



# 適航指令發布單

## Airworthiness Directive Issuance Form

民航局 AD 編號 AD number	CAA-2019-03-008 緊急	發布日期 Date issued	2019/3/19
適用之航空產品 Applied to (models, serial numbers or part numbers, as applicable)	Rotax 912 iSc2 Sport, 912 iSc3 Sport and Rotax 915 iSc3 A engines, all serial numbers (s/n).		
主旨摘要	Engine fuel and Control - Fuel Pump Assembly - Inspection / Replacement		
民航局 CAA <input type="checkbox"/> 本國產品 Native products <input type="checkbox"/> 其他個案 Other	設計國民航主管機構 Original Authorities <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> FAA  <input checked="" type="checkbox"/> EASA  <input type="checkbox"/> Brazil  <input type="checkbox"/> Transport Canada Civil Aviation  <input type="checkbox"/> DGAC             </div> <div> <input type="checkbox"/> Germany LBA  <input type="checkbox"/> CAA-NL  <input type="checkbox"/> UK CAA  <input type="checkbox"/> Japan CAB  <input type="checkbox"/> CAA of Israel  <input type="checkbox"/> Other _____             </div> </div>		
	設計國 AD 編號 Original AD number	2019-0055-E	
	1. 直接採用原 AD 之內容?(Is the original AD directly adopted?) <input checked="" type="checkbox"/> 是(Yes) <input type="checkbox"/> 否(No) _ a. 生效日期另訂為(Re-specify the effective date as) : _____ b. 執行時限另訂為(Re-specify the compliance time or period as) : _____ 2. 使用人是否需要將 AD 執行結果向民航局提出報告?(Do Users need to report the status of compliance to the CAA?) <input type="checkbox"/> 是(Yes) <input checked="" type="checkbox"/> 否(No)		
備註 Note	ATA 73. Ref. Publications: BRP-Rotax ASB-912 i-010 / ASB-915 i A-006 (single document) original issue dated 13 March 2019.		
註： 1. AD 內容後附。 2. 航空器產品使用人得向民航局提出豁免、替代符合方法、執行時限之展延之申請。 3. 如有任何問題，請聯絡交通部民用航空局初始適航科。Tel：(02)2349-6331~3, Fax：(02)2545-8464, e-mail： <a href="mailto:adcaa@mail.caa.gov.tw">adcaa@mail.caa.gov.tw</a> Note： 1. The AD text is enclosed. 2. Exemption, an alternative method of compliance or adjustment of the compliance time may be proposed to the CAA for approval. 3. For further information, please contact Civil Aeronautics Administration on Tel：(02)2349-6331~3, Fax：(02)2545-8464, e-mail： <a href="mailto:adcaa@mail.caa.gov.tw">adcaa@mail.caa.gov.tw</a>			



# 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](mailto: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](mailto:airworthiness@brp.com), Website [www.flyrotax.com](http://www.flyrotax.com).

