

## Rotax 914 (Series) Engines Exhaust Valve – Replacement

The European Aviation Safety Agency (EASA) has today issued an Emergency Airworthiness Directive (EAD) mandating a recently issued Alert Service Bulletin (ASB) issued by Rotax Aircraft Engines (ASB-914-054 R1/054UL R1) the requirements of which may affect Rotax 914F and 914UL engines operating in the LAA fleet.

The Bulletin affects engines built from February 2018 or engines that may have had new exhaust valves fitted during a recent repair or overhaul.

The Serial Number range of engines affected are listed below, note that there are no 915 engines currently operating in the UK

Engine type	Serial number
915 iSc A	from S/N 9127301 up to S/N 9127316 inclusive
915 iSc B	from S/N 9122510 up to S/N 9122523 inclusive
914 F	from S/N 4421923 up to S/N 4421964 inclusive

NOTE: Engines with serial numbers higher than in Criterion A have already been equipped with exhaust valve 32 mm (1.26 in.) with part no. 854113 with a production lot number higher than 0517 and are therefore not affected.

Engine type	Serial number
915 iS A	from S/N 9132001 up to S/N 9132182 inclusive
914 UL	from S/N 9576603 up to S/N 9576724 inclusive

NOTE: Engines with serial numbers higher than in Criterion A have already been equipped with exhaust valve 32 mm (1.26 in.) with part no. 854113 with a production lot number higher than 0517 and are therefore not affected.

Though full details are sketchy it appears that a manufacturing fault affecting sodium filled valves, originally designed for the 915 engines (but retrofitable on the 914) has caused engine issues in service.

The UK Rotax agent CFS Aero have identified a number of engines in the UK that fall within the serial number ranges above and owners have been contacted.

The EASA AD can be downloaded [HERE](#)

ASB-914-054 R2 can be downloaded [HERE](#)

ASB-914UL-054 R2 can be downloaded [HERE](#)

CAA EMPD – 2019-001 can be downloaded [HERE](#)

EASA AD No.: 2018-0265-E



### Emergency Airworthiness Directive

AD No.: 2018-0265-E

Issued: 07 December 2018

Note: This Emergency Airworthiness Directive (EAD) is issued by EASA, acting in accordance with Regulation (EU) 2018/1138 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) 182/2012, Part 21 A.36. In accordance with Regulation (EU) 1321/2014 Annex 1, Part M.A.301, the operating 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 1, Part M.A.302) or agreed with the Authority of the State of Registry (Regulation (EU) 2018/1138, Article 71 exemption).

**Design Approval Holder's Name:** BRP-ROTAX GmbH & Co KG  
**Type/Model designation(s):** Rotax 914 and 915 engines

**Effective Date:** 11 December 2018  
**TCDS Number(s):** EASA.E.121 and EASA.E.122  
**Foreign AD:** Not applicable  
**Supersede:** None

#### ATA 72 – Engine – Exhaust Valve – Replacement

**Manufacturer(s):** BRP-Rotax GmbH & Co KG, (formerly BRP-Powertrain GmbH & Co. KG; Bombardier-Rotax GmbH & Co. KG; Bombardier-Rotax GmbH

**Applicability:** Rotax 915 iSc3 A, 915 iSc3 B engines and Rotax 914 F2, 914 F3 and 914 F4 engines, all serial numbers.

These engines are known to be installed on, but not limited to, the aeroplane types and models as listed in Appendix 1 of this AD. The installation of these engines was either done by the respective aeroplane manufacturer, or through modification of the aircraft 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-915 iA-003 / ASB-915 iB-003 / ASB-914-054 (single document).

**Affected exhaust valve:** Exhaust valve having part number (P/N) 854113.



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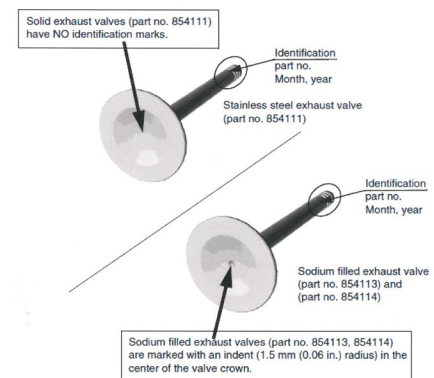


Fig. 2 Sodium Valve Identification.