Service Alert

Engine and Propeller Gearbox Inspection

SA-ASTM-F2-04

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:	F2
Model:	F2-LSA
Serial Number:	T-23-08-01 and T-25-01-04
Applicable Countries:	USA
Important note:	The two listed serial numbers are the aircraft that has been manufactured with the affected engines and gear boxes. All other aircraft serial numbers are affected too in the case the engine or gear box was replaced by a spare part.

1.2. Concurrent Documents

none

1.3. Reason

Rotax has issued an alert service bulletin, ASB-2026-001R00, stating the following reason:

BRP-Rotax GmbH & Co KG has identified isolated cases where the oil spray nozzle and the M7x16 hexagon screws securing the propeller shaft bearing in the propeller gearbox were not installed as defined by the approved type design. Investigation has determined that this condition is the result of a deviation from the specified assembly process. The missing screws may allow axial displacement of the propeller shaft bearing. This condition can result in a loss of oil and in a potential in-flight engine shutdown; however, the propeller shaft cannot be pulled out of the gearbox housing.

1.4. Subject

Inspection of the propeller gearbox for ROTAX® 912, 914 and 912 i (Series) Aircraft Engines.

1.5. Compliance

Implementation of this service alert is required for the aircraft serial numbers listed above. Those have been identified as having the gearbox and the engine installed according to the engine manufacturer list provided in the ASB_A-2026-001R00.

1.6. Approval

This SA is approved by the aircraft manufacturer i.a.w. ASTM F3198 for conduct on aircraft as defined in 1.1. Subsequent to complete and correct conduct of this SA, the aircraft will still meet the requirements of the applicable ASTM design and performance specification.

1.7. Type of Maintenance

Heavy

1.8. Personnel Qualifications

For US LSA aircraft: Repairman, Light Sport Aircraft-Maintenance (RLSA-M) – holds a repairman certificate (light sport aircraft) with a maintenance rating, A&P, IA or an FAA repair station.

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 national regulations.

1.10. Weight and Balance

The effect on empty aircraft weight and cg is significantly below 0.45 kg (1 lb). Therefore, in compliance with FAA publication AC 43.13-1B, reweighing of the aircraft is not required due to this measure alone.

▲**Warning:** When this exemption has been used already for earlier maintenance events on the aircraft, or when other maintenance events are conducted in parallel, and the weight changes of the individual events add up to more than 0.45 kg (1 lb), re-weighing of the aircraft is required for the sum of the effects.

1.11. References

Drawings:

None.

Documents:

Rotax ALERT SERVICE BULLETIN, ASB_A-2026-001R00, 22 June 2026

Inspection of the propeller gearbox for ROTAX® 912, 914 and 912 i (Series) Aircraft Engines

Rotax ALERT SERVICE BULLETIN, ASB_A-2026-001R01, 01 July 2026

Inspection of the propeller gearbox for ROTAX® 912, 914 and 912 i (Series) Aircraft Engines

1.12. Superseded Documents

None.

1.13. Contact Details

For further information on conduct of this SB, or to report any issues, contact your distributor responsible for your country. Your distributor can be located via the Flight Design general aviation website: www.flightdesign.com under “Dealer Location”. In cases where the local distributor is not known or available contact Flight Design general aviation GmbH directly:

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1.14. Disclaimer

This service alert has been prepared with utmost care. Nevertheless, errors and misunderstandings can never be fully excluded. In case of any doubt the applicant of this service alert is requested to contact Flight Design immediately to clarify the issue.

2. Resources

2.1. Workshop Conditions

Standard working conditions.

2.2. Parts

See ASB_A-2026-001R00, section 2.

2.3. Tools

Standard metric and imperial tools.

2.4. Special Tools

See ASB_A-2026-001R00, section 2.7.

3. Instructions

See ASB_A-2026-001R00, section 3.