

<b>EASA</b>	<b>AIRWORTHINESS DIRECTIVE</b>	
	<p><b>AD No.: 2006 – 0159</b></p> <p><b>Date: 07 June 2006</b></p>	
<p>No person may operate an aircraft to which an Airworthiness Directive applies, except in accordance with the requirements of that Airworthiness Directive unless otherwise agreed with the Authority of the State of Registry.</p>		
<p><b>Type Approval Holder's Name :</b> AIRBUS</p>	<p><b>Type/Model designation(s) :</b> AIRBUS A330 Aircraft</p>	
<p>TCDS Number : EASA A.004</p>		
<p>Foreign AD : None</p>		
<p>Supersedure : DGAC AD 2003-357</p>		
<p><b>ATA 27</b></p>	<p><b>Flight Controls - Spoiler Servo-controls - Life limitations</b></p>	
<p>Manufacturer(s):</p>	<p>AIRBUS (formerly AIRBUS INDUSTRIE)</p>	
<p>Applicability:</p>	<p>AIRBUS A330 aircraft models -201, -202, -203, -223, -243, -301, -302, -303, -321, -322, -323, -341, -342 and -343, all serial numbers.</p> <p>This Airworthiness Directive (AD) is not applicable to aircraft on which AIRBUS modification 44670 has been embodied in production and delivered from 13 January 2006.</p> <p><u>Reminder:</u> The operator is responsible for ensuring that if a spoiler servo-control is installed on an aircraft for replacement purposes after embodiment of this AD, the conformity of the aircraft to this AD is not put into question.</p>	
<p>Reason:</p>	<p>In order to prevent hydraulic leakage of a S4 or MZ type spoiler servo-control following the initiation of fatigue cracks in the spoiler servo-control, which could lead to the loss of the function and the loss of its associated hydraulic system, and in the worst case may affect the three hydraulic systems.</p> <p>The DGAC AD 2003-357 required the removal and replacement of the spoiler servo-controls when they reach the operating life limit defined below, at the latest only for A330-200 series.</p>	

	<p>This new AD :</p> <ul style="list-style-type: none"> <li>- takes over the requirements of AD 2003-357, and</li> <li>- extends the applicability to A330-300 series for spoiler servo-controls "S4 types" only.</li> </ul>
<p>Effective Date:</p>	<p>21 June 2006</p>
<p>Compliance:</p>	<p><b>1. <u>AIRBUS A330-200 Series:</u></b></p> <p>The following measures are rendered mandatory from 11 October 2003 (effective date of the AD 2003-357):</p> <p>Unless already accomplished,</p> <p><b>1.1.</b> Not later than January 31, 2004 identify the Part Number (PN) of all S4 or MZ Type Spoiler servo-controls installed on aircraft, in accordance with AIRBUS Service Bulletin (SB) A330-27-3113 Revision 04.</p> <p><b>1.2.</b> Before accumulation, from the date of their first installation on aircraft, of 6,000 flights cycles (FC) for servo-controls installed in positions 2 to 6 and 11,000 FC for servo-controls installed in position 1, replace the S4 and MZ types spoiler servo-controls by 138X type spoiler servo-controls, in accordance with the instructions given in AIRBUS SB A330-27-3113 Revision 04.</p> <p><b>Note 1:</b> S4 or MZ type spoiler servo-controls removed from A330-200 shall be scrapped.</p> <p><b>Note 2:</b> A330-200 which have embodied in service the SB A330-27-3113 at original issue or revision 01 or revision 02 or revision 03 are in compliance with requirements of § 1. of this AD.</p> <p><b>2. <u>AIRBUS A330-300 Series:</u></b></p> <p>The following measures are rendered mandatory from the effective date of this AD:</p> <p>Unless already accomplished,</p> <p><b>2.1.</b> Not later than 31 August 2006, identify the Part Number of all Spoiler servo-controls installed on aircraft, in accordance with AIRBUS SB A330-27-3113 Revision 04.</p> <p><b>Note 3:</b> In the frame of this identification, AIRBUS SB A330-27-3113 Revision 04 provides instructions for inspection and identification of Spoiler Servo Controls.</p>

	<p><b>2.2.</b> If the PN of spoiler servo-control found is MZ type or 138X type, no further action is required by this AD.</p> <p><b>2.3.</b> If the PN of spoiler servo-control found is S4 type:</p> <p><b>2.3.1.</b> For S4 type Spoiler Servo controls installed on aircraft with known accumulated life in Flight Cycles Since New:</p> <p>before accumulation by the spoiler servo control of:</p> <ul style="list-style-type: none"> <li>- 14,000 cycles since new (CSN) for servo-controls installed in positions 2 to 6 and</li> <li>- 15,000 CSN for servo-controls installed in position 1,</li> </ul> <p>replace this spoiler servo-control by 138X type spoiler servo-control, in accordance with the instructions given in AIRBUS SB A330-27-3113 Revision 04.</p> <p><b>2.3.2</b> For S4 type Spoiler Servo controls installed on aircraft with unknown accumulated life in Flight Cycles Since New:</p> <p>At the time of the Spoiler Servo controls identification, apply current aircraft accumulated Flight Cycles to the affected S4 type Spoiler Servo controls and,</p> <p>replace S4 type Spoiler servo-controls installed in positions 2 to 6 by 138X type Spoiler Servo Control before the S4 type Spoiler servo-controls reaches 14000 FC in accordance with the instructions given in AIRBUS SB A330-27-3113 Revision 04 and,</p> <p>replace S4 type Spoiler servo-controls installed in position 1 by 138X type Spoiler Servo Control before the S4 type Spoiler servo-controls reaches 15000FC in accordance with the instructions given in AIRBUS SB A330-27-3113 Revision 04.</p> <p><b>Note 4:</b> S4 type spoiler servo-controls removed from A330-300 shall be scrapped.</p> <p><b>Note 5:</b> A330-300 which have embodied in service the SB A330-27-3113 revision 03 are in compliance with requirements of the paragraph 2 of this AD.</p>
Ref. Publications:	<p>AIRBUS Service Bulletin A330-27-3113 original issue</p> <p>AIRBUS Service Bulletin A330-27-3113 Revision 01</p> <p>AIRBUS Service Bulletin A330-27-3113 Revision 02</p> <p>AIRBUS Service Bulletin A330-27-3113 Revision 03</p>

	AIRBUS Service Bulletin A330-27-3113 Revision 04 or later approved revisions.
Remarks :	<ol style="list-style-type: none"><li>1. If requested and appropriately substantiated the responsible EASA manager for the related product has the authority to accept Alternative Method of Compliance (AMOCs) for this AD.</li><li>2. This AD was posted as PAD 06-057R1 for consultation on 11 May 2006 with a comment period until 22 May 2006. The Comment Response Document can be found at <a href="http://www.easa.europa.eu/home/aw_dir_en.html">http://www.easa.europa.eu/home/aw_dir_en.html</a> .</li><li>3. Enquiries regarding this Airworthiness Directive should be referred to Mr. M. Capaccio, Airworthiness Directive Focal Point - Certification Directorate, EASA. E-mail: <a href="mailto:ADs@easa.europa.eu">ADs@easa.europa.eu</a> .</li><li>4. For any question concerning the technical content of the requirements in this AD, please contact AIRBUS SAS – Airworthiness Office - EAL Fax: +33 5 61 93 45 80.</li></ol>

Superseded