

# SERVICE INSTRUCTION

## Cancelation of the 5-years change interval for fuel hoses (teflon hoses) for ROTAX® Engine Type 912 (Series)

ATA System: 73-00-00 Fuel system

### Symbols used:

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

#### General note



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



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



Denotes an instruction which if not followed, may severely damage the engine or could lead to suspension of warranty.

### ENVIRONMENTAL NOTE

Environmental notes give you tips on environmentally conscious behaviour.

NOTE: Information useful for better handling.

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

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

BRP-Powertrain GmbH & Co KG. cannot be responsible for the quality of work performed in accomplishing the requirements of this publication.

## 1) Planning information

### 1.1) Applicability

NOTE: All fuel hoses with part no. 874911, part no. 874337 and part no. 874347, as well as fuel hoses (teflon hoses) delivered as ROTAX® genuine spare parts are affected.

All versions of the engine type:

a) Engines:

Fuel hose assy. part no. 874911	
Engine type	Serial number
912 A	from S/N 4 410 728*
912 F	from S/N 4 412 926

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912 S	from S/N 4 923 459
912 UL	from S/N 4 408 332*
912 ULS	from S/N 5 648 154*
912 ULSFR	from S/N 6 374 049*

\* if the engine is delivered with fuel hose assy.

All fuel hose assy. with part no. 874911 from serial number S/N SL07-056-1.

b) Engines:

Fuel hose assy. part no. 874337 and part no. 874347	
Engine type	Serial number
912 A	from S/N 4 410 977*
912 F	from S/N 4 413 018
912 S	from S/N 4 924 497
912 ULS	from S/N 6 781 224*

\* if the engine is delivered with suction pipe and pressure pipe of the fuel pump.

All fuel hose assy. with the part no. 874347 from serial number S/N SL12-657M-7.

All fuel hose assy. with the part no. 874337 from serial number S/N SL12-1056-002.

## 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-912-020, "Running modifications", current issue.

## 1.3) Reason

In the course of continuous development an early replacement (before TBO) of the teflon hoses is not necessary. These teflon hoses are subject to only one periodic maintenance check and must be replaced at the time of overhaul.

## 1.4) Subject

Cancellation of the 5-years change interval for fuel hoses (teflon hoses) for ROTAX® engine type 912 (Series).

## 1.5) Compliance

NONE - For Information Only

NOTE: All non- teflon fuel hoses still have to be replaced every 5 years. These can be identified by their additionally installed fire protection hoses.

## 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 time:

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

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**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

- Illustrated Parts Catalog (IPC)
- Maintenance Manual (MM) Line

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 the are 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**

not affected

**1.13) Interchangeability of parts**

not affected

**2) Material Information****2.1) Material- cost and availability**

Price, availability and any possible support will be provided on request by ROTAX® Authorized Distributors or their Service Center.

**2.2) Company support information**

none

**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/lubricant-/adhesives-/sealing compound**

none

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## 3) Instructions/Accomplishment

**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 taken and confirmed by at least one of the following persons or organizations:

- ROTAX® - Airworthiness representative
- ROTAX® - Distributors or their Service Center
- Persons approved by the respective Aviation Authority
- Persons with type-specific training (applicable only for none-certified engines)

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

### Safety notice

#### 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.

#### NOTICE

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.

### 3.1) Instructions

Maintenance inspection:

**NOTE:** The 5- years change time limit is not effective for teflon hoses (fuel hoses/ fuel hose assy). The replacement of the fuel hoses has to be performed as part of an overhaul.

At the scheduled maintenance the following tasks, are necessary for the check in accordance with the relevant Maintenance Manual:

Step	Procedure
1	Inspect fuel hoses for damage.
2	Inspect fuel hoses for hardening as a result of heat.
3	Inspect fuel hoses for porosity.
4	Inspect fuel hoses for leaks.
5	Fuel hoses may not have kinks and tight bends.
6	Fuel hoses may not be twisted.

#### NOTICE

If you notice damage, porosity etc. then you need to replace the fuel hose.

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

### 3.2) Test run

Conduct test run including ignition check and leakage test.

