

# SERVICE BULLETIN

## REPLACEMENT OF FUEL PRESSURE REGULATOR ASSY. PART NO. 887130 FOR ROTAX® ENGINE TYPE 914 (SERIES) SB-914-040 UL

**MANDATORY**

### Symbols used:

Please, pay attention to the following symbols throughout this document emphasizing particular information.

- ▲ **WARNING:** Identifies an instruction, which if not followed, may cause serious injury or even death.
- **CAUTION:** Denotes an instruction which if not followed, may severely damage the engine or could lead to suspension of warranty.
- ◆ **NOTE:** Information useful for better handling.

| || A revision bar outside of the page margin indicates a change to text or graphic.

## 1) Planning information

### 1.1) Engines affected

All versions of the engine type:

- 914 UL from S/N 6,773.933 to S/N 6,773.942 / 6,773.958 to 6,773.969 / 6,773.993 to 6,773.996 / 6,774.016 to 6,774.029 / 6,774.072 to 6,774.074 / 6,774.110 to 6,774.113 / 6,774.115 to 6,774.119 / 6,774.178 to 6,774.180 / 6,774.209 to 6,774.213 / 6,774.241 to 6,774.245.

All parts to be delivered as spare parts with a serial number listed below:

- Fuel pressure regulator assy. part no. 887130 with S/N 100213 / 100216 / 100220 / 100228 / 100232 to 100242 / 100245 / 100252 to 100254 / 100259 / 100260 / 100262 / 100264 to 100265 / 100286 to 100287 / 100290 / 100295 / 100298 / 100304 to 100310 / 100350 / 100352 / 100355 / 100357 / 100359 / 100362 to 100363 / 100380 / 100395 to 100396.

- ◆ **NOTE:** The corresponding serial number and part number is visible on the flange of the fuel pressure regulator assy.

For complete instructions and compliance to this Service Bulletin refer to Service Bulletin SB-914-040, latest edition section 1.2 onward.

- ◆ **NOTE:** Section 1.6) Approval: Is not required for engines of the type UL (series).  
Section 3) Accomplishment: In addition: persons with adequate type-specific training.

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#### 1) Planning information

##### 1.1) Engines affected

All versions of the engine type:

- 914 F from S/N 4,420.931 up to S/N 4,420.978 inclusive

All parts to be delivered as spare parts with a serial number listed below:

- Fuel pressure regulator assy. part no. 887130 with S/N 100213 / 100216 / 100220 / 100228 / 100232 to 100242 / 100245 / 100252 to 100254 / 100259 / 100260 / 100262 / 100264 to 100265 / 100286 to 100287 / 100290 / 100295 / 100298 / 100304 to 100310 / 100350 / 100352 / 100355 / 100357 / 100359 / 100362 to 100363 / 100380 / 100395 to 100396.

- ◆ **NOTE:** The corresponding serial number (1) and part number (2) is visible on the flange of the fuel pressure regulator assy. (3) (see fig. 1).

##### 1.2) Concurrent ASB/SB/SI and SL

none

##### 1.3) Reason

Isolated manufacturing deviations at the threads of the fuel pressure regulator could result in slightly leaks in the area of the banjo bolt for the fuel return to tank.

##### 1.4) Subject

Replacement of fuel pressure regulator assy. part no. 887130 for ROTAX® engine type 914 (Series).

##### 1.5) Compliance

- during the next mandatory maintenance event, in accordance with the relevant Maintenance Manual (Line) chapter 05-20-00, at latest October 1<sup>st</sup> 2011 the replacement of the affected fuel pressure regulator assy. must be conducted.

- ▲ **WARNING:** Non-compliance with these instructions could result in engine damages, personal injuries or death.

#### 1.6) Approval

The technical content of this document is approved under the authority of DOA ref. EASA.21J.048.

#### 1.7) Manpower

Estimated man-hours:

engine installed in the aircraft - - - manpower time will depend on installation and therefore no estimate is available from the engine manufacturer.

#### 1.8) Mass data

change of weight - - - none.

moment of inertia - - - unaffected.

