

EASA	AIRWORTHINESS DIRECTIVE
	AD No.: 2012-0035 Date: 06 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	Type/Model designation(s) : AS 332 and EC 225 helicopters
TCDS Number:	EASA.R.002
Foreign AD:	Not applicable
Supersedure:	None
ATA 24	Electrical Power – Relay 16XK of Emergency Hydro-Electrical Power Unit – Inspection / Replacement
Manufacturer(s):	Eurocopter (formerly EUROCOPTER France)
Applicability:	AS 332 L2 helicopters, all serial numbers, if equipped with an emergency hydro-electrical power unit Part Number (P/N) CMV3-022-EA5A or P/N CMV3-022EA3A; and EC 225 LP helicopters, all serial numbers, if equipped with an emergency hydro-electrical power unit P/N CMV3-022-EA5A.
Reason:	An incident was recently reported on a helicopter equipped with the emergency hydro-electrical power installation (an optional kit). The helicopter experienced the loss of the connection of the main battery combined with the malfunction of the electrical relay 16XK. This combination of failures prevented connection of the emergency hydro-electrical power unit, resulting in partial loss of the electrical power system and complete loss of the radio communication systems. The investigation showed that the malfunction of the relay 16XK was due to a dormant failure of the relay. This condition, if not detected and corrected, could lead, in case of loss of the connection of the main battery, to an excessive flight crew workload, possibly resulting in reduced control of the helicopter, if occurring while flying in Instrument Flight Rules (IFR) Meteorological Conditions. For the reasons described above, this AD requires a functional check of the relay 16XK of the emergency hydro-electrical power installation and, if the relay fails the check, replacement of the relay.
Effective Date:	13 March 2012

Required Action(s) and Compliance Time(s):	Required as indicated, unless accomplished previously: (1) Within the compliance time specified in Table 1 of this AD, as applicable to helicopter model, perform a functional check of the relay 16XK in accordance with the instructions of paragraph 3.B.2 of the applicable Eurocopter Alert Service Bulletin (ASB). Table 1 – Compliance Time and ASB <table border="1" data-bbox="606 403 1311 546"> <tr> <th>Helicopter</th><th>Compliance time</th><th>ASB N°</th></tr> <tr> <td>AS 332 L2</td><td>85 FH</td><td>AS332-05.00.93</td></tr> <tr> <td>EC 225 LP</td><td>110 FH</td><td>EC225-05A028</td></tr> </table> (2) If a relay 16XK does not pass the functional check as required by paragraph (1) of this AD, before next flight, replace the relay with a serviceable part in accordance with the instructions of paragraph 3.B.2 of Eurocopter ASB, as applicable to helicopter model.	Helicopter	Compliance time	ASB N°	AS 332 L2	85 FH	AS332-05.00.93	EC 225 LP	110 FH	EC225-05A028
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AS 332 L2	85 FH	AS332-05.00.93								
EC 225 LP	110 FH	EC225-05A028								
Ref. Publications:	Eurocopter AS332 Alert Service Bulletin N° AS332-05.00.93, Revision 0 dated 29 February 2012; Eurocopter EC225 Alert Service Bulletin N° EC225-05A028, Revision 0 dated 29 February 2012; The use of later approved revisions of these documents is acceptable for compliance with the requirements of this AD.									
Remarks :	(1) If requested and appropriately substantiated, EASA can approve 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 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 (STDl) – Aéroport de Marseille Provence, 13725 Marignane Cedex, France; telephone +33 (4) 12 85 97 97; facsimile +33 (4) 85 99 66; E-mail: Directive.technical-support@eurocopter.com.									