



Civil Aviation Authority
EMERGENCY
MANDATORY PERMIT DIRECTIVE



Number: 2011-003-E

Issue date: 10 May 2011

In accordance with 22(1) of Air Navigation Order 2009 as amended the following action required by this Mandatory Permit Directive (MPD) is mandatory for applicable aircraft registered in the United Kingdom operating on a UK CAA Permit to Fly.

Type Approval Holder's Name:

BRP - Powertrain GmbH & Co. KG

Type/Model Designation(s):

Rotax 912 and 914 Series engines

Title:

Replacement of Flywheel Hub Washer Part No. 944072

Manufacturer:

BRP - Powertrain GmbH & Co. KG

Applicability:

Rotax 912UL, 912ULS, 912 ULSFR, 914UL engines of the following serial numbers (S/N) (ranges are inclusive)

912UL – from S/N 6,770.178 to S/N 6,770.241
from S/N 6,770.245 to S/N 6,770.251

912ULS – from S/N 6,777.699 to S/N 6,777.716
from S/N 6,777.718 to S/N 6,777.832
from S/N 6,777.861 to S/N 6,777.885
from S/N 6,777.896 to S/N 6,777.967
from S/N 6,777.973 to S/N 6,778.025
from S/N 6,778.031 to S/N 6,778.107
from S/N 6,778.115 to S/N 6,778.139
from S/N 6,778.179 to S/N 6,778.196

912ULSFR – S/N 6,778.108

914UL – from S/N 6,774.240 to S/N 6,774.261
from S/N 6,774.263 to S/N 6,774.269
from S/N 6,774.271 to S/N 6,774.308
from S/N 6,774.313 to S/N 6,774.321
from S/N 6,774.327 to S/N 6,774.386
from S/N 6,774.396 to S/N 6,774.425

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, so washers P/N 944072 delivered as spares are not affected.</p> <p>This condition, if not corrected, could lead to cracks in the washer, loosening of the magneto flywheel hub and consequent ignition failure, in-flight engine shutdown and forced landing.</p> <p>This MPD therefore 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, in accordance with Rotax SB-912-058UL or SB-914-041UL.</p> <p>This MPD also prohibits installation of an affected engine, unless the washer on that engine has been replaced as required by this MPD.</p>	
Effective Date:	12 May 2011	
Compliance/Action:	<p>Compliance is required as follows, unless previously accomplished:</p> <p>(1) Within 10 flight hours or 31 August 2011, whichever occurs first, after the effective date of this MPD, 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 BRP-Powertrain Mandatory SB-912-058UL or SB-914-041UL as applicable. (Note that these bulletins refer to SB-912-058 or SB-914-041 for actual instructions for performing the task.)</p> <p>(2) From the effective date of this MPD, do not install an affected engine, identified by S/N in the Applicability section of this MPD, unless the washer on that engine has been replaced as required by paragraph (1).</p>	
Ensure compliance with this MPD is recorded in the aircraft logbook		
Reference Publications:	Rotax SB-912-058UL and Rotax SB-914-041UL, dated 15 April 2011 The use of later revisions of this document is acceptable for compliance with this MPD.	
Remarks:	<p>1. This MPD was not posted for consultation because of the urgency of the requirement.</p> <p>2. Enquiries regarding this Mandatory Permit Directive should be referred to: Aircraft Evaluation and Surveillance, Civil Aviation Authority, Safety Regulation Group, Aviation House, Gatwick Airport South, West Sussex RH6 0YR.</p>	
Tel: +44 (0)1293 573074		Fax: +44 (0)1293 53976
E-mail: department.certification@caa.co.uk		