



SERVICE INSTRUCTION

Ignition check for ROTAX® Engine Type 914 (Series)

ATA System: 74-00-00 Ignition unit

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
914 F	all
914 UL	all

1.2) Concurrent ASB/SB/SI and SL

None.

1.3) Reason

Field experience has shown that at the ignition check under certain conditions, influences such as temperature, humidity, fuel/air mixture ratio and propeller pitch may cause a higher rpm drop than specified.

NOTE: This will be incorporated in the next revision of the relevant ROTAX® Aircraft Engine Operators Manual. It is the aircraft manufacturer's responsibility to evaluate the possible relevance of this change for the entire system, the Pilot Operating Handbook, checklists and the certification of the aircraft. For more information please contact your aircraft manufacturer.

1.4) Subject

Ignition check for ROTAX® Engine type 914 (Series).

1.5) Compliance

- During pre-flight inspection or prior to take-off

1.6) Approval

The technical content of this document is approved under the authority of DOA ref. EASA.21J.048.

1.7) Labor time and credit

None.

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.

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1.11) References

In addition to this technical information refer to current issue of

- Operators Manual (OM)

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

- Not affected

2) Material Information

2.1) Material

None.

2.2) Company support information

None.

2.3) Material requirement and credit per engine

None.

2.4) Material requirement and credit 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) 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.

3.1) Instructions

After engine warm-up and prior to take-off, check the two ignition circuits at 4000 rpm (approx. 1700 rpm propeller).

NOTE: The propeller speed depends upon the actual reduction ratio.

Step	Procedure
1	Speed (engine rpm) drop with only one ignition circuit must not exceed 500 rpm (approx. 210 rpm propeller).
2	150 rpm (approx. 65 rpm propeller) max. difference of speed (engine rpm) by use of either circuit, A or B.



Continue with further pre-flight checks as per Operators Manual for the engine type 914 and any additional checks required by the aircraft manufacturer documentation.

3.2) Summary

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

The execution of the Service Instruction 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.

3.3) Inquiries

Inquiries regarding this Service Instruction 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 www.flyrotax.com.

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