



SERVICE INSTRUCTION

Introduction of revised fuel pump assy. for ROTAX® Engine Type 912 i and 915 i (Series)

ATA System: 73-10-00 Fuel system

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 fuel pump assemblies of type:

Part number	Description	Serial number
889697	Fuel pump assy. UNF packaged (889696 + 2x 850620 + packaging)	from S/N 180500 and higher
889699	Fuel pump assy. METRIC packaged (889698 + 2x 850620 + packaging)	from S/N 180500 and higher

NOTE: If the aircraft manufacturer does use fuel pump assys other than the ROTAX® genuine type, the aircraft manufacturer must confirm the correct connector gasket is used on the fuel pump wiring harness connector.

1.2) Concurrent ASB/SB/SI and SL

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

Service Instruction-SI-912 i-015, title „Fuel pump service kit for ROTAX® Engine Type 912 i (Series)“, current issue.

1.3) Reason

With the introduction of the revised fuel pump assy. a new connector gasket is required. The new fuel pump assy. PACKAGED does contain these new connector gaskets to maintain full compatibility with the wiring harness.

1.4) Subject

Introduction of revised fuel pump assy. for ROTAX® Engine Type 912 i and 915 i (Series).

1.5) Compliance

NONE - For Information Only.

1.6) Approval

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

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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.

No labor credit will be provided for work performed for this part and accessory.

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)
- Maintenance Manual (MML) Line
- Maintenance Manual (MMH) Heavy

NOTE: The status of the Manuals can be determined by checking the table of amendments. The 1st column of this table shows the revision status. Compare this number to the one listed on the ROTAX® website:
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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2) Material Information

2.1) Material

Revised connector gaskets (**orange** in color) are provided with fuel pump assemblies listed in section 1.1.

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 and credit per engine

parts requirement for connector gasket replacement:

Part number	Qty/ engine	Description	Application / Remark
850620	2	Connector gasket	Wiring harness connectors Fuel pump 1/Fuel pump A and Fuel pump 2/Fuel pump B ; orange in color, new connector gasket

2.4) Material requirement and credit per spare part

None.

2.5) Rework of parts

None.

2.6) Special tooling/lubricants- /adhesives- /sealing compounds

None.

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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 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) Compatibility check at installation of a new fuel pump assy.

See [Fig. 1](#) to [Fig. 2](#).

NOTE: Fuel pump assemblies with serial number (see [Fig. 1](#)) **lower** than listed in section 1.1 can be connected regardless of connector gasket revision (or color) present.

Check wiring harness connectors Fuel Pump 1/Fuel Pump A and Fuel Pump 2/Fuel Pump B to identify the color of the connector gaskets. In order to connect fuel pump assemblies listed in section 1.1, connector gasket part number 850620 (**orange** in color) must be present.

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To compatibility check the following steps are necessary:

Step	Procedure
1	Remove the negative terminal of the battery.
2	Loosen 4 Allen screws M5x12 from the cover. Remove the cover.
3	Disconnect the wiring harness connectors from the fuel pumps (main, aux): - Lift the latches - See Fig. 2 - Unplug the wiring harness connectors
4	Check the color (orange must be present) of the wiring harness connector gasket. If wiring harness connector gaskets are of any other color, follow instructions in section 3.2 to replace with revised connector gaskets.