#### 1.9) Electrical load data

no change

#### 1.10) Software accomplishment summary

no change

#### 1.11) References

In addition to this technical information refer to current issue of

- Operators Manual (OM)
- Illustrated Parts Catalog (IPC)
- Maintenance Manual (MM)

◆ NOTE: The status of Manuals can be determined by checking the table of amendments of the Manual. The 1<sup>st</sup> column of this table is the revision status. Compare this number to that listed on the ROTAX WebSite: [www.rotax-aircraft-engines.com](http://www.rotax-aircraft-engines.com). Updates and current revisions can be downloaded for free.

#### 1.12) Other publications affected

none

#### 1.13) Interchangeability of parts

- all used parts which cannot be used must be returned F.O.B to a ROTAX<sup>®</sup> Authorized Distributors or their Service Center.

## 2) Material Information

### 2.1) Material - cost and availability

Price and availability will be supplied on request by ROTAX® Authorized Distributors or their Service Center.

### 2.2) Company support information

- Shipping cost, down time, loss of income, telephone costs etc. or cost of conversion to other engine versions or additional work, as for instance simultaneous engine overhaul is not covered in this scope and will not be borne or reimbursed by ROTAX®.

### 2.3) Material requirement per engine

parts requirement:

| Fig.no. | New p/n        | Qty/engine | Description                   | Old p/n | Application                   |
|---------|----------------|------------|-------------------------------|---------|-------------------------------|
|         | 887132         | 1          | fuel pressure regulator kit   | -       | ROTAX® 914 (Series)           |
|         | consisting of: |            |                               |         |                               |
|         | 887130         | 1          | fuel pressure regulator assy. | -       | ROTAX® 914 (Series)           |
|         | 230150         | 8          | gasket ring 10x14             | -       | fuel pressure regulator assy. |
|         | 945751         | 2          | lock washer A6                | -       | fuel pressure regulator assy. |
|         | 851370         | 1          | clamp 8                       | -       | fuel pressure regulator assy. |

### 2.4) Material requirement per spare part

none

### 2.5) Rework of parts

none

### 2.6) Special tooling/lubricant-/adhesives-/sealing compound

none

### 3) Accomplishment / Instructions

- ◆ NOTE: Before maintenance, review the entire documentation to make sure you have a complete understanding of the procedure and requirements to prevent mistakes from an incomplete review of all of the information in this document.

#### Accomplishment

All the measures must be taken and confirmed by the following persons or facilities:

- ROTAX® -Airworthiness representative
- ROTAX® -Distributors or their Service Centers
- Persons approved by the respective Aviation Authority

▲ 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.

▲ WARNING: Risk of scalds and burns! Allow engine to cool sufficiently and use appropriate safety gear while performing work.

▲ WARNING: Should removal of a locking device (e.g. lock tabs, self-locking fasteners, etc.) be required when undergoing disassembly/assembly, always replace with a new one.

- ◆ NOTE: All work has to be performed in accordance with the relevant Maintenance Manual.

#### 3.1) Fuel pressure regulator assy. replacement

(see fig. 1)

1. Visual check of the pressure regulator assy. (3).
2. Fuel pressure regulator assy. disassembly in accordance with the relevant Maintenance Manual.
3. Fuel pressure regulator assy. assembly in accordance with the relevant Maintenance Manual.

- Restore aircraft to original operating configuration.
- Connect negative terminal of aircraft battery.

#### 3.2) Checking the fuel pressure

1. Check the correct fuel pressure (approx. 250 hPa above the airbox pressure). If necessary, adjust the fuel pressure in accordance with the relevant Maintenance Manual.

#### 3.3) Test run (if maintenance works were performed)

Conduct test run including ignition check and leakage test.

