


EASA	EMERGENCY AIRWORTHINESS DIRECTIVE	
	<p>AD No.: 2013-0098-E</p> <p>Date: 24 April 2013</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 EU 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>		
<p>Design Approval Holder's Name: EUROCOPTER</p>		<p>Type/Model designation(s): EC 225 helicopters</p>
TCDS Number:	EASA.R.002	
Foreign AD:	Not applicable	
Supersedure:	None	
ATA 76	Engine Controls – Emergency Shutdown / Fuel Shut-Off and General Cut-Out Control Tangential Gearboxes – Check / Lubrication / Replacement	
Manufacturer(s):	Eurocopter (formerly EUROCOPTER France)	
Applicability:	EC 225 LP helicopters, all serial numbers, if equipped with tangential gearboxes Part Number (P/N) 200181 (or Eurocopter's P/N 704A34112012), all serial number.	
Reason:	<p>During maintenance on a helicopter, jamming of the cockpit left-hand side (LH) engine emergency shutdown controls was reported, making impossible to operate both the LH fuel shut-off handle and the general cut-out handle.</p> <p>The subsequent investigation identified that such jamming was originated in the LH tangential gearbox, installed after the two affected handles, and was a result of corrosion that had developed on the internal bearings of the tangential gearbox.</p> <p>This condition, if not detected and corrected, could lead to failure to manually operate the helicopter emergency shutdown controls during emergency landing or fire condition.</p> <p>To address this potential unsafe condition, Eurocopter issued Alert Service Bulletin (ASB) No 76A001.</p> <p>For the reasons described above, this AD requires, depending on the date of issuance of the helicopter original Certificate of Airworthiness (CofA) or the original export CofA, as applicable, lubrication of the two tangential gearboxes or operating load check of the two cockpit fuel shut-off handles and, depending on findings, accomplishment of applicable corrective actions including</p>	

	lubrication of the tangential gearboxes and replacement.
Effective Date:	26 April 2013
Required Action(s) and Compliance Time(s):	<p>Required as indicated, unless accomplished previously:</p> <p>(1) For helicopters for which the original CofA or the original export CofA, as applicable, was issued five months or more before the effective date of this AD, accomplish the following actions:</p> <p>(1.1) Within 15 flight hours (FH) or 7 days after the effective date of this AD, whichever occurs first, check the operating load of the two cockpit fuel shut-off handles in accordance with the instructions of paragraph 3.B.1 of Eurocopter EC225 ASB No 76A001, and</p> <p>(1.2) Within 6 months after the operating load check as required by paragraph (1.1) of this AD, lubricate the two tangential gearboxes, and before next flight after tangential gearboxes lubrication, check the operating load of the associated cockpit fuel shut-off handles in accordance with the instructions of paragraph 3.B.2 of Eurocopter EC225 ASB No 76A001.</p> <p>(2) For helicopters for which the original CofA or the original export CofA, as applicable, was issued less than five months before the effective date of this AD, accomplish either actions required by paragraph (2.1) of this AD <u>or</u> actions required by paragraphs (2.2) and (2.3) of this AD:</p> <p>(2.1) Within 6 months after the date of issuance of the helicopter original CofA or date of issuance of the original export CofA, as applicable, lubricate the two tangential gearboxes, and before next flight after tangential gearbox lubrication, check the operating load of the associated cockpit fuel shut-off handles in accordance with the instructions of paragraph 3.B.2 of Eurocopter EC225 ASB No 76A001.</p> <p>(2.2) Within 6 months after the date of issuance of the helicopter original CofA or date of issuance of the original export CofA, as applicable, check the operating load of the two cockpit fuel shut-off handles in accordance with the instructions of paragraph 3.B.1 of Eurocopter EC225 ASB No 76A001; and</p> <p>(2.3) Within 6 months after the operating load check as required by paragraph (2.2) of this AD, lubricate the two tangential gearboxes, and before next flight after tangential gearbox lubrication, check the operating load of the associated cockpit fuel shut-off handles in accordance with the instructions of paragraph 3.B.2 of Eurocopter EC225 ASB No 76A001.</p> <p>(3) If, during the fuel shut-off handle operating load check as required by paragraph (1.1) or (2.2) of this AD, as applicable, it is determined that an operating load is more than 3 daN, accomplish on the affected tangential gearbox the following actions:</p> <p>(3.1) Before next flight, lubricate the affected tangential gearbox and after lubrication, check the operating load of the associated cockpit fuel shut-off handle in accordance with the instructions of paragraph 3.B.2 of Eurocopter EC225 ASB No 76A001, and</p> <p>(3.2) If, during the operating load check as required by paragraph (3.1) of this AD, it is determined that the fuel shut-off handle operating load is more than 3 daN, before next flight, replace the affected tangential gearbox with a serviceable part, in accordance with the instructions of paragraph 3.B.3 of Eurocopter EC225 ASB No 76A001.</p> <p>(3.3) Corrective actions accomplished in accordance with paragraphs (3.1) and (3.2) of this AD, as applicable, terminate the requirements</p>

	<p>of paragraph (1.2) or (2.3) of this AD, as applicable, for the affected tangential gearbox.</p> <p>(4) If, during the fuel shut-off handle operating load check as required by paragraph (1.2) or (2.1) or (2.3) of this AD, as applicable, it is determined that an operating load is more than 3 daN, before next flight, replace the affected tangential gearbox with a serviceable part in accordance with the instructions of paragraph 3.B.3 of Eurocopter EC225 ASB No 76A001.</p> <p>(5) From the effective date of this AD, installation of a tangential gearbox P/N 200181 (or Eurocopter's P/N 704A34112012) on a helicopter is allowed, provided it is accomplished in accordance with the instructions of paragraph 3.B.3.c of Eurocopter EC225 ASB No 76A001.</p>
Ref. Publications:	<p>Eurocopter EC225 ASB No.76A001 Revision 0 dated 22 April 2013.</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 results of the safety assessment have indicated the need for immediate publication and notification, without the full public consultation process. 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 (STDI) – Aéroport de Marseille Provence 13725 Marignane Cedex, France; telephone +33 (4) 42 85 97 97; facsimile +33 (4) 42 85 99 66; E-mail: Directive.technical-support@eurocopter.com.