4 in flight manual
resp. 14 in maintenance and repair manual.
Entry of changes in the revision sheets
of the manual. (Page 1-4 in flight manual
resp. page 14 in maintenance and repair
manual).

Urgency: Action 1: None
Action 2: After execution of action 1 before
next flight.

Weight and balance: The empty weight raises by 0,8 kg
The empty - CG moves about 2,5mm to the front

Remarks: Action 1 must be performed by the manufacturer
or by an aircraft maintenance engineer and
must be certified in the logbook.
Action 2 can be done by a competent person.
The S.B. No. 20 of the February 5, 1987 is
replaced by this S.B.

Vienna, 28th of August, 1987

Dipl.-Ing. O. Seidler



BAZ approved:

11th of September, 1987



Approval of translation has been done by best knowledge
and judgement — in any case the original text
in German language is authoritative

Hoffmann
H 36 DIMONA

1
General

TECHNICAL DATA

Wing Span 16,0 Meters (52 ft.)
 Length..... 6,85 Meters (22 ft.)
 Wing Area 15,20 m² (164 sq.ft.)

Wing Ratio 16,8
 Maximum Gross Weight 770 kg (1698 lbs.)
 Maximum Wing Loading 50,7 daN/m²(10,38 lbs/sq.ft.)
 Airfoil Wortman FX 63-137
 Engine Limbach L 2000 EB I.C (59 kw/80 hp.
 rated at 3.400 Rpm)
 Propeller Hoffmann Ho-V 62 R/L 160 T od. L 160 BT

1.3 Description:

The Hoffmann H 36 DIMONA is a two seat motor glider constructed from glass fiber. Design features are unbraced wing, T-type stabilizer, fixed landing gear with steerable tail wheel. All three wheels are covered with fairings. Seating arrangement is side-by-side. Air brakes are provided in the wings upper surface. The aircraft is certified in accordance with JAR 22 in the UTILITY CATEGORY.

1.4 Engine:

Limbach L 2000 EB I.C, Four cylinders, opposed, aircooled, direct drive. The engine produces 59 KW/80 Hp at 3.400 RPM.

1.5 Propeller:

Hoffmann Ho-V 62 R/L 160 T or. L 160 BT, two blade with a diameter of 160 cm (63 inches). The propeller has three pitch positions, controlled by the pilot.

1.6 Fuel:

The approved fuels are Aviation Grade 100 LL or Automotive fuel "Super". The capacity of the fuel tank is 83 liters (22 gal.). The total usable fuel is 83 liters (22 gal).

30. Jan. 1987

Hoffmann
H 36 Dimona

Systems
Description

3.5 POWER PLANT

The engine in the DIMONA is a Limbach L 2000 EB 1.C. The engine is of opposed cylinder arrangement, 4 cycle, and delivers 80 hp rated power. The lubrication is wet sump. The engine is installed in the nose of the aircraft and is direct drive. The propeller is a Hoffmann HO-V 62R/L160T or. L 160 BT . The propeller has three pitch positions and is mechanically actuated.

The engine is installed within the fuselage on traverse members, fore and aft. On each corner of the traverse assemblies are "Silent Blocks" which serve as shock mounts to negate engine vibration. The "Silent Blocks" are installed at a 45EoB angle to permit optimum dampning. Within the dampner blocks are steel lugs to prevent excessive movement of the power plant assembly. These lugs also act as restrainers, should the rubber mount be damaged. The fuselage structure is so designed, that the stringers, on which the dampners are attached, carry the load thru the entire fuselage. This type of engine installation has several distinct advantages.

- a. Engine movement is restricted
- b. Vibration and noise in the cockpit area is reduced
- c. In the event that an emergency landing is performed, the fuselage structure absorbs the impact loading and not the engine or engine mount.

The fireproof bulkheads in the engine compartment are providing safety for the cockpit in the event of fire and protect the forward structure as well.

1. Engine removal; The engine must be removed for overhaul or repair.
- a. Loosen and remove the four screws on the engine cowling, remove cowling.
 - b. Remove lower air vent grill.
 - c. Remove Positive (+) cable from battery and the following electrical cables with their respective cable numbers: Starter cable Nr.2 Ground cable Nr. 3, Cylinder head temperature cable Nr. 6, Oil temperature Nr. 7, Ignition Ground Nr. 9, Oil Pressure and Oil Pressure Warning Nr. 10 and 11, Voltage Regulator Nr. 15.

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