

Inspection of crankcase halves for correct matching for ROTAX® 582 UL (Series)

ATA System: 72-20-00 Crankcase

MANDATORY

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 versions of ROTAX® engine types:

Engine type	Serial number
582 UL	from S/N 9138679 up to and including S/N 9138695 / S/N 9138697 / 9138708 / 9138709 / from S/N 9138711 up to and including S/N 9138716 / from S/N 9138722 up to and including S/N 9138739 / from S/N 9138742 up to and including S/N 9138771

1.2) Concurrent ASB/SB/SI and SL

None.

1.3) Reason

Due to a deviation in the manufacturing process, a limited number of engines were assembled with non- matching crankcase halves.

1.4) Subject

Inspection of crankcase halves for correct matching for ROTAX® Engine Type 582 UL (Series).

1.5) Compliance

- Before next flight
- On undelivered engines/spare parts prior to delivery
- Before the initial installation of engine and/or spare parts



WARNING

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

These instructions shall be considered at any maintenance events, retrofitting, repair and overhaul.

1.6) Approval

Not required.

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1.7) Labor time

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.

engine removed from the aircraft - - - 0.5 h.

A labor credit will be provided for work performed by a technician with current applicable iRMT rating.

Work performed	iRMT rating required	Labor credit
Inspection for correct matching and a logbook entry as per Chapter 3 (per engine)	iRMT Maintenance Line	0.5 h

To apply for labor credit, contact your ROTAX® Authorized Distributor or their independent Service Centers.

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

- in general Illustrated Parts Catalog (IPC) and in particular:
Chapter 72-20-00
- in general Maintenance Manual Heavy (MMH) and in particular:
Chapter 72-20-00

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

- 582 UL engines that have non-matched crankcase halves are unserviceable and must be returned to your ROTAX® authorized distributors or their independent Service Centers

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2) Material Information

2.1) Material

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
- Shipping costs, downtime costs, loss of income, telephone costs etc. or costs of conversion to other engine versions or additional work, as for instance simultaneous engine overhauls are not covered in this scope and will not be borne or reimbursed by ROTAX®

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/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® - Airworthiness representatives
- ROTAX® - Authorized Distributors or their independent Service Centers
- Persons approved by the respective Aviation Authorities
- Persons with approved qualifications for the corresponding engine types. Only authorized persons (iRMT, Level Line Maintenance Operator (at preflight check) are entitled to carry out this work
- Persons with type-specific training

NOTE: Indicates supplementary information which may be needed to fully complete or understand an instruction.



All work has to be performed in accordance with the relevant ROTAX® Instructions for Continued Airworthiness (ICA) of the respective engine type.

General

Further material on general inspection, maintenance and repair can also be found in relevant Advisory Circular AC 43.13 from FAA.

Advisory Circular

The Advisory Circular (AC) contains maintenance methods, techniques and practices.

Step	Procedure
1	Check the criteria given on page 1, section 1.1, if the aircraft engine is affected by this SB.
2	Check the engine logbook and maintenance documentation, if this SB has already been accomplished.

3.1) Illustrated Parts Catalog - related information



See Chapter 72-20-00 of the latest Illustrated Parts Catalog (IPC) for the respective engine type.

3.2) Maintenance (Heavy) - related information

To inspect for correct match of crankcase halves, the following steps are necessary:

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See Fig. 1

Step	Procedure
1	Check the PTO end of the crankcase, water pump side. Here the crankcase is signed with a consecutive number code.
2	This number code must be the same on both crankcase halves.

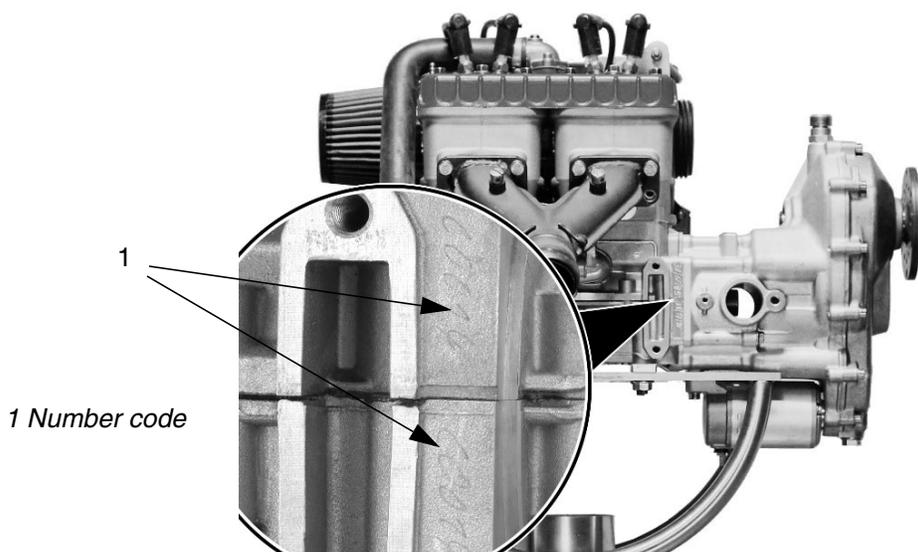


Fig. 1

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Step	Procedure
3	If the numbers do not match, contact your local ROTAX® Authorized Distributors or their independent Service Centers for immediate engine replacement.
4	If the number code matches, no further work is necessary.

3.3) Finishing work

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

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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 mandatory Service Bulletin 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 Bulletin 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 <https://dealerlocator.flyrotax.com>.