### 3.3) Summary

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

### 3.4) Enquiries

Enquiries regarding this Service Instruction should be sent to the ROTAX® authorized distributor of your area. A list of all distributors is provided on [www.FLYROTAX.com](http://www.FLYROTAX.com).

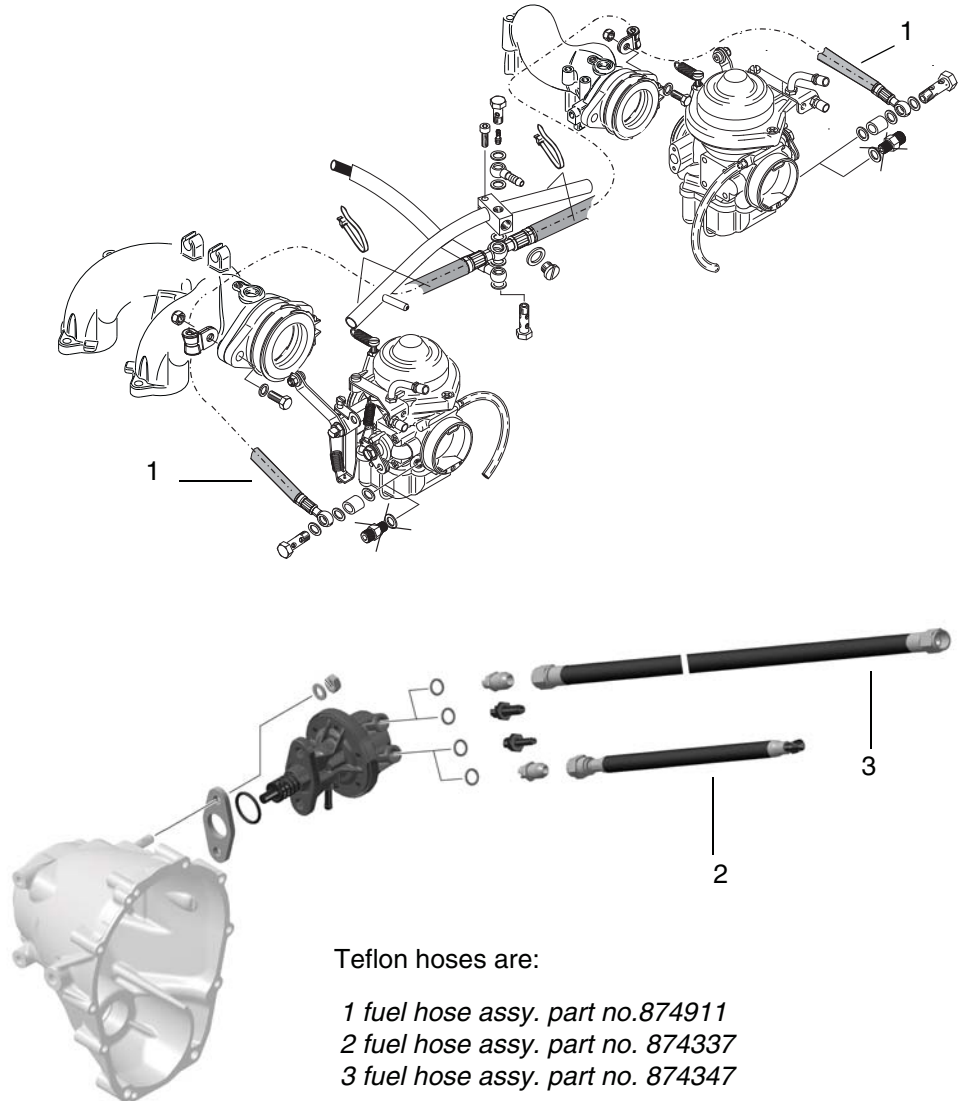
Approval of translation to best knowledge and judgement-in any case the original text in German language and the metric units (SI-system) are authoritative.

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## 4) Appendix

The following illustrations should convey additional information:



Teflon hoses are:

- 1 fuel hose assy. part no.874911
- 2 fuel hose assy. part no. 874337
- 3 fuel hose assy. part no. 874347

**NOTE:** All fuel hoses assy. are clearly identified by a serial number and part number shown on the label.

*Fig. 1*  
*fuel hoses*

08180, 08254

**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.

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