


EASA	AIRWORTHINESS DIRECTIVE	
	AD No.: 2012-0041R1	
	Date: 15 March 2012 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.	
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].		
Type Approval Holder's Name : Eurocopter Deutschland GmbH	Type/Model designation(s) : EC 135 and EC 635 helicopters	
TCDS Number :	EASA.R.009	
Foreign AD :	Not applicable	
Revision:	This AD revises EASA Emergency AD 2012-0041-E dated 12 March 2012.	
ATA 62	Main Rotor System – Main Rotor Hub – Inspection / Replacement	
Manufacturer(s):	Eurocopter Deutschland GmbH (ECD), Eurocopter España S.A., Eurocopter S.A.	
Applicability:	EC 135 P1(CDS), EC 135 P1(CPDS), EC 135 P2(CPDS), EC 135 P2+, EC 135 T1(CDS), EC 135 T1(CPDS), EC 135 T2(CPDS), EC 135 T2+, EC 635 T1(CPDS), EC 635 P2+ and EC 635 T2+ helicopters, all serial numbers.	
Reason:	<p>During a periodical inspection of an EC 135 helicopter, a crack was detected on the lower hub-shaft flange of a main rotor hub (MRH) shaft.</p> <p>The investigation is on-going and the cause of the cracking has not been determined yet. It has been established, however, that deformed safety pins, used to secure main rotor blade bolts, can indicate that bolts may have rotated, indicating possible cracking in one of the hub-shaft flanges.</p> <p>This condition, if not detected and corrected, could lead to further crack propagation, possibly resulting in main rotor hub failure and consequent loss of the helicopter.</p> <p>For the reason described above, EASA issued Emergency AD to require repetitive pre-flight checks of the main rotor blade attachment bolts and safety pins to detect rotated bolts. In addition, that AD requires a one-time visual inspection of the upper and lower hub-shaft flange for cracks and, if cracks are detected, replacement of the main rotor hub. This AD also requires reporting of any findings to ECD. This AD is considered to be an interim action and further AD action may follow.</p> <p>This AD has been revised to clarify the paragraph (1) requirement.</p>	
Effective Date:	Revision 1: 15 March 2012	

	Original issue: 14 March 2012						
Required Action(s) and Compliance Time(s):	<p>Required as indicated, unless already accomplished:</p> <p>(1) Before the first flight of the day after 14 March 2012 [the effective date of the original issue of this AD] and thereafter, before each first flight of the day, accomplish a pre-flight check as specified in the applicable Rotorcraft Flight Manual (RFM), taking into account the instructions specified in section 1.E.2.(a) of ECD Alert Service Bulletin (ASB) No. EC135-62A-029.</p> <p>Note: The pre-flight checks as required by paragraph (1) of this AD can be accomplished by the helicopter pilot. As the pre-flight check is already required through the RFM, there is no need to record AD compliance for each accomplished pre-flight check, provided each pilot operating the helicopter has been made aware of the specific ASB instructions for emphasis.</p> <p>(2) If, during any pre-flight check as required by paragraph (1) of this AD, discrepancies are detected, before next flight, contact ECD for approved instructions and accomplish those instructions accordingly.</p> <p>(3) Within the compliance time as specified in Table 1 of this AD, visually inspect the upper and lower hub-shaft flanges in accordance with the instructions of section 3.B.2 of ECD ASB No. EC135-62A-029.</p> <p style="text-align: center;">Table 1 – Visual Inspection of the MRH</p> <table border="1"> <thead> <tr> <th>Flight hours (FH) accumulated by the MRH since first installation on a helicopter</th> <th>Compliance time</th> </tr> </thead> <tbody> <tr> <td>Less than 10 FH</td> <td>Within 100 FH or 3 months, whichever occurs first after accumulating 10 FH since first MRH installation on a helicopter</td> </tr> <tr> <td>10 FH or more</td> <td>Within 100 FH or 3 months, whichever occurs first after 14 March 2012 [the effective date of the original issue of this AD]</td> </tr> </tbody> </table> <p>(4) If, during the inspection as required by paragraph (3) of this AD, cracks are detected, before next flight, replace the MRH with a serviceable unit.</p> <p>(5) Within 30 days after replacement of the MRH as required by paragraph (4) of this AD, report the findings and send the removed MRH for further investigation to ECD.</p> <p>(6) Corrective action as required by paragraph (2) of this AD, or replacement of a MRH as required by paragraph (4) of this AD, does not constitute terminating action for the repetitive pre-flight checks as required by paragraph (1) of this AD.</p>	Flight hours (FH) accumulated by the MRH since first installation on a helicopter	Compliance time	Less than 10 FH	Within 100 FH or 3 months, whichever occurs first after accumulating 10 FH since first MRH installation on a helicopter	10 FH or more	Within 100 FH or 3 months, whichever occurs first after 14 March 2012 [the effective date of the original issue of this AD]
Flight hours (FH) accumulated by the MRH since first installation on a helicopter	Compliance time						
Less than 10 FH	Within 100 FH or 3 months, whichever occurs first after accumulating 10 FH since first MRH installation on a helicopter						
10 FH or more	Within 100 FH or 3 months, whichever occurs first after 14 March 2012 [the effective date of the original issue of this AD]						
Ref. Publications:	<p>Eurocopter Deutschland ASB No. EC135-62A-029 dated 08 March 2012.</p> <p>The use of later approved revisions of this document is acceptable for compliance with the requirements of this AD.</p>						
Remarks :	<p>1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD.</p>						

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| | <ol style="list-style-type: none">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 Safety Information Section, Executive 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 Deutschland GmbH, Industriestrasse 4, 86607 Donauwörth, Federal Republic of Germany Telephone: + 49 (0)151-1422 8976; Facsimile: + 49 (0)906-71 4111. |
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