

## SERVICE INSTRUCTION

# Information on fuse box assy. modifications for ROTAX® Engine Type 912 i (Series)

ATA System: 76-10-00 Fuse box

### 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

Criterion A) Engine Serial Number:

Engine type	Serial number
912 iS	up to S/N 7703141 inclusive
912 iS Sport	from S/N 7704296 and higher.

NOTE: On engines with S/N lower than the ranges listed above, the new style fuse box can be retrofitted or installed in case of exchange or repair according to the instructions in section 3.

NOTE: It is NOT mandatory to retrofit engines with older fuse box.

Criterion B) Engine Spare Parts:

Part no.	Description	Serial number
881321	Fuse box packaged	from S/N 140015 and higher.

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

None.

#### 1.3) Reason

In the course of further development and standardization a new fuse box has been introduced. The new fuse box incorporates larger diameter grounding studs on the regulator B mounting plate (AC GND). Grounding studs have been increased in size from M4 x 1 to M6 x 1.

This increase does have an influence to the design of the aircraft wiring harness in case of replacement on ROTAX® 912 iS and ROTAX® 912 iS Sport engines equipped with the previous style of fuse box assy.

NOTE: The ring terminal connecting to the M6 stud with the airframe ground is not a part of the Engine Type Design and is not supplied by BRP-Rotax. The certification of the connector is the responsibility of the aircraft manufacturer and must be carried out jointly with the aircraft.

#### 1.4) Subject

Information on fuse box assy. modifications for ROTAX® Engine Type 912 i (Series).

# SERVICE INSTRUCTION

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## 1.5) Compliance

These maintenance instructions shall be considered in any maintenance events, retrofitting, repair and overhaul.



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) Labor time and credit

Estimated labor hours:

Engine installed in the aircraft - - - labor time will depend on airframe 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 modifications

No change.

## 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 that 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

- All parts are interchangeable

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# SERVICE INSTRUCTION

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## 2) Material Information

### 2.1) Material

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

### 2.2) Company support information

None.

### 2.3) Material requirement and credit per engine

parts requirement:

New part no.	Qty/ engine	Description	Old part no.	Application
881321	1	Fuse box wrapped up*	881320	Engine type 912 iS /iS Sport

\* Please contact your aircraft manufacturer for further support on material and instructions for this modification.

### 2.4) Material requirement and credit per spare part

None.

### 2.5) Rework of parts

None.

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

None.

# SERVICE INSTRUCTION

## 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® - Airworthiness representatives
- 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 Service) are entitled to carry out this work.
- Persons with type-specific training

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

NOTE: Please contact your aircraft manufacturer for further support on material and instructions for this modification.

### 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.

# SERVICE INSTRUCTION

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## 3.1) Installation - related information

Pay attention to the specifications of the latest version of the Installation Manual (IM) for the respective engine type, Chapter 24-00-00 section (Engine wiring harness) and Chapter 76-10-00 section (Fuse box assembly).

When retrofitting the new style fuse box assy. (part no. 881321) to an older engine, the connection to the aircraft harness must have its ground connectors replaced e.g. with larger M6 (1/4 inch) ring terminal and needs to be installed with e.g. washer and appropriate lock nut. See [Fig. 1](#).

NOTE: For this modification on the aircraft harness please contact your aircraft manufacturer for further support on material and exact instructions to perform this maintenance task.

## 3.2) Maintenance - related information

Pay attention to the specifications of the latest version of the Maintenance Manual Line (MML) and Heavy (MMH) for the respective engine type, Chapter 05-20-00 (Scheduled maintenance checks), Chapter 76-10-00 section (Fuse box installation) and Chapter 76-50-00 (Wiring harness).

## 3.3) Test run

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

## 3.4) Summary

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

The execution of the Service Instruction 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.

## 3.5) Inquiries

Inquiries regarding this Service Instruction 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).

# SERVICE INSTRUCTION

## 4) Appendix

The following drawings should convey additional information:

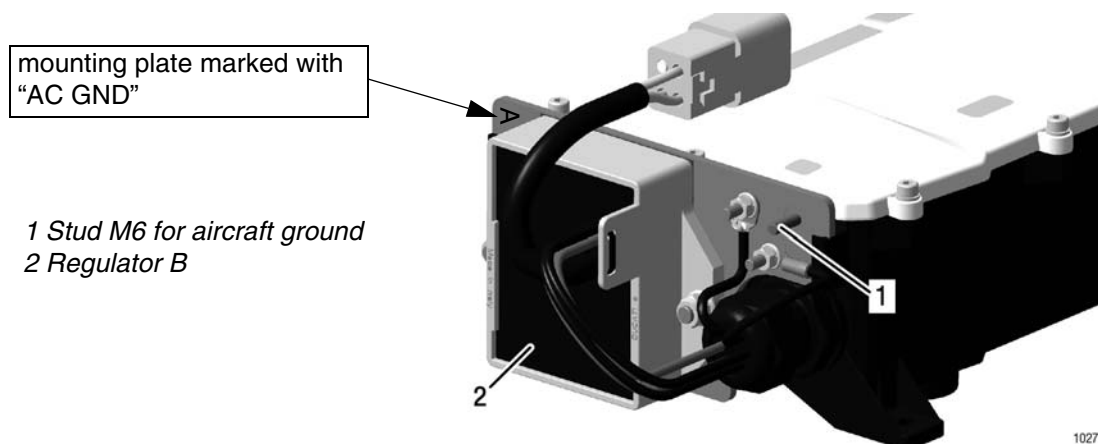


Fig. 1  
Fuse box regulator B

**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.