



SERVICE BULLETIN

INSTALLATION OF REDUCED NOISE EMISSION MUFFLER FOR ROTAX® ENGINE TYPE 914F (SERIES) SB-914-006 R1

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:

- 914 F (Series) from S/N 4,420.002 to S/N 4,420.371

if they should be equipped with the genuine ROTAX® muffler part no. 979402. If muffler has been modified for your aircraft installation, please contact your aircraft builder. On engines with S/N higher than those listed above the muffler (part no. 979402) was already fitted in serial production.

1.2) Concurrent ASB/SB/SI and SL

None

1.3) Reason

By reason of installation circumstances, application, zone of mission and its associated legal requirements it may be necessary to use a muffler of reduced noise emission.

1.4) Subject

Installation of reduced noise emission muffler for ROTAX® engine type 914 (Series).

1.5) Compliance

At customer's request.

1.6) Approval

Not required

1.7) Manpower

None

1.8) Mass data

Change of weight - - - see 1.13

Moment of inertia - - - unaffected.

1.9) Electrical load data

No change

1.10) Software accomplishment summary

No change

d01679

OCTOBER 2002

Rev. 1

Copyright - ROTAX®

SB-914-006

page 1 of 4

1.11) References

In addition to this technical information refer to current issue of

- Illustrated Parts Catalog (IPC)
- Installation Manual (IM) and Check list
- Maintenance Manual (MM)

1.12) Other publications affected

None

1.13) Interchangeability of parts

At exchange take care of the following:

Differences in weight and dimentions compared to muffler assembly part no. 979401.

- Weight: weight reduction of approx. 300g
- Outline dimensions: The difference is the overall length of the muffler. Length reduction from 330 mm (12.99 in.) (standard muffler part no. 979401) to 270 mm (10.63 in.) (part no. 979402), see fig. 1. Be careful to consider the changed exhaust tail pipe position.

Differences in weight and dimentions compared to muffler assembly part no. 979405.

- Weight: weight reduction of approx. 30g
- Outline dimensions: The difference is the overall lenght of the muffler. Length increase from 265 mm (10.43 in.)(standard muffler part no. 979405) to 270 mm (10.63 in.)(part no. 979402), see fig. 1. Be careful to consider the changed exhaust tail pipe position.

◆ NOTE: The muffler part no. 979402 is supply with a serial number.

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)	979402	1	muffler assembly	979401/979405	exhaust system ROTAX [®] 914

2.4) Rework of parts

None

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

None

3) Accomplishment / Instructions

Accomplishment

All the measurements 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:** Carry out work on a cold engine only.

▲ **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) Instructions

(see fig. 1)

3.1.1) Removal of the muffler part no. 979401 or part no. 979405 (optional)

- Removal of the serial muffler as per Maintenance Manual 914 F, chapt. 13.5.1.

3.1.2) Installation of the muffler

- Installation of the new muffler (part no. 979402) as per Maintenance Manual 914 F, chapter 13.5.3.
- Visual check of engine. See Maintenance Manual 914 F, chapter 12.3.2.
- 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.

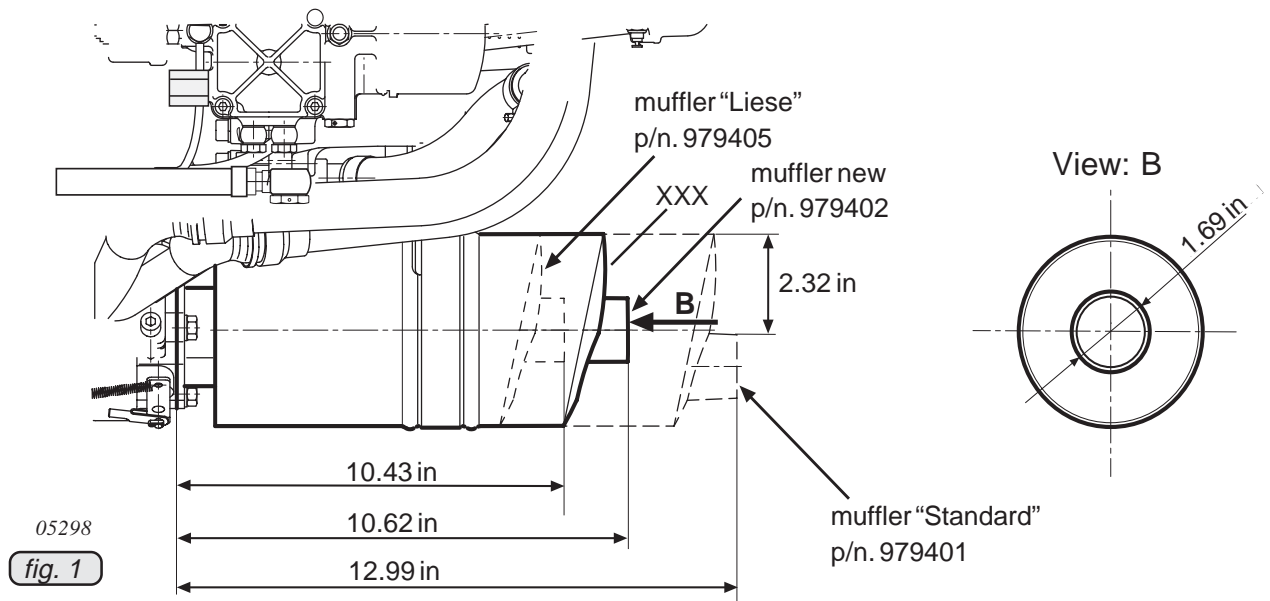
3.3) Summary

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

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:



XXX position for part no. and S/N

◆ 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.