


EASA	AIRWORTHINESS DIRECTIVE	
	<p>AD No.: 2008-0184</p> <p>Date: 06 October 2008</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>		
Type Approval Holder's Name:		Type/Model designation(s):
EUROCOPTER		EC 130 helicopters
TCDS Number: EASA.R.008		
Foreign AD: Not applicable		
Supersedes: EASA AD 2006-0079 dated 03 April 2006		
ATA 76	Engine Controls – Twist Grip Drive Tube – Replacement / Inspection	
Manufacturer:	EUROCOPTER	
Applicability:	<p>EC 130 B4 helicopters, all serial numbers fitted with:</p> <ul style="list-style-type: none"> - twist grip assemblies part numbers (P/N) 350A27520900, 350A27520901, 350A27520902 or 350A27520903 on the pilot's side with serial numbers (S/N) below 64. - twist grip assemblies P/N 350A27521201 on the co-pilot side with S/N below 11 and between 22 and 66 (inclusive). - twist grip assemblies P/N 350A27521201 on the co-pilot side with S/N from 11 to 21 (inclusive) and no letter "V" on the lever base. 	
Reason:	<p>During autorotation training, a pilot experienced the loss of the engine fuel flow control function in which the engine remained at idle rating although the twist grip had been turned back to the flight position. The pilot continued the autorotation and landed the aircraft as expected. The loss of the engine fuel flow control function was caused by bonding separation of the RH pilot drive tube-to-pinion attachment.</p> <p>The TC Holder Quality Assurance department has detected a pinion bonding anomaly on certain RH pilot drive tube batches.</p> <p>AD 2006-0079 was issued following the above described occurrence. Its purpose was to mandate a check of the correct bonding strength of the control pinion on the pilot and co-pilot collective lever drive tubes.</p> <p>Analysis has revealed that the failure of the twist grip drive tube and</p>	

	<p>control pinion bonded attachment is due to the preparation of the bonding surfaces on the two components.</p> <p>Recent investigations also revealed other twist grip batches potentially affected by non appropriate surface preparation prior to bonding.</p> <p>Over time, such surface preparation creates a risk of failure of the bonded attachment of the drive tube and thus a risk of losing in flight the engine fuel flow control function, which under certain flight conditions may constitute an unsafe condition.</p> <p>The purpose of this AD, which supersedes AD 2006-0079 retaining its requirements, is to replace, in accordance with EUROCOPTER EC 130 Alert Service Bulletin (ASB) No. 76A002, the drive tubes of the concerned twist grips whose P/N and S/N are given in the Compliance section of this AD and to ensure for the remaining twist grips the correct bonding strength of the control pinion on the pilot and co-pilot collective lever drive tubes, in accordance with EUROCOPTER EC 130 Alert Service Bulletin (ASB) No. 76A001 Revision 1.</p>
Effective Date:	20 October 2008
Required Action(s) and Compliance Time(s):	<p>Required as indicated, unless accomplished previously:</p> <ol style="list-style-type: none"> 1. Replace the drive tube in co-pilot twist grip assembly P/N 350A27521201 with S/N from 11 to 21 (inclusive) and no letter "V" on the lever base in compliance with paragraph 2.B. of EUROCOPTER EC 130 ASB No. 76A002 within 110 flight hours or 9 months after the effective date of this AD, whichever occurs first. 2. Pending replacement of the twist grip drive tube as per paragraph 1. of this AD: in autorotation training, the manoeuvre must be carried out until the helicopter touches down (full autorotation). 3. From the effective date of this AD, no person shall install a twist grip assembly P/N 350A27521201 with S/N from 11 to 21 (inclusive) and no letter "V" on the lever base on a helicopter, unless the drive tube has been replaced and the collective lever marked in accordance with paragraphs 2.B.2. and 2.B.3. of EUROCOPTER EC 130 ASB No. 76A002. 4. From the effective date of this AD, no person shall install twist grip assemblies P/N 350A27520900, 350A27520901, 350A27520902 and 350A27520903 with S/N below 64 on the pilot's side or twist grip assembly P/N 350A27521201 with S/N below 11 and between 22 and 66 (inclusive) on the co-pilot's side, unless the bonding between the control pinion and the drive tube has been checked in accordance with paragraph 2.B.3. of EUROCOPTER EC 130 ASB No. 76A001 Revision 1 before installation on a helicopter.
Ref. Publications:	<p>EUROCOPTER EC 130 Alert Service Bulletin No. 76A002 Revision 0; EUROCOPTER EC 130 Alert Service Bulletin No. 76A001 Revision 1.</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"> 1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD. 2. Required actions and the risk assessment have warranted the immediate adoption of this Final AD with request for comments. 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.

	<p>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 (0) 4 42 85 97 97, Fax +33 (0) 4 42 85 99 66 E-mail Directive.technical-support@eurocopter.com.</p>
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