

SERVICE BULLETIN

CHECKING OR REPLACEMENT OF OIL FILTER FOR ROTAX® ENGINE TYPE 912 AND 914 (SERIES)

SB-912-017 UL R1

SB-914-037 UL

OPTIONAL

Repeating symbols:

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.

1) Planning information

1.1) Engines affected

All versions of the engine type:

- 912 UL to S/N 4,401.434

- 914 UL to S/N 4,417.599

1.2) Other publications affected

The following documents must be replaced as a consequence of this Service Bulletins and will become invalid therefore.

- SI-12-1996, "Oil filter", latest edition.

For complete instructions and compliance to this Service Bulletin refer to Service Bulletin-SB-912-017/SB-914-037, 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:

- 912 A to S/N 4,410.157
- 912 F to S/N 4,412.699
- 914 F to S/N 4,420.010

1.2) Concurrent ASB/SB/SI and SL

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

- Service Instructions-SI-27-1997, title "Oil level check" current issue.

1.3) Reason

Under certain unfavourable conditions, which may be caused by vibrations and oscillation, certain filter designs may malfunction due to the design of the internal spring which could wear through the filter shell.

1.4) Subject

Checking or replacement of oil filter (brand **KNECHT OC 11**, ROTAX® part no. 825700) with **black** filter shell. **Filters of a different colour or other than ROTAX® original equipment, are also recommended for close inspection and compliance with this Service Information.**

1.5) Compliance

- Before the next flight check the oil filter and if there is any indication of damage, exchange immediately.
- Exchange the oil filter at the latest on the next 100h check or next oil change.

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

1.6) Approval

The technical content is approved under the authority of DOA Nr. 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

- engine data sheet
- power, torque and fuel consumption curves
- Illustrated Parts Catalog (IPC)
- Installation Manual (IM)
- Installation Instructions
- all relevant Service Bulletins (SB)
- all relevant Service Instructions (SI)
- Maintenance Manual (MM)

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

1.12) Other publications affected

The following documentations must be replaced as a consequence of this Service Bulletins and will become invalid therefore.

Description	p/n	Issue	Date	Rev.	Chapter	Page
SB-912-017	Initial issue	0	1996 12 30	0		

1.13) Interchangeability of parts

- All parts are interchangeable

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

none

2.3) Material requirement per engine

parts requirement:

Fig.no.	New p/n	Qty/engine	Description	Old p/n	Application
(1)	825703	1	oil filter	825700	oil circuit

2.4) Material requirement per spare part

none

2.5) Rework of parts

none

2.6) Special tooling/lubricant-/adhesives-/sealing compound - Price and availability

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

parts requirement:

Fig.no.	p/n	Qty/engine	Description	Old p/n	Application
	-	as required	engine oil		oil filter

3) Accomplishment / Instructions

Accomplishment

Incorporation into the respective documentation

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) Inspection of filter shell

(see fig. 1)

Check crown of filter for physical damage and possible bulging (2) caused by the inner spring (inherent on some filter designs).

3.2) Exchanges of the oil filter for new approved version

a) Exchange at the next 100h-check or next oil change:

■ **CAUTION:** Use only oil as specified in the current Operators Manual, and genuine ROTAX® oil filter, or suitable equivalent.

1. Exchange or fitting of oil filter according to Maintenance Manual for ROTAX 912 F, chapter 12.3.8 and 12.3.9.

b) Exchange immediately in the event of any damage:

▲ **WARNING:** Exchange on the cold engine only - danger of scalding among other hazards!

1. Remove oil filter with oil filter wrench part no. 877620.

◆ **NOTE:** Disposal of oil and filter as per local regulations.

2. Fitting of the new oil filter according to Maintenance Manual for ROTAX 912/914, current issue.

3. Replenish with fresh oil up to correct level in oil tank. See SI-27-1997, current issue.

- Restore aircraft to original operating configuration.

- Connect negative terminal of aircraft battery.

3.3) Test run

Conduct test run including ignition check and leakage test.

■ **CAUTION:** After test run inspect tight fit of oil filter.

3.4) Summary

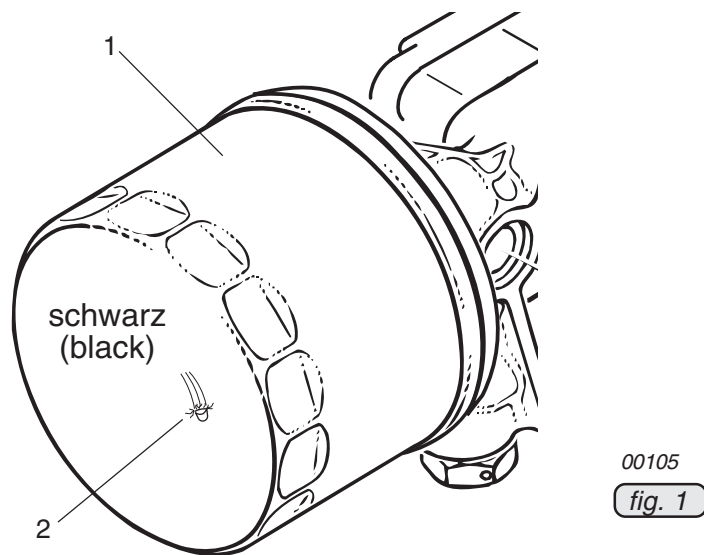
These instructions (section 3) have to be conducted in accordance with compliance in section 1.5.

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:



◆ 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.
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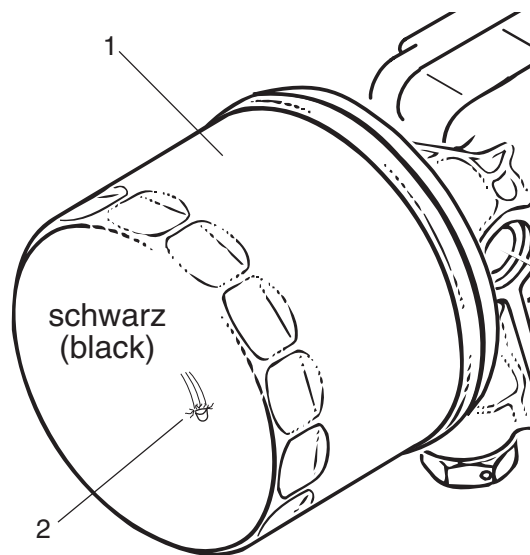
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00105

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