

<b>EASA</b>	<b>AIRWORTHINESS DIRECTIVE</b>	
	<p><b>AD No.: 2011-0174</b></p> <p><b>Date: 08 September 2011</b></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>		
<p><b>Type Approval Holder's Name :</b> AIRBUS</p>	<p><b>Type/Model designation(s) :</b> Airbus A340-200/300 aeroplanes</p>	
<p>TCDS Number : EASA A.015</p>		
<p>Foreign AD : Not applicable</p>		
<p>Supersedure : None</p>		
<b>ATA 78</b>	<b>Exhaust – Thrust Reverser Outer Fixed Structure – Inspection / Replacement</b>	
<p>Manufacturer(s):</p>	<p>Airbus (formerly Airbus Industrie)</p>	
<p>Applicability:</p>	<p>Airbus A340-211, A340-212, A340-213, A340-311, A340-312 and A340-313 aeroplanes, all manufacturer serial numbers.</p>	
<p>Reason:</p>	<p>During inspection of an inner fixed structure (IFS) panel on an Airbus A340 thrust reverser (T/R), an outer fixed structure (OFS) panel was found disbanded. Further investigations indicated that the panel core was made of Alcore. Further investigations by Aircelle, the T/R manufacturer, resulted in the identification of a batch of T/R halves (C-ducts), potentially containing Alcore panels and initially assumed to be made of Hexcel core only.</p> <p>OFS disbonding, if not corrected, can lead to the non capability of the engine nacelle to sustain Fan Blade Out load, or to in flight detachment of the common nozzle assembly, due to latch fitting fatigue limitation, possibly resulting in damage to the aeroplane and/or injury to persons on the ground.</p> <p>For the reasons described above, this AD requires identification and inspection of the affected T/R components and, in case of findings, the accomplishment of applicable corrective actions. This AD also prohibits installation of any affected components held as spares, unless they have passed the inspection required by this AD.</p>	
<p>Effective Date:</p>	<p>22 September 2011</p>	

<p>Required Action(s) and Compliance Time(s):</p>	<p>Required as indicated, unless accomplished previously:</p> <ol style="list-style-type: none"> <li>(1) For aeroplanes that have a T/R half installed, as identified by serial number (S/N) in Appendix 1, Table 1, of this AD, after the accumulation by the T/R half of 10 000 flight cycles (FC), but without exceeding 12 800 FC since its first installation on an aeroplane, inspect the OFS panel by tap testing each affected T/R half and accomplish the applicable corrective actions, in accordance with the instructions of Airbus Service Bulletin (SB) A340-78-4041.</li> <li>(2) For T/R halves identified in Appendix 1, Table 1, of this AD and having accumulated, on the effective date of this AD, more than 12 800 FC since their first installation on an aeroplane, before next flight, contact an Aircelle representative to obtain the necessary approved instructions for corrective action and accomplish those instructions accordingly.</li> <li>(3) Accomplishment, before the effective date of this AD and after accumulation of 10 000 FC since its first installation on an aeroplane, of the instructions of Goodrich Aerostructures Group All Operators Letter (AOL) PUB0001714 Revision 01, or the instructions of CFM International SB No. CFM56-5C 78-0093 (Rohr Industries SB RA34078-93) on the affected T/R half, is acceptable to comply with requirements of paragraph (1) of this AD.</li> <li>(4) From the effective date of this AD, do not install on an aeroplane any T/R half having a S/N as identified in Appendix 1, Table 1, of this AD, unless it has been inspected and corrected in accordance with the instructions of Airbus SB A340-78-4041, except for the provisions of paragraph (2) of this AD.</li> </ol>
<p>Ref. Publications:</p>	<p>AIRBUS SB A340-78-4041 original issue dated 22 April 2011</p> <p>The use of later approved revisions of this document is acceptable for compliance with the requirements of this AD.</p> <p>Goodrich AOL PUB0001714 Revision 01 dated 13 September 2010.</p> <p>CFM International SB No. CFM56-5C 78-0093 dated 05 May 2011.</p> <p>ROHR INDUSTRIES INC. SB No. RA34078-93 dated 09 May 2011.</p>
<p>Remarks :</p>	<ol style="list-style-type: none"> <li>1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD.</li> <li>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.</li> <li>3. Enquiries regarding this AD should be referred to the Safety Information Section, Executive 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 – Airworthiness Office – EAL; E-mail: <a href="mailto:airworthiness.A330-A340@airbus.com">airworthiness.A330-A340@airbus.com</a>.</li> </ol>

## Appendix 1 – Thrust Reverser Halves Serial Numbers (S/N)

Table 1 – T/R Affected (with some exceptions, see Table 2 of this AD)

Rohr Industries Inc. S/N of affected T/R halves	Corresponding Aircelle S/N of affected T/R halves
0383001 to 0410001 inclusive	3191 to 3204 inclusive
0679001 to 1036001 inclusive	3341 to 3524 inclusive

Table 2 – T/R **Not Affected**

Rohr Industries Inc. S/N	Aircelle S/N	T/R Half Right Hand (RH) or Left Hand (LH)
0390001	3194	RH
0694001	3348	RH
0708001	3355	RH
0781001	3394	LH
0782001	3394	RH
0786001	3396	RH
0819001	3414	LH
0820001	3414	RH
0821001	3415	LH
0826001	3417	RH
0855001	3432	LH
0939001	3475	LH
0943001	3477	LH
0980001	3496	RH