

# SERVICE BULLETIN

## Software Update for Engine Control Unit (ECU) on ROTAX® Engine Type 915 i (Series)

ATA System: 76-00-00 Engine control

### MANDATORY

#### 1) Planning information

To obtain satisfactory results, procedures specified in this publication must be accomplished with accepted methods in accordance with prevailing legal regulations.

BRP-Rotax GmbH & Co KG cannot accept any responsibility for the quality of work performed in accomplishing the requirements of this publication.

##### 1.1) Applicability

All versions of ROTAX® engines types:

Engine type	Serial number
915 iSc A	from S/N 9127301 up to S/N 9127305 inclusive
915 iSc B	from S/N 9122510 up to S/N 9122523 inclusive

NOTE: Engines with serial numbers higher than the engines mentioned above have already been equipped with the latest version of ECU software.  
For relevant information, see the maintenance records and/or the logbook.

Engine type	New ECU part number
915 iSc A	864354
915 iSc B	864350

NOTE: Engines which have had the ECU replaced with the above part numbers during maintenance or overhaul are equipped with the latest version of ECU software.

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

In addition to this Service Bulletin the following Service Instructions must be observed and complied with:

- SI-912 i-018 / SI-915 i-004, "List of the approved Engine Control Unit (ECU) software and hardware configurations", current issue.
- SI-912 i-002 / SI-915 i-002, "B.U.D.S. Aircraft Installation Instruction", current issue.

##### 1.3) Reason

In the course of continuous development and standardization, ROTAX® releases a new ECU software version for Engine Type 915 i (Series). This software will improve the diagnostics for this engine type.

##### 1.4) Subject

Software Update for Engine Control Unit (ECU) on ROTAX® Engine Type 915 i (Series).

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## 1.5) Compliance

Checking of the correct ECU Software/Hardware configuration and, if necessary, the software update or "loading" of the ECU unit must be performed as per chapter 3 latest at the next scheduled 100 hour maintenance check.

See chapter 05-20-00 "Scheduled Maintenance Checks", section 09 "Engine Management" in the latest edition of the Maintenance Manual (Line Maintenance) for engine type ROTAX® 915 i Series.

If the engine is operated infrequently or not at all during the year, a check needs to be done every 12 months.

## 1.6) Approval

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

## 1.7) Labor time

Estimated labor hours:

- ECU removed from the aircraft - approx. 15 minutes per ECU unit.
- ECU installed in the aircraft - labor 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

Reading the ECU software version and/or loading of the ECU software.

## 1.11) References

In addition to this technical information refer to current issue of

- Illustrated Parts Catalog (IPC)
- Installation Manual (IM)
- Maintenance Manual Line (MML)
- Maintenance Manual Heavy (MMH)

NOTE: The status of the Manuals can be determined by checking the table of amendments. The 1<sup>st</sup> column of this table shows the revision status. Compare this number to the one listed on the ROTAX website:  
[www.flyrotax.com](http://www.flyrotax.com). Updates and current revisions can be downloaded for free.

## 1.12) Other Publications affected

None.

## 1.13) Interchangeability of parts

- Not affected

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## 2) Material Information

### 2.1) Material- cost and availability

Price and availability will be provided on request by ROTAX® Authorized Distributors or their independent Service Centers.

### 2.2) Company support information

Any possible support by BRP-Rotax will be provided on request by ROTAX® Authorized Distributors or their independent Service Centers.

### 2.3) Material requirement per engine

None.

### 2.4) Material requirement per spare part

None.

### 2.5) Rework of parts

None.

### 2.6) Special tooling/lubricants- /adhesives- /sealing compound- /price and availability

- Price and availability will be supplied on request by ROTAX® Authorized Distributors or their independent Service Centers:

Description	Qty/engine	Part no.
B.U.D.S. set Level 3 (Maintenance)	1 <sup>1)</sup>	864023
B.U.D.S. Aircraft Software (3.0.0. or higher)	1	864361
Service wiring harness assy.	1 <sup>2)</sup>	864280
Y-cable	1 <sup>3)</sup> 4)	
Software configuration ECU 915 iS A Series	1 <sup>5)</sup>	864087
Software configuration ECU 915 iS B Series	1 <sup>5)</sup>	864088
ECU-UPDATE LABEL 915 iS A	1	898804
ECU-UPDATE LABEL 915 iSc B	1	898808

**Table 1:**

1) For OEM/Distributor.

2) Only required for the loading process if the ECU has been removed from aircraft (disconnected from harness).

3) Only required if the aircraft has two separate D-Sub DB 9 Maintenance ports.

4) Specification according to latest edition of Maintenance Manual Heavy of engine type 915 i Series.

5) Program files to be loaded onto the relevant ECU.

### NOTICE

If using these special tools observe the manufacturers specifications.

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## 3) Accomplishment/Instructions

- ROTAX® reserves the right to make any amendments to existing documents, which might become necessary due to this standardization, at the time of next revision or issue.

