


EASA	EMERGENCY AIRWORTHINESS DIRECTIVE
	<p>AD No.: 2011-0067-E</p> <p>Date: 15 April 2011</p> <p>Note: This Emergency Airworthiness Directive (AD) is issued by EASA, acting in accordance with Regulation (EC) No 216/2008 on behalf of the European Community, its Member States and of the European third countries that participate in the activities of EASA under Article 66 of that Regulation.</p>
<p>This AD is issued in accordance with EC 1702/2003, Part 21A.3B. In accordance with EC 2042/2003 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 [EC 2042/2003 Annex I, Part M.A.303] or agreed with the Authority of the State of Registry [EC 216/2008, Article 14(4) exemption].</p>	
<p>Type Approval Holder's Name: BRP-Powertrain GmbH & Co. KG</p>	<p>Type/Model designation(s): Rotax 912 and 914 series engines</p>
<p>TCDS Numbers : EASA.E.121, EASA.E.122</p>	
<p>Foreign AD : Not applicable</p>	
<p>Supersedure : None</p>	
ATA 74	Ignition – Magneto Flywheel Hub Washer – Replacement
<p>Manufacturer(s): BRP-Powertrain GmbH & Co. KG</p>	
<p>Applicability:</p>	<p>Rotax 912 A1, 912 A2, 912 A3 and 912 A4 engines, serial numbers (s/n) 4,410.888 through 4,410.899 inclusive.</p> <p>Rotax 912 F3 engines, s/n 4,412.986 and 4,412.987.</p> <p>Rotax 912 S2, 912 S3 and 912 S4 engines, s/n 4,924.087 through 4,924.139 inclusive, and s/n 4,924.141 through 4,924.166 inclusive.</p> <p>Rotax 914 F2, 914 F3 and 914 F4 engines, s/n 4,420.970 through 4,420.990 inclusive, s/n 4,420.997, and s/n 4,421.001 through 4,421.003 inclusive.</p> <p>These engines are known to be installed on, but not limited to, the following types of aeroplanes: 3-i Sky Arrow 650 TC, 650 TCN, 650 TCNS and 710 RG; Aeromot AMT-200 Super Ximango and AMT-300 Turbo Super Ximango; Aircraft Philipp (formerly Alpa-Werke; Nitsche) AVO 68 series Samburo; Aquila AT01; Cessna 150 and A150 series; and (Reims) F150 and FA150 series; Diamond (formerly HOAC) H 36 Dimona, HK 36 series Super Dimona, DV 20 Katana and DA20-A1 Katana; Evektor-Aerotechnik EV-97 VLA; Grob G 109; Issoire APM-20 Lionceau; Scheibe SF 36R and SF 25C; Stemme S10-VT; Tecnam P 92-J, P 92-JS and P2002-JF; W.D. Aircraft D4 Fascination.</p> <p>Note: The installation of these engines was either done by the respective aeroplane manufacturer or through modification of the aeroplane by Supplemental Type Certificate.</p>

Reason:	<p>During a production process review, a deviation in hardening of certain Part Number (P/N) 944072 washers has been detected, which exceeds the hardness of the design specification.</p> <p>The affected washers are part of the magneto ring flywheel hub installation and have been installed on a limited number of engines. No defective washers have been shipped as spare parts.</p> <p>This condition, if not corrected, could lead to cracks in the washer, loosening of the magneto flywheel hub and consequent ignition failure, possibly resulting in damage to the engine, in-flight engine shutdown and forced landing, damage to the aeroplane and injury to occupants.</p> <p>For the reasons described above, this AD requires, for the affected engines, the replacement of the P/N 944072 washer and associated gasket ring P/N 950141 with serviceable parts, having the same P/N.</p> <p>This AD also prohibits installation of an affected engine on an aeroplane, unless the washer on that engine has been replaced as required by this AD.</p>
Effective Date:	15 April 2011
Required Action(s) and Compliance Time(s)	<p>Required as indicated, unless accomplished previously:</p> <ol style="list-style-type: none"> (1) Within 10 flight hours or 4 calendar months, whichever occurs first after the effective date of this AD, replace the P/N 944072 washer and associated gasket ring P/N 950141 on the magneto ring flywheel hub with serviceable parts, having the same P/N, in accordance with Section 3) Accomplishment Instructions of BRP-Powertrain Mandatory SB-912-058 or SB-914-041, as applicable to engine type. (2) Within 10 days after the replacement as required by paragraph (1) of this AD, return the P/N 944072 washer that has been removed from the engine to BRP-Powertrain, in accordance with Section 1.13) Interchangeability of Parts of BRP-Powertrain Mandatory SB-912-058 or SB-914-041, as applicable to engine type. (3) From the effective date of this AD, do not install an affected engine, identified by s/n in the Applicability section of this AD, on an aeroplane, unless the washer on that engine has been replaced as required by paragraph (1) of this AD.
Ref. Publications:	<p>BRP-Powertrain Mandatory SB-912-058 and SB-914-041 (same document) dated 15 April 2011.</p> <p>The use of later approved revisions of this document is acceptable for compliance with the requirements of this AD.</p>
Remarks:	<ol style="list-style-type: none"> 1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD. 2. The safety assessment has requested not to implement the full consultation process and an immediate publication and notification. 3. Enquiries regarding this AD should be referred to the Airworthiness Directives, Safety Management & Research Section, Certification Directorate, EASA. E-mail ADs@easa.europa.eu. 4. For any question concerning the technical aspects of the requirements in this AD, please contact: BRP-Powertrain GmbH & Co. KG Telephone: +43 7246 601 0; Fax: +43 7246 601 9130; E-mail: airworthiness@brp.com, Website www.rotax-aircraft-engines.com.