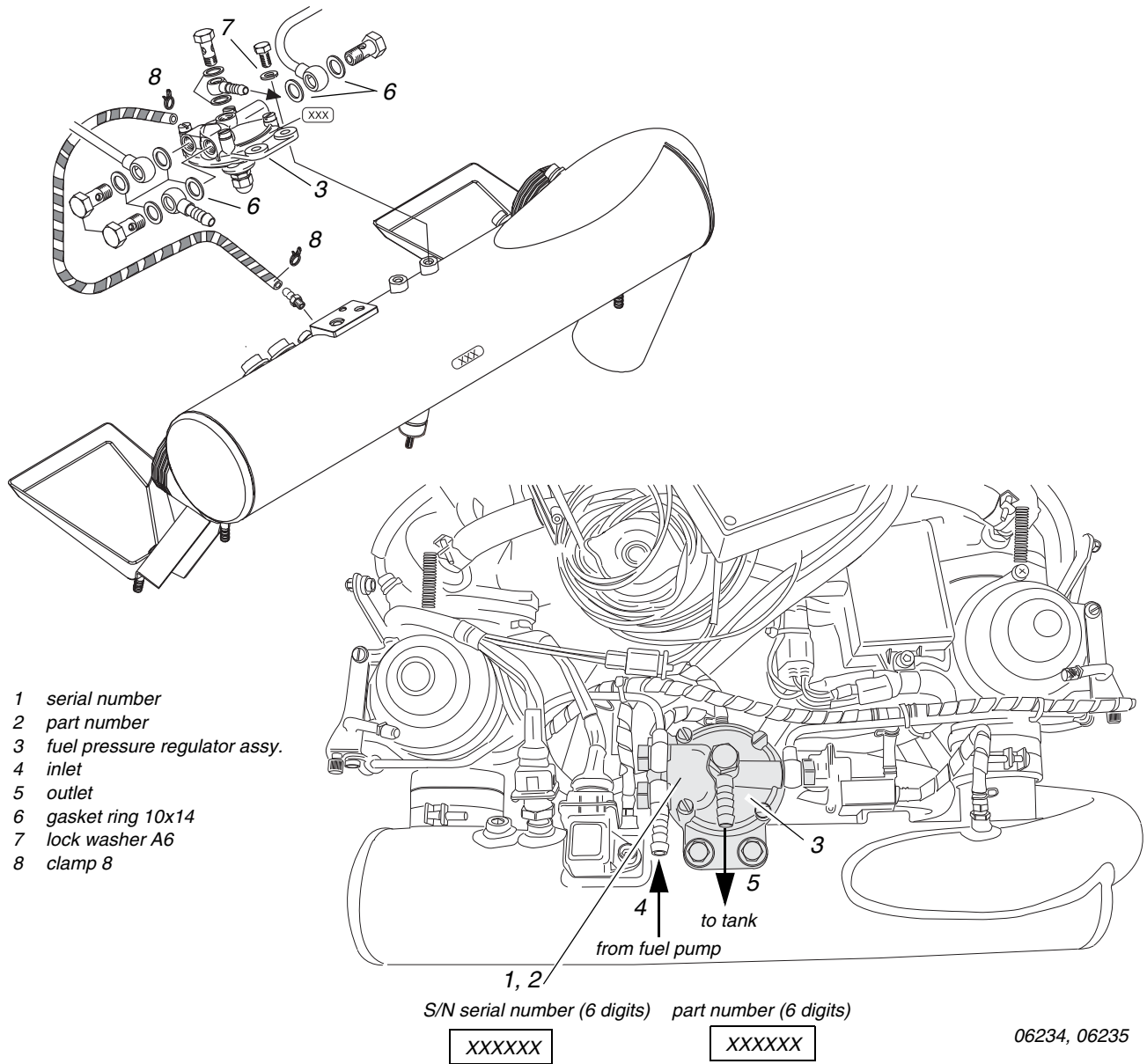
#### 3.4) Summary

These instructions (section 3) have to be conducted in accordance with compliance in section 1.5. The execution of the mandatory Service Bulletin must be confirmed in the logbook.

Approval of translation to best knowledge and judgement - in any case the original text in German language and the metric units (SI-system) are authoritative.

#### 4) Appendix

the following drawings should convey additional information:



**Fig. 1**

#### **Fuel pressure regulator assy.**

◆ **NOTE:** The illustrations in this document show the typical construction. They may not represent full detail or the exact shape of the parts which have the same or similar function. Exploded views are **not technical drawings** and are for reference only. For specific detail, refer to the current documents of the respective engine type.