



## 適航指令發布單

### Airworthiness Directive Issuance Form

民航局 AD 編號 AD number	CAA-2018-12-004 緊急	發布日期 Date issued	2018/12/6
適用之航空產品 Applied to (models, serial numbers or part numbers, as applicable)	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).		
主旨摘要	Engine – Exhaust Valve – 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 style="width: 48%;"> <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 style="width: 48%;"> <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	2018-0265-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 72. Ref. Publications: BRP Rotax ASB-915 i A-003 / ASB-915 i B-003 / ASB-914-054 (single document) original issue dated 04 December 2018 or revision 1 dated 06 December 2018.		
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.:** 2018-0265-E

**Issued:** 07 December 2018

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 914 and 915 engines

**Effective Date:** 11 December 2018

**TCDS Number(s):** EASA.E.121 and EASA.E.122

**Foreign AD:** Not applicable

**Supersedure:** 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 i A-003 / ASB-915 i B-003 / ASB-914-054 (single document).

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



**Groups:** Group 1 engines have an affected exhaust valve installed. Group 2 engines do not have an affected exhaust valve installed.

**Reason:**

A broken exhaust valve has been reported on a non-certified Rotax 914 UL2-01 engine. Subsequent investigation identified deviation in the manufacturing process of the affected exhaust valve.

This condition, if not corrected, could lead to in-flight shut down, possibly resulting in a forced landing with consequent damage to the aeroplane and injury to occupants.

Due to similarity of design, this condition may affect also Rotax 915 iSc3 A, 915 iSc3 B engines and Rotax 914 F2, 914 F3 and 914 F4 engines.

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

For the reason described above, this AD requires replacement of affected exhaust valves, and prohibits installation thereof on an engine.

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

Required as indicated, unless accomplished previously:

**Modification:**

- (1) For Group 1 engines: Within 10 flight hours or 3 months, whichever occurs first after the effective date of this AD, replace each affected exhaust valve with an exhaust valve having P/N 854114, in accordance with the instructions of the ASB.
- (2) For Rotax 914 F2, 914 F3 and 914 F4 engines: Replacing each affected exhaust valve on an engine with an exhaust valve having P/N 854111, in accordance with the instructions of the ASB, is acceptable to comply with the requirements of paragraph (1) of this AD for that engine.

**Part(s) Installation:**

- (3) Do not install on any engine an affected exhaust valve as required by paragraph (3.1) or (3.2) of this AD, as applicable.
  - (3.1) For Group 1 engines: After modification of that engine as required by paragraph (1) of this AD.
  - (3.2) For Group 2 engines: From the effective date of this AD.

**Ref. Publications:**

BRP Rotax ASB-915 i A-003 / ASB-915 i B-003 / ASB-914-054 (single document) original issue dated 04 December 2018 or revision 1 dated 06 December 2018.

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).



Appendix 1 – List of Aircraft known to have Rotax engine(s) installed,  
either done by the respective aircraft manufacturer or through modification of the aircraft by  
Supplemental Type Certificate

Type Certificate Holder / Manufacturer	Type/model
3XTRIM SP.Z.O.O	3XTRIM
AAC AMPHIBIAN AIRCR. OF CANADA	TANGO, XP RFS
AEROSPOOL, SPOL. S.R.O.	DYNAMIC WT 9, WT10 ADVANTIC
ALPI AVIATION	PIONEER 300
Aquila Aviation GmbH	Aquila AT01
AUSTRALIAN AIRCRAFT COMPANY	HORNET
AUTOGYRO	CAVALON, MTO SPORT
AVIATION ARTUR TREDAK & SON	TAURUS, TERCEL
COMCO IKARUS	IKARUS C 22
Costruzioni Aeronautiche TECNAM S.r.l.	P2006T
Diamond Aircraft Industries GmbH	H 36 "Dimona", HK 36 "Super Dimona", DV 22
Diamond Aircraft Industries Inc.	DA20-A1 "Katana"
DYN AÉRO	MCR 01 UL, MCR-4S
ELA AVIACION	ELA-07
Flight - Design	CTLS-ELA
HANSA	HANSA-3
HELI SPORT SRL	CH-7 ANGEL
HOFFMANN AIRCRAFT	H36 DIMONA
JMB AIRCRAFT SRO	VL-3 EVOLUTION
KORFF	TAIFUN 17E
M&D Flugzeugbau GmbH & Co. KG	AVO 68 aeroplanes "Samburo"
MAGNI GYRO	M-18 SPARTAN, M-24
MARC-INGEGNO	PARROT
PRO.MECC	01 SPARVIERO
ROTORSPOUT UK LTD	CAVALON
Scheibe Aircraft GmbH	SF 25 C
SKYETON AIRCRAFT	K-10 SWIFT
Stemme AG	S10-VT, S12, S6
Textron Aviation (formerly Cessna Aircraft Company)	150 and A150 aeroplanes (and Reims F150 and FA150), modified by various STC
TL ULTRALIGHT	TL 2000 STING
ZENITH AIRCRAFT (ZENAIR)	ZODIAC CH 601 XL

