ROTAX®
AIRCRAFT ENGINES

SERVICE BULLETIN

INSPECTION OF THE OIL FILTER PART NO. 825701 FOR ROTAX® ENGINE TYPE 912 AND 914 (SERIES)

SB-912-045
SB-914-030

MANDATORY

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 A from S/N 4,410.636 to S/N 4,410.646
- 912 F from S/N 4,412.876 to S/N 4,412.877
- 912 S from S/N 4,923.083 to S/N 4,923.094
- 914 F from S/N 4,420.430 to S/N 4,420.438

Also affected, are all engines equipped with oil filter part no. 825701, shipped from ROTAX® as a spare part between July 8th 2004 to October 07th 2004 at maintenance event.

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-04-1997 " Venting of lubrication system " current issue.
- SI-18-1997 " Selection of motor oil and general operating tips " current issue.
- SI-27-1997 " Oil level check " current issue.
- SI-912-010 " Oil change " current issue.
- SI-914-011 " Oil change " current issue.

1.3) Reason

Because of a dimensional tolerances error in production, some oil filters with a low projection of sealing ring were distributed. This fact could result in leakage between oil filter and oil pump housing.

▲WARNING: Rectify any of the aforementioned without delay.

1.4) Subject

Inspection of the oil filter part no. 825701 ROTAX® engine type 912 (Series) and 914 (Series)

1.5) Compliance

- Before the next flight if the Alert Service Bulletin has not been carried out yet.

▲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.

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1.7) Manpower

Estimated man-hours:

Engine installed in the aircraft - - -manpower time will depend on installation and thus, 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

- Operator's Manual (OM)
- Illustrated Parts Catalog (IPC)
- all relevant Service Bulletins (SB)
- all relevant Service Instructions (SI)
- Maintenance Manual (MM)

1.12) Other publications affected

None

1.13) Interchangeability of parts

- All defective oil filters which cannot be used must be returned F.O.B. to a ROTAX® Authorized Distributor or Service Center.

2) Material Information

2.1) Material - cost and availability

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

2.2) Company support information

- Redundant parts must be returned F.O.B. to a ROTAX® Authorized Distributor or Service Center.
- The damages or costs incurred, namely with respect to shipping costs, down time, loss of income, telephone costs or cost of conversion to other engine versions or additional work, including simultaneous overhaul, are not covered and will not be borne or reimbursed by ROTAX® .

2.3) Material requirement per spare part

parts requirement:

Fig.no.	New part no.	Qty/engine	Description	Old part no.	Application
	825701	1	oil filter	825701	oil system

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

Parts requirement:

Fig.no.	part no.	Qty/engine	Description	Old part no.	Application
	-	1	feeler gage	-	

■ CAUTION: In using these special tools observe the manufacturer´s specifications.

3) Accomplishment / Instructions

Accomplishment

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 (namely lock tabs, self-locking fasteners) 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 oil filter part no. 825701 in stock

(see fig. 1)

- Place oil filter (1) on an even base plate (2).
- Press down oil filter by thumb in order to fully fit sealing ring into its groove.
- With pressure still applied measure the projection of sealing ring (in this case the gap between base plate and oil filter bead) with a feeler gage (3). If the projection is smaller than **1,0 mm** (0.04 in.), otherwise replace the oil filter immediately.

3.2) Inspection of oil filter part no. 825701 installed on engine

(see fig. 2)

- Measure the projection of sealing ring (in this case the gap between oil pump housing and oil filter bead) with a feeler gage (3).
  If the projection is smaller than **0,2 mm** (0.008 in.), replace the oil filter immediately.
- 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.

3.4) Summary

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

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

4) Appendix

The following drawings should provide additional information:

Inspection
of oil filters in stock

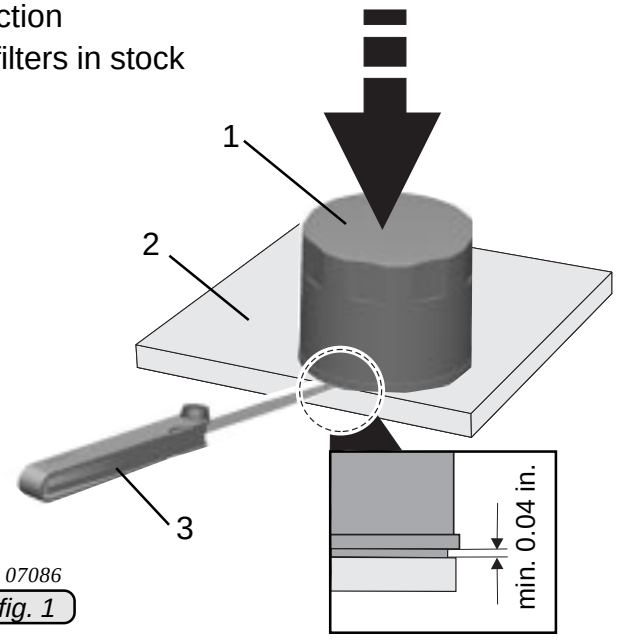

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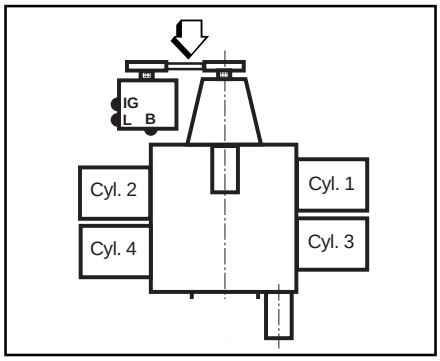
fig. 1



1 oil filter
2 base plate
3 feeler gage
4 oil pump housing

Inspection
on engine

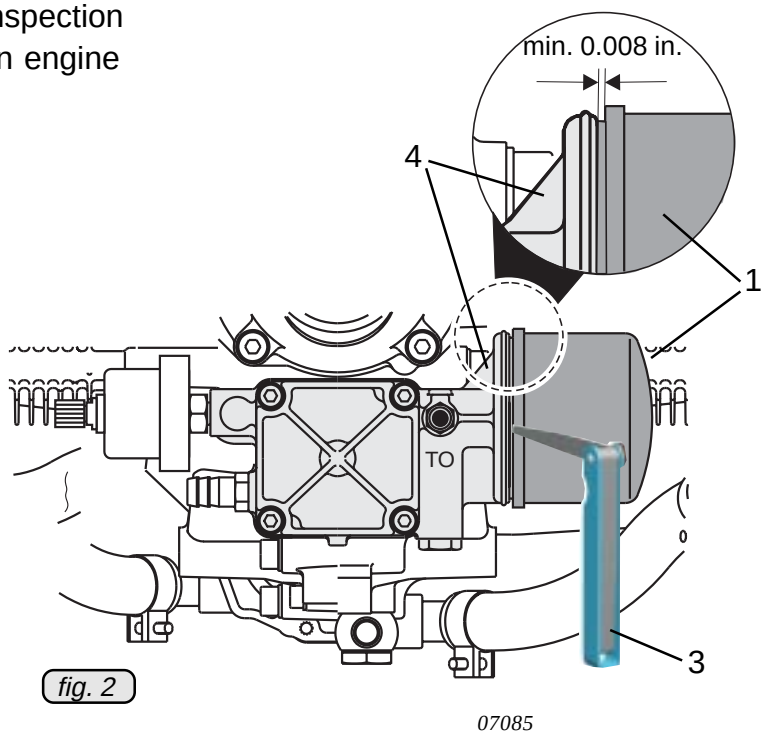


fig. 2

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◆ 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.