



Emergency Airworthiness Directive

AD No.: 2019-0055-E

Issued: 18 March 2019

Note: This Emergency Airworthiness Directive (AD) is issued by EASA, acting in accordance with Regulation (EU) 2018/1139 on behalf of the European Union, its Member States and of the European third countries that participate in the activities of EASA under Article 129 of that Regulation.

This AD is issued in accordance with Regulation (EU) 748/2012, Part 21.A.3B. In accordance with Regulation (EU) 1321/2014 Annex I, Part M.A.301, the continuing airworthiness of an aircraft shall be ensured by accomplishing any applicable ADs. Consequently, no person may operate an aircraft to which an AD applies, except in accordance with the requirements of that AD, unless otherwise specified by the Agency [Regulation (EU) 1321/2014 Annex I, Part M.A.303] or agreed with the Authority of the State of Registry [Regulation (EU) 2018/1139, Article 71 exemption].

Design Approval Holder's Name:

BRP-ROTAX GmbH & Co KG

Type/Model designation(s):

Rotax 912 and 915 engines

Effective Date: 20 March 2019

TCDS Number(s): EASA.E.121

Foreign AD: Not applicable

Supersedure: None

ATA 73 – Engine fuel and Control – Fuel Pump Assembly – Inspection / Replacement

Manufacturer(s):

BRP-Rotax GmbH & Co KG, formerly BRP-Powertrain GmbH & Co. KG, Bombardier-Rotax GmbH & Co. KG, Bombardier-Rotax GmbH

Applicability:

Rotax 912 iSc2 Sport, 912 iSc3 Sport and Rotax 915 iSc3 A engines, all serial numbers (s/n).

These engines are known to be installed on, but not limited to, various general aviation aeroplane types and models. The installation of these engines was either done by the respective aeroplane manufacturer, or through modification of the aeroplane by Supplemental Type Certificate (STC).

Definitions:

For the purpose of this AD, the following definitions apply:

The ASB: BRP-Rotax Alert Service Bulletin (ASB) ASB-912 i-010 / ASB-915 i A-006 (single document).

Affected part: Fuel pump assemblies, having part number (P/N) 889696 (part of assembly P/N 889697) and s/n from 180500 to 189999 inclusive; or having P/N 889698 (part of assembly P/N 889699) and s/n from 180500 to 189999 inclusive.



Serviceable part: Fuel pump assemblies which are not an affected part; or an affected part which passes an inspection (no defects found) in accordance with the instructions of the ASB.

Groups: Group 1 engines have an affected part installed. Group 2 engines do not have an affected part installed.

Reason:

Fuel leakage was observed on an engine still on the production line. Subsequent investigation determined a manufacturing issue as root cause of the fuel leak, and a batch of fuel pump assemblies was identified which could experience similar fuel leaks.

This condition, if not detected and corrected, could lead to engine fire, possibly resulting in a forced landing with consequent damage to the aeroplane and injury to occupants.

To address this potential unsafe condition, BRP-Rotax issued the ASB, providing inspection instructions.

For the reason described above, this AD requires a one-time inspection of the affected parts and, depending on findings, replacement. This AD also provides additional requirements for installation of a fuel pump assembly on an engine.

Required Action(s) and Compliance Time(s):

Required as indicated, unless accomplished previously:

Inspection:

(1) For Group 1 engines: Before next engine operation after the effective date of this AD, inspect the affected part in accordance with the instructions of the ASB.

Corrective action(s):

(1) If, during the inspection as required by paragraph (1) of this AD, any discrepancy is found, as identified in the ASB, before next engine operation, replace the affected part in accordance with the instructions of the ASB.

Part(s) Installation:

(3) For Group 1 and Group 2 engines: From the effective date of this AD, it is allowed to install on any engine a fuel pump assembly, provided that it is a serviceable part, as defined in this AD.

Ref. Publications:

BRP-Rotax ASB-912 i-010 / ASB-915 i A-006 (single document) original issue dated 13 March 2019.

The use of later approved revisions of the above-mentioned document is acceptable for compliance with the requirements of this AD.

Remarks:

1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD.



2. The results of the safety assessment have indicated the need for immediate publication and notification, without the full consultation process.
3. Enquiries regarding this AD should be referred to the EASA Safety Information Section, Certification Directorate. E-mail: ADs@easa.europa.eu.
4. Information about any failures, malfunctions, defects or other occurrences, which may be similar to the unsafe condition addressed by this AD, and which may occur, or have occurred on a product, part or appliance not affected by this AD, can be reported to the [EU aviation safety reporting system](#).
5. For any question concerning the technical content of the requirements in this AD, please contact: BRP-Rotax GmbH & Co KG, Telephone: +43 7246 601 0, Fax: +43 7246 601 9130, E-mail: airworthiness@brp.com, Website www.flyrotax.com.

