TECHNICAL BULLETIN

TBO for ROTAX Engine Series Type 912 A

Mandatory

Subject: Increase of TBO from 600h or 10 years to 1000h or 10 years of operation.

Engines affected: All engines of Series Type 912 A starting with engine no. 4,076.192 in accordance with Type Certificate TW 8/89.

Reason: In the agreement of the 27. July 1992 with the Type Certificate Authority BAZ the program for the 1. extension of the period between overhauls was conducted. Owing to the good findings of the 5 engines examined the TBO can be increased from the present 600^{h} / 10 years to the period of 1000^{h} / 10 years, under consideration of the 600^{h} inspection.

Compliance: TBO 1000^{h} / 10 years to be effective with engine no. 4,076.192.

Remedy: Not applicable.

Accomplishment: The 600^{h} inspection to be performed according to instructions overleaf. Revision no. 4 of the Operator´s Manual in May 1994 to be entered without delay or the Manual to be exchanged for a new one of ROTAX engine series 912 A - rev. no. 4.

The necessary measures to be taken and certified by the manufacturer of the engine or by persons authorized by the relevant CAA.

New Operator‘s Manual with the revision no. 4 from May 1994 entered, is readily available at BOMBARDIER-ROTAX, A-4623 Gunskirchen.

Approval: The technical contents of this Technical Bulletin have been approved by ACG on **10. November 1994**

Gunskirchen, 1994 08 29

BOMBARDIER-ROTAX GmbH

Instructions:

1) Basically:

On the occasion of the 600h inspection the following has to be carried out.

2) Check of valve spring tension:

Disconnect minus terminal of the battery. Remove Allen screw M6x30 ❶ and washer ❷ from valve cover and take off cover along with o-rings ❸ and ❹. Set cylinder 1 to ignition T.D.C. Fit dial gauge ❺ to indicate any movement of valve spring retainer ❻. Fit test lever ❼ part no. *877 690* in hollow rocker arm shaft ❽ and determine the spring tension on both valves by utilizing a spring balance. Read value on the balance, part no. *877 700*, between 0,2 ÷ 0,3 mm (.008 ÷ .012 in.) indication on dial gauge.

◆ NOTE: Read at first try, with force steadily rising, otherwise action of hydraulic tappet will falsify reading. After a misreading wait until valve is closed again completely. Valve closing can be quickened if necessary, by applying pressure to push rod side of rocker arm with the aid of the test lever.

Check valve springs on all 4 cylinders.

The value shown on the spring balance must not be below 35 N (8 lbf). Valve springs with lower tension must be renewed. Clean sealing face, place both o-rings on valve cover and attach cover with Allen screw M6 x 30 and washer. Tightening torque 10 Nm (90 in lb).

3) Check of float needle:

Detach float chamber by swinging out spring clip.

Examine float valve with float chamber removed. At visible wear of beaded edge ❾ at the spring pin ❿ the valve has to be renewed. If the distance becomes less than 0,5 mm (see illustration) the float level will be affected too. Check support pin ⓫ of floats.

At heavy wear of float bracket contact faces, caused by excessive vibration, renew float and float bracket as required.

Connect battery and conduct trial-run including tightness test.