NOTE: Before maintenance, review the entire documentation to make sure you have a complete understanding of the procedure and requirements.

### Accomplishment

All measures must be implemented and confirmed by at least one of the following persons or organizations:

- ROTAX® - Authorized Distributors or their independent Service Centers
- Persons approved by the respective Aviation Authority
- Persons with approved qualifications for the corresponding engine types. Only authorized persons (iRMT, Level Heavy Maintenance) are entitled to carry out this work.

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

### Safety notice



**WARNING**

Identifies an instruction which, if not followed, may cause serious injury or even fatal injury.



**CAUTION**

Identifies an instruction which, if not followed, may cause minor or moderate injury.

**NOTICE**

Identifies an instruction which, if not followed, may severely damage the engine or could void any warranty.

### ENVIRONMENTAL NOTE

Environmental notes give you tips on environmental protection.

NOTE: Indicates supplementary information which may be needed to fully complete or understand an instruction.

#### 3.1) Extract ECU Fault logs and Data logs

See latest Maintenance Manual Heavy for 915 i Series engines.

#### 3.2) Verifying current ECU and engine configuration

For instructions refer to SI-912 i-018 / SI-915 i-004, "List of the approved Engine Control Unit (ECU) software and hardware configuration", current issue.

#### 3.3) Identify valid software/hardware versions

For instructions refer to SI-912 i-018 / SI-915 i-004, "List of the approved Engine Control Unit (ECU) software and hardware configuration", current issue.

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### 3.4) Loading of ECU software version

See latest Maintenance Manual Heavy for 915 i Series engines. Make sure to solely load the latest software that fits the engine configuration according to chapter 3.3 (Identify valid software/hardware versions).

For ROTAX® 915 iSc A and 915 iS A load software configuration ECU 915 iS A 864087 (072-2357-005).

For ROTAX® 915 iSc B load software configuration ECU 915 iS B 864088 (072-2357-105).

### 3.5) Designation of ECU with new software version

Label the ECU at position 2 (Fig. 1) with the ECU Update Label part no. 898804 or 898808, depending on engine type.

### 3.6) Test run

Conduct test run. See chapter 12-20-00 of the latest Maintenance Manual Line for the respective engine type.

### 3.7) Summary

These instructions (section 3) have to be followed in accordance with the deadlines specified in section 1.5.

The execution of the mandatory Service Bulletin must be confirmed in the logbook.

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

Translation into other languages might be performed in the course of language localization but does not lie within ROTAX® scope of responsibility.

In any case the original text in English language and the metric units are authoritative.

### 3.8) Inquiries

Inquiries regarding this Service Bulletin should be sent to the ROTAX® Authorized Distributor of your area.

A list of all ROTAX® Authorized Distributors or their independent Service Centers is provided on [www.flyrotax.com](http://www.flyrotax.com).

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## 4) Appendix

The following drawings should convey additional information:

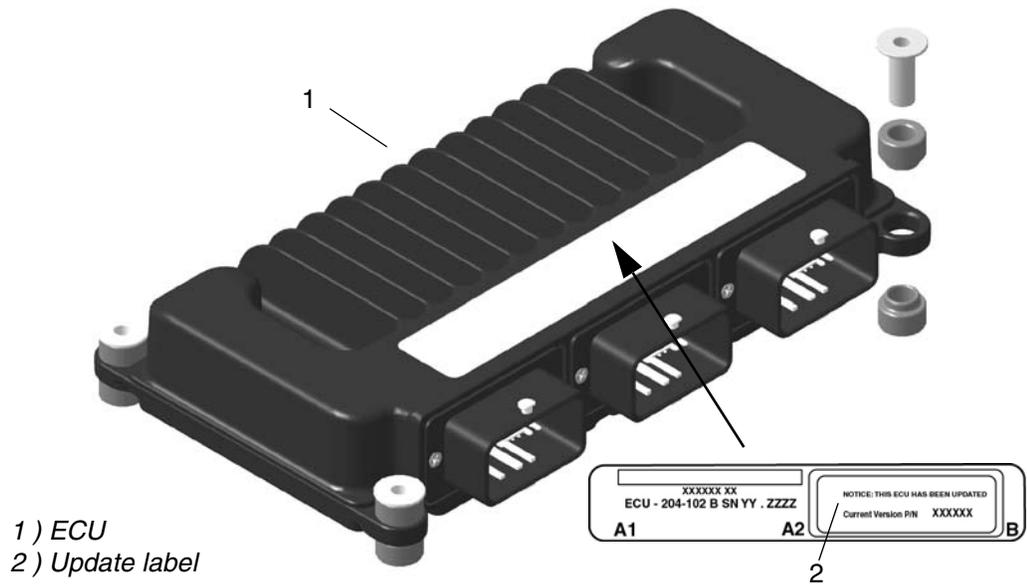


Fig. 1  
ECU

10111

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.