Safety Alert
Checking of the Crankshaft Journal for ROTAX Engine Type 912 and 914
SA-LTUL-CT__-03
SA-LTUL-CT2K-03
SA-LTUL-CTSW-05
SA-LTUL-CTLS-01
SA-LTUL-CTSL-01

I List of Revisions

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II General
Signatures for generation / verification / approval see subsequent page.
Cover page and signature page only serve internal purposes.
Distribution of this document shall only be done without cover page and signature page.
## III Signatures

Select and complete applicable disciplines and provide signatures:

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Subsequent CVE signature confirms that all selections above were done correct and that verification with production has been completed with acceptable result:

| Compliance Verification (CVE) | COSM / ICA | Yes | Sergii Pylypenko | 17 Nov. 2011 |
| Approval (HoA)                | --         | Yes | Oliver Reinhardt | 18 Nov. 2011 |
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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 aircraft or could lead to suspension of warranty.
● Note: Information useful for better handling.

1 Planning Information

1.1 Affected Aircraft
Type: CT
Model: CT; CT2K; CTSW; CTLS; CT Supralight
Serial Number: Verification if the aircraft is equipped with an affected engine or spare part as per Rotax Alert SB [1]: All S/N.
Conduct of the referenced Rotax Alert SB [1]: Those S/N that are either equipped with an engine S/N identified as affected in [1], or that have received affected spare parts identified in [1].

Applicable Countries: Not limited

1.2 Concurrent Documents

1.3 Reason
According to the information from the engine manufacturer ROTAX: “Due to a deviation in the manufacturing process some crankshafts may have a crack formation occur on the power take off side. These cracks can cause a breakage of the crankshaft support and lead to engine stoppage.”
1.4 **Subject**
Check of the crankshaft journal (power take off side) for ROTAX engine 912 and 914 (series) according to [1].

1.5 **Compliance**
According to [1]: Required before next flight, but at latest before 01 January 2012. The checking of crankshaft journal (power take off side) identified by the engine serial number (S/N) listed in section 1.1) of [1] must be conducted according to the instructions in section 3) of [1].

- **Note:** According to [1]: If a ferry flight is required, a magnetic plug check prior to next flight must be conducted (see latest applicable Rotax Maintenance Manual Line Chapter 12-20-00 Check of magnetic plug). If no deviation from normal operation (chips, excess metal filings) is found continued flight is allowed for max. 4 hours in operation, but at latest before 01. January 2012.

- **Note:** Flight Design is forwarding this information originated by the engine manufacturer by means of this SA. With this SA the Rotax Alert SB is set mandatory for engines installed in the listed Flight Design aircraft.

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

1.6 **Approval**
Not applicable

1.7 **Type of Maintenance**
Heavy

1.8 **Personnel Qualifications**
- Identification if the aircraft is equipped with an affected engine or engine spare part: Owner / Operator.
- Conduct of the referenced Rotax Alert SB: Refer to [1], Section 3).

1.9 **Release to Service**
Conduct of this SA must be logged in the aircraft log book with date and signature of the responsible person according to the national regulations.

1.10 **Weight and Balance**
Not applicable

1.11 **References**

Latest issues of:
1.12 Superseded Documents
- none -

1.13 Contact Details
For further information on conduct of this SA, or to report any Safety of Flight or Service Difficulty issues contact your Distributor responsible for your country. Your Distributor can be located via the Flight Design website: www.flightdesign.com under “Dealer Location”.
In cases where the local distributor is not known or available contact Flight Design GmbH directly: airworthiness@flightdesign.com.

1.14 Disclaimer
This Safety Alert has been generated with utmost care. Nevertheless errors and misunderstandings can never be fully excluded. In case of any doubts the applicant of this Safety Alert is requested to contact Flight Design immediately to clarify the issue.

2 Resources

2.1 Parts
Refer to [1]

2.2 Materials
Refer to [1]

2.3 Tools
Refer to [1]

2.4 Special tools
Refer to [1]

2.5 Manpower
Refer to [1]

2.6 Cost
Refer to [1]
3 Instructions

3.1 Accomplishment
Verify if one of the two is true:
- the aircraft is equipped with one of the affected engines as per [1] 1.1).
- the engine in the aircraft, regardless of engine S/N, is equipped with one of the affected
  spare part crankshafts as per [1] 1.1) as a consequence of a maintenance or overhaul
  event.

When one of the above is true, compliance full compliance must be shown with the Rotax Alert
SB [1], under all provisions provided in [1].

When none of the above is true, the Alert SB of Rotax must not be complied with.
In case of doubt contact your nearest authorized ROTAX aircraft engine distributor.

3.2 Documentation
Conduct of this Safety Alert must be logged in the aircraft log book with date and signature of the
responsible Person conducting the inspection. The entry must include the following information:
- Identified engine S/N
- Spare part crankshaft S/N (if applicable)
- Rotax Alert SB [1] is applicable – yes or no
- Documentation of the conduct of the Rotax Alert SB [1] (when applicable)

4 Appendix

4.1 Changes to Previous Revision
Original Issue – no changes

4.2 Feedback Template
No specific feedback required