


EASA	AIRWORTHINESS DIRECTIVE
	<p>AD No.: 2011-0104</p> <p>Date: 27 May 2011</p> <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 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 :</p> <p>EUROCOPTER</p>	<p>Type/Model designation(s) :</p> <p>AS 350 and AS 355 helicopters</p>
TCDS Number :	EASA.R.008, EASA.R.146
Foreign AD :	Not applicable
Supersedure :	None
ATA 65	Tail Rotor Drive – Tail Gearbox (TGB) Casing Assembly – Inspection / Replacement
Manufacturer(s):	Eurocopter (formerly Eurocopter France, Aerospatiale)
Applicability:	AS 350 B, BA, BB, B1, B2, B3 and D helicopters and AS 355 E, F, F1, F2, N and NP helicopters, all serial numbers.
Reason:	<p>Following repair of the manufacturing mould for the TGB casing assemblies, the dye-penetrant inspection performed after machining of the attachment yokes of the control lever has revealed cracks on some TGB casing assemblies.</p> <p>EUROCOPTER identified the TGB casing assemblies which may show cracks.</p> <p>This condition, if not detected and corrected, could lead to a crack on the attachment yokes of the control lever, possibly resulting in the loss of tail rotor pitch control and subsequent loss of control of the helicopter.</p> <p>For the reasons described above, this AD requires an inspection for cracks and, depending on findings, replacement of the TGB.</p>
Effective Date:	10 June 2011

<p>Required Action(s) and Compliance Time(s):</p>	<p>Required as indicated, unless accomplished previously:</p> <p>(1) Within the time indicated in Table 1 of this AD, identify the serial number of the TGB casing assembly P/N 350A33-1090-02 installed on the helicopter and, if the TGB casing assembly has a serial number as specified in Table 2 of this AD, inspect the attachment yokes of the control lever of the TGB casing assembly for cracks in accordance with the instructions of paragraph 3 of Eurocopter AS350 Alert Service Bulletin (ASB) 65.00.46 or AS355 ASB 65.00.22, as applicable to helicopter type.</p> <p style="text-align: center;">Table 1</p> <table border="1" data-bbox="592 490 1428 848"> <thead> <tr> <th data-bbox="592 490 963 629">Flight Hours (FH) accumulated by the TGB casing since new, on the effective date of this AD</th> <th data-bbox="963 490 1428 629">Compliance Time</th> </tr> </thead> <tbody> <tr> <td data-bbox="592 629 963 741">Less than 550 FH</td> <td data-bbox="963 629 1428 741">Within 26 months or 660 FH accumulated by the TGB casing since new, whichever occurs first</td> </tr> <tr> <td data-bbox="592 741 963 848">550 FH or more</td> <td data-bbox="963 741 1428 848">Within 110 FH or 13 months, whichever occurs first after the effective date of this AD</td> </tr> </tbody> </table> <p style="text-align: center;">Table 2 – Affected Serial Numbers TGB Casings</p> <table border="1" data-bbox="592 911 1428 1077"> <tr> <td data-bbox="592 911 1428 1077">MA47577, MA47585, MA47587, MA47588, MA47589, MA47590, MA47591, MA47592, MA47593, MA47597, MA47598, MA47599, MA47600, MA47602, MA47604, MA47606, MA47610, MA47613, MA47615, MA47617, MA47619, MA47620, MA47621, MA47622, MA47623, MA47624, MA47626, MA47628, MA47631.</td> </tr> </table> <p>(2) If, during any inspection required by paragraph (1) of this AD, any crack is detected on at least one of the control lever yokes of the TGB casing assembly, before next flight, replace the TGB with a serviceable unit in accordance with the requirements of the Eurocopter AS350 ASB 65.00.46 or AS355 ASB 65.00.22, as applicable to helicopter type.</p> <p>(3) After the effective date of this AD, do not install a TGB casing with a serial number as listed in Table 2 of this AD on any helicopter, unless the attachment yokes of the control lever of the TGB casing assembly have passed the inspection as required by paragraph (1) of this AD.</p>	Flight Hours (FH) accumulated by the TGB casing since new, on the effective date of this AD	Compliance Time	Less than 550 FH	Within 26 months or 660 FH accumulated by the TGB casing since new, whichever occurs first	550 FH or more	Within 110 FH or 13 months, whichever occurs first after the effective date of this AD	MA47577, MA47585, MA47587, MA47588, MA47589, MA47590, MA47591, MA47592, MA47593, MA47597, MA47598, MA47599, MA47600, MA47602, MA47604, MA47606, MA47610, MA47613, MA47615, MA47617, MA47619, MA47620, MA47621, MA47622, MA47623, MA47624, MA47626, MA47628, MA47631.
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<p>Ref. Publications:</p>	<p>EUROCOPTER AS350 ASB No. 65.00.46 Revision 0, dated 18 May 2011, EUROCOPTER AS355 ASB No. 65.00.22 Revision 0, dated 18 May 2011.</p> <p>The use of later approved revisions of these documents is acceptable for compliance with the requirements of this AD.</p>							
<p>Remarks :</p>	<ol style="list-style-type: none"> 1. If requested and appropriately substantiated, EASA can accept Alternative Methods of Compliance for this AD. 2. The required actions and the risk allowance have granted the issuance of a Final AD with Request for Comments, postponing the public consultation process after publication. 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 content of the requirements in this AD, please contact: EUROCOPTER - Customer Service Technical Support Department - Aéroport de Marseille Provence 13725 Marignane Cedex - France. Tel: + 33 (0)4 42 85 99 51 - Fax: + 33 (0)4 42 85 99 66. E-mail: Directive.technical-support@eurocopter.com. 							