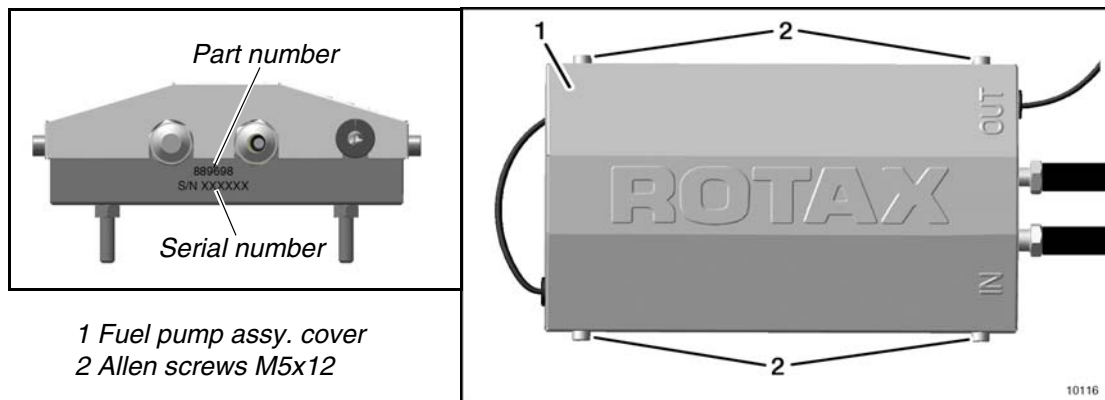


Fig. 1

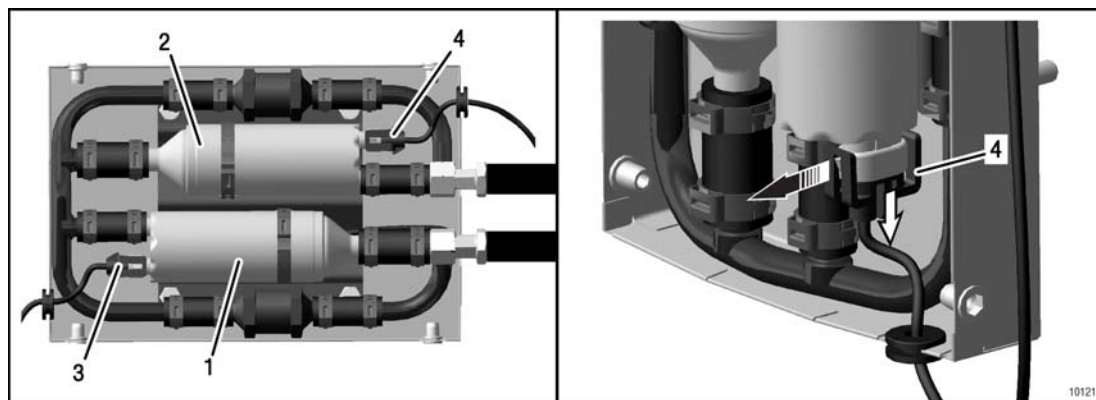


Fig. 2

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3.2) Instructions for replace with revised connector gasket

The following steps are necessary:

NOTE: Follows directions carefully to avoid damage to the connectors.
See Fig. 3.

Step	Procedure
5	Remove connector gasket (blue in color) from wiring harness connector Fuel Pump 1/Fuel Pump A and Fuel Pump 2/Fuel pump B .

- 1 Connector gasket
- 2 Wiring harness connector
Fuel pump 1/Fuel pump A
- 3 Wiring harness connector
Fuel pump 2/Fuel Pump B

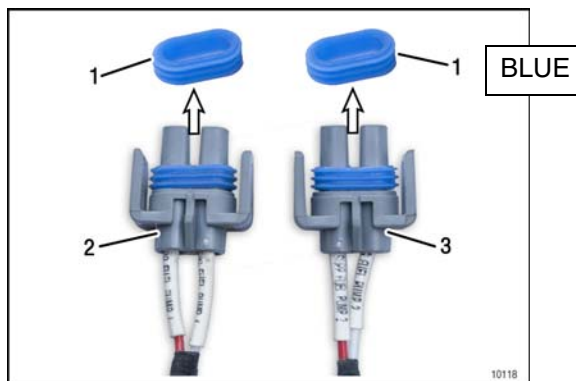


Fig. 3
Connectors gasket BLUE

See Fig. 4

Step	Procedure
6	Place new connector gasket (orange in color) over wire connector housing.

- 1 Connector gasket
- 2 Wiring harness connector
Fuel pump 1/Fuel pump A
- 3 Wiring harness connector
Fuel pump 2/Fuel Pump B

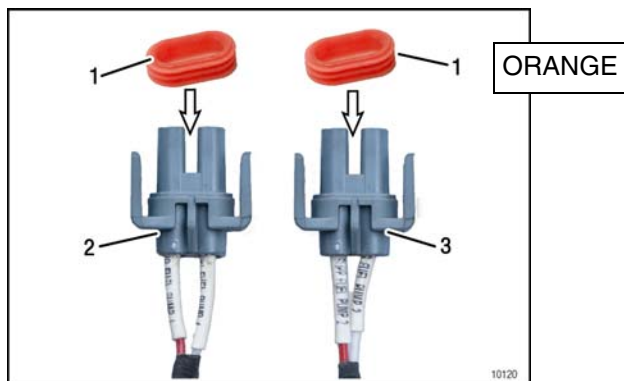


Fig. 4
Connectors gasket ORANGE

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

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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.

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.