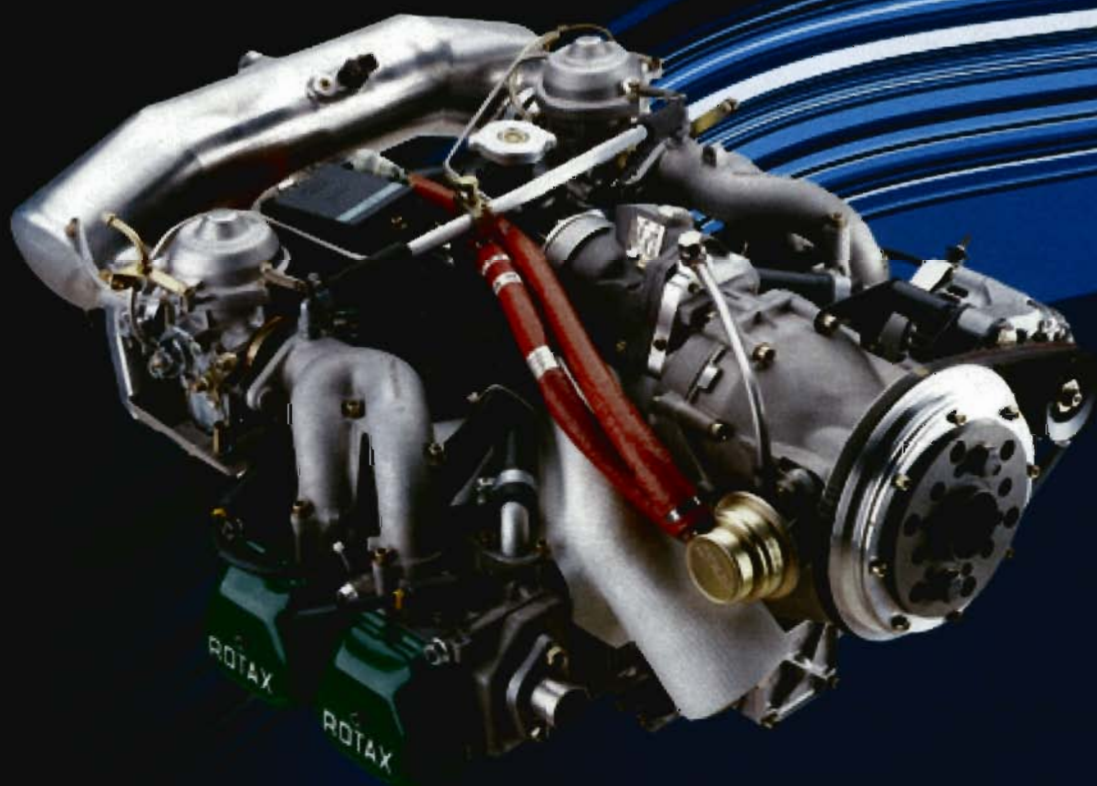




# MAINTENANCE MANUAL

(LINE MAINTENANCE) FOR ROTAX® ENGINE TYPE 912 SERIES



ROTAX® 912 ULS 3 WITH OPTIONS

part no.: 899373

### **2.3) Procedure notes**

When carrying out maintenance and service work, respect without fail the safety regulations.

▲ **WARNING:** Principally ensure the following at **each maintenance event**

- Ignition „**OFF**“ and system grounded,
- Disconnect battery
- Secure engine against unintentional operation.

At maintenance work which requires ignition „**ON**“ and battery connected, take care of the following:

- Secure the propeller against unintentional turning by hand and
- Secure and observe propeller zone.

This precautionary measure serves to avoid any injuries in case of an unintentional start of the engine. Non-compliance can result in injuries or death.

■ **CAUTION:** The ignition is **switched on**, as long as the ground-cable (P lead) is not properly connected to ground.

At maintenance of cooling-, lubricating and fuel system take care without fail that no contamination, metal chips, foreign material and/or dirt enters the system.

▲ **WARNING:** Always allow engine to cool down to outside air temperature before start of any work.

Severe burns and scalds may result if this is not respected.

Before re-using parts disassembled, clean, check and refit them per instructions.

■ **CAUTION:** Generally, all metal parts are cleaned with a suitable cleaning agent.

Before every re-assembly check assembled components whether parts are missing. Only use adhesives, lubricants, cleaning agents and solvents indicated in the maintenance instructions. If not respected, damage may be the consequence.

▲ **WARNING:** Exactly observe the tightening torques for screws and nuts. Overtightening or too loose connection could cause serious engine damage.

## BRP-Rotax

### MAINTENANCE MANUAL

- ▲ **WARNING:** Proceed with this work only in a non-smoking area and not close to sparks or open flames. Switch off ignition and secure engine against unintentional operation. Secure aircraft against unauthorized operation. Disconnect negative terminal of aircraft battery.
- **CAUTION:** Never loosen or tighten screws and nuts with pliers but only with the specified tools.
- **CAUTION:** If during disassembling/reassembling the removal of a safety item (e.g. safety wiring, self-locking fastener, etc.) should be necessary, it must be always replaced by a new one.

Once loosened, **always** replace self-securing nuts.

Use clean screws and nuts only and inspect face of nuts and thread for damage. Check the contact faces and threads for damages. In case of doubt, use new screws and nuts.

At reassembly of the engine, replace all sealing rings, gaskets, securing elements, O-rings and oil seals.

At disassembly of the engine, mark the components as necessary to avoid any mix-up. Take care of these marks, don't ruin them.

#### 2.4) Trouble shooting

In the Operators Manual, possible problems are listed. At the same time, a brief description of the necessary remedial action is given.

See section 12 in the Operators Manual for engine type 912 (Series).