


EASA	AIRWORTHINESS DIRECTIVE	
	AD No.: 2014-0262	
	Date: 05 December 2014 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 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].		
Design Approval Holder's Name: EADS-CASA	Type/Model designation(s): CN-235 aeroplanes	
TCDS Number:	EASA.A.186	
Foreign AD:	Not applicable	
Supersedure:	This AD supersedes Dirección General de Aviación Civil (DGAC) of Spain AD No. 03/00, dated 28 March 2000.	
ATA 76	Engine Controls – Engine Control System Cables / Teleflex Cables – Replacement	
Manufacturer(s):	EADS-CASA; Construcciones Aeronáuticas S.A.(CASA)	
Applicability:	CN-235-100 and CN-235-200 aeroplanes, serial numbers from C-016 through C-073, inclusive.	
Reason:	<p>Three occurrences of cable disruption were reported in 1999. The failed parts, having a part number (P/N) 7-44728-20, were part of the engine control system assembly P/N 7-44728-12. Two cables were connected to the Power Lever and one cable to the Condition Lever control. Service records of the affected parts showed that each cable accumulated more than 14 000 flight cycles (FC).</p> <p>The subsequent investigation determined that the disruption was attributed to fatigue related crack.</p> <p>This condition, if not corrected, could lead to failure of the engine control system resulting in a loss of the affected engine control.</p> <p>Prompted by this unsafe condition, DGAC Spain issued AD 03/00 to require rigging of the throttle stops, and one-time replacement of the affected engine control cable assembly (P/N 7-44728-12), or the affected cable (P/N 7-44728-20) before exceeding 12 000 FC.</p> <p>After that AD was issued, a new occurrence of cable (P/N 72830-20) disruption was reported. In that case, the affected cable was part of the Condition Lever control and had accumulated 8 497 flight hours (FH) and 8 858 FC. Fractographic analysis of the affected cable identified that the fatigue nucleation seemed to have been induced by microcracks along the cable surface. Additionally, another case of control cable (P/N 72830-20) failure was</p>	

	<p>reported, where the affected part accumulated 9 936 FH and 10 552 FC and was part of the Power Lever control. Investigation of the latter case identified again a fatigue nucleation to be the cause of the cable failure.</p> <p>To address this potentially unsafe condition, Airbus Military issued Alert Operators Transmission (AOT) AOT-CN235-76-0001 to provide a repetitive replacement interval and instructions.</p> <p>For the reasons described above, this AD retains the requirements of DGAC Spain AD No. 03/00, which is superseded, but requires repetitive replacement of the affected Teleflex cables.</p>										
Effective Date:	19 December 2014										
Required Action(s) and Compliance Time(s):	<p>Required as indicated, unless accomplished previously:</p> <p>Re-statement of requirements of DGAC Spain AD No. 03/00:</p> <p>(1) Within 15 days after 12 April 2000 [the effective date of DGAC Spain AD No 03/00], accomplish a rigging of the throttle stops in accordance with the instructions of CASA COM 235-140.</p> <p>New requirements of this AD:</p> <p>(2) Within the threshold as defined in Table 1 of this AD and, thereafter, at intervals not to exceed 5 000 FC accumulated by a Teleflex cable P/N 72830-20, replace each Power lever and Condition Lever Teleflex cable P/N 72830-20 with a serviceable part in accordance with the instructions of Airbus Military AOT-CN235-76-0001.</p> <p style="text-align: center;">Table 1 – Teleflex Cable Replacement Threshold</p> <table border="1" data-bbox="515 1037 1460 1518"> <thead> <tr> <th data-bbox="515 1037 951 1144">FC accumulated by the Teleflex cable P/N 72830-20 on the effective date of this AD</th> <th data-bbox="951 1037 1460 1144">Compliance Time (since first installation on an aeroplane)</th> </tr> </thead> <tbody> <tr> <td data-bbox="515 1144 951 1193">Less than 4 700 FC</td> <td data-bbox="951 1144 1460 1193">Before exceeding 5 000 FC</td> </tr> <tr> <td data-bbox="515 1193 951 1301">Equal to or more than 4 700 FC but less than 6 000 FC</td> <td data-bbox="951 1193 1460 1301">Within 300 FC or 12 months after the effective date of this AD, whichever occurs first</td> </tr> <tr> <td data-bbox="515 1301 951 1411">Equal to or more than 6 000 FC but less than 7 000 FC</td> <td data-bbox="951 1301 1460 1411">Within 200 FC or 6 months after the effective date of this AD, whichever occurs first</td> </tr> <tr> <td data-bbox="515 1411 951 1518">Equal to or more than 7 000 FC</td> <td data-bbox="951 1411 1460 1518">Within 100 FC or 3 months after the effective date of this AD, whichever occurs first</td> </tr> </tbody> </table> <p>(3) From the effective date of this AD, installation of a Teleflex cable P/N 72830-20 on an aeroplane is allowed only, if the part is new or accumulated less than 5 000 FC since its first installation on an aeroplane.</p>	FC accumulated by the Teleflex cable P/N 72830-20 on the effective date of this AD	Compliance Time (since first installation on an aeroplane)	Less than 4 700 FC	Before exceeding 5 000 FC	Equal to or more than 4 700 FC but less than 6 000 FC	Within 300 FC or 12 months after the effective date of this AD, whichever occurs first	Equal to or more than 6 000 FC but less than 7 000 FC	Within 200 FC or 6 months after the effective date of this AD, whichever occurs first	Equal to or more than 7 000 FC	Within 100 FC or 3 months after the effective date of this AD, whichever occurs first
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Ref. Publications:	<p>CASA COM 235-140 revision 01, dated 21 March 2000.</p> <p>Airbus Military AOT-CN235-76-0001 original issue, dated 27 May 2014.</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> <p>2. This AD was posted on 04 November 2014 as PAD 14-164 for consultation until 02 December 2014. No comments were received during the consultation period.</p>										

	<p>3. Enquiries regarding this AD should be referred to the Safety Information Section, Certification Directorate, EASA. E-mail: ADs@easa.europa.eu.</p> <p>4. For any question concerning the technical content of the requirements in this AD, please contact: EADS CASA (Airbus Military) Services / Engineering Support e-mail: MTA.TechnicalService@military.airbus.com. Fax: +34 91 585 3127</p> <p>For US operators, contact alternatively: e-mail: TechnicalSupport@airbusmilitaryna.com.</p>
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