

<b>EASA</b>	<b>AIRWORTHINESS DIRECTIVE</b>	
	<b>AD No.: 2013-0118</b>	
	<b>Date: 03 June 2013</b>	
<p>Note: This 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 748/2012, Part 21.A.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>		
<b>Design Approval Holder's Name :</b>		<b>Type/Model designation(s) :</b>
AGUSTAWESTLAND S.p.A.		A109 and A119 helicopters
TCDS Number:	EASA.R.005	
Foreign AD:	Not applicable	
Supersedure:	None	
<b>ATA 63</b>	<b>Main Rotor Drive – Main Gear Box / Gleason Crown – Inspection / Replacement</b>	
Manufacturer(s):	AgustaWestland S.p.A (formerly Agusta S.p.A.), AgustaWestland Philadelphia Corporation (formerly Agusta Aerospace Corporation).	
Applicability:	A109K2, A109E, A119 and AW119MKII helicopters, all serial numbers (s/n).	
Reason:	<p>During the overhaul of an A119 helicopter main transmission, Part Number (P/N) 109-0400-05-103, a crack on Gleason crown P/N 109-0403-07-103 was found.</p> <p>The investigation of this occurrence carried out by AgustaWestland revealed that the crack was originated from the bottom of one of 40 threaded holes in the Gleason crown. The Gleason crown P/N 109-0403-07-103 is also eligible for installation on A109 helicopters.</p> <p>This condition, if not detected and corrected, could cause damage to, or loss of, the main rotor drive, possibly resulting in loss of control of the helicopter.</p> <p>To address this potential unsafe condition, AgustaWestland published Bollettino Tecnico (BT) 109K-57 Rev. A, BT 119-058 Rev. A and BT 109EP-128 Rev. A (hereafter called "the applicable BT"), providing instructions for additional inspections of the Gleason crown and, depending on findings, replacement of the affected part with a new support assembly Gleason crown (welded to the mast support, which does not have the 40 threaded holes).</p>	

	For the reasons described above, this AD requires repetitive inspections of the Gleason crown and, depending on findings, accomplishment of the applicable corrective actions.										
Effective Date:	17 June 2013										
Required Action(s) and Compliance Time(s):	<p>Required as indicated, unless accomplished previously:</p> <p>(1) Within the compliance time specified in the applicable BT, depending on the time in service of the affected main transmission on the effective date of this AD, accomplish repetitive magnetic particle inspections of the Gleason crown in accordance with the instructions of the applicable BT.</p> <p>Note 1: For the purpose of this AD, the affected main transmissions are listed in Table 1 of this AD.</p> <p style="text-align: center;">Table 1 – Affected Main Transmission</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Helicopter Model(s)</th> <th>P/N</th> <th>S/N</th> </tr> </thead> <tbody> <tr> <td>A109K2</td> <td>109-0400-03-103</td> <td rowspan="3">Defined in the applicable BT</td> </tr> <tr> <td>A119 and AW119MKII</td> <td>109-0400-05-103</td> </tr> <tr> <td>A109E</td> <td>109-0400-03-109</td> </tr> </tbody> </table> <p>(2) If, during any inspection as required by paragraph (1) of this AD, any crack is identified, before next flight, replace the affected Gleason crown with an improved part in accordance with the instructions of the applicable BT.</p> <p>(3) An inspection, accomplished before the effective date of this AD in accordance with the instructions of the applicable AgustaWestland BT at original issue, is acceptable to comply with the initial inspection as required by paragraph (1) of this AD.</p> <p>(4) Replacement of a Gleason crown as required by paragraph (2) of this AD constitutes terminating action for the repetitive inspections as required by paragraph (1) of this AD.</p> <p>(5) From the effective date of this AD, do not install on any helicopter a Gleason crown P/N 109-0403-07-103 and do not install on any helicopter a Gleason crown assembly P/N 109-0401-27-101 or -109 (Gleason crown P/N 109-0403-07-103 is part of these assemblies).</p>	Helicopter Model(s)	P/N	S/N	A109K2	109-0400-03-103	Defined in the applicable BT	A119 and AW119MKII	109-0400-05-103	A109E	109-0400-03-109
Helicopter Model(s)	P/N	S/N									
A109K2	109-0400-03-103	Defined in the applicable BT									
A119 and AW119MKII	109-0400-05-103										
A109E	109-0400-03-109										
Ref. Publications:	<p>AgustaWestland BT 109K-57 Rev. A dated 28 May 2013.</p> <p>AgustaWestland BT 119-058 Rev. A dated 28 May 2013.</p> <p>AgustaWestland BT 109EP-128 Rev. A dated 28 May 2013.</p> <p>The use of later approved revisions of these documents is acceptable for compliance with the requirements of this AD.</p>										
Remarks:	<ol style="list-style-type: none"> <li>If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD.</li> <li>Based on the required actions and the compliance time, EASA have decided to issue a Final AD with Request for Comments, postponing the public consultation process until after publication.</li> <li>Enquiries regarding this AD should be referred to the Safety Information Section, Executive Directorate, EASA. E-mail: <a href="mailto:ADs@easa.europa.eu">ADs@easa.europa.eu</a>.</li> <li>For any question concerning the technical content of the requirements in this AD, please contact: Agusta S.p.A. Customer Support Via del Gregge, 100 - 21015 Lonate Pozzolo (VA) – Italy Telephone + 39 0331 664600 ; Fax: + 39 0331 664684 E-mail: <a href="mailto:custserv@agustawestland.com">custserv@agustawestland.com</a>.</li> </ol>										