




適航指令發布單

Airworthiness Directive Issuance Form

民航局AD編號 AD Number	CAA-2015-05-004	發布日期 Date issued	2015/5/15												
適用之航空產品 Applied to (models, serial numbers or part numbers, as applicable)	Airbus A330-201, A330-202, A330-203, A330-223, A330-223F, A330-243, A330-243F, A330-301, A330-302, A330-303, A330-321, A330-322, A330-323, A330-341, A330-342 and A330-343 aeroplanes, and Airbus A340-541, A340-542, A340-642 and A340-643 aeroplanes, from manufacturer serial number (MSN) 0715 to MSN 1507 inclusive, and MSN 1509, except aeroplanes on which all engines have been removed and/or replaced since Airbus date of manufacture.														
主旨摘要	Power Plant – Aft and Forward Engine Mount Bolts – Torque Check / Replacement														
民航局 CAA <input type="checkbox"/> 本國產品 Native products <input type="checkbox"/> 其他個案 Other	設計國民航主關機構 Original Authorities <table border="0"> <tr> <td><input type="checkbox"/> FAA</td> <td><input type="checkbox"/> Germany LBA</td> </tr> <tr> <td><input checked="" type="checkbox"/> EASA</td> <td><input type="checkbox"/> CAA-NL</td> </tr> <tr> <td><input type="checkbox"/> Brazil</td> <td><input type="checkbox"/> UK CAA</td> </tr> <tr> <td><input type="checkbox"/> Transport Canada Civil Aviation</td> <td><input type="checkbox"/> Japan CAB</td> </tr> <tr> <td><input type="checkbox"/> DGAC</td> <td><input type="checkbox"/> CAA of Israel</td> </tr> <tr> <td></td> <td><input type="checkbox"/> Other _____</td> </tr> </table>			<input type="checkbox"/> FAA	<input type="checkbox"/> Germany LBA	<input checked="" type="checkbox"/> EASA	<input type="checkbox"/> CAA-NL	<input type="checkbox"/> Brazil	<input type="checkbox"/> UK CAA	<input type="checkbox"/> Transport Canada Civil Aviation	<input type="checkbox"/> Japan CAB	<input type="checkbox"/> DGAC	<input type="checkbox"/> CAA of Israel		<input type="checkbox"/> Other _____
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	<input type="checkbox"/> Other _____														
	設計國AD編號 Original AD number	2015-0082													
	1. 直接採用原AD之內容?(Is the original AD directly adopted?) <input checked="" type="checkbox"/> 是(Yes) <input type="checkbox"/> 否(No) ____ a. 生效日期另訂為(Re-specify the effective date as) : _____ b. 執行時限另訂為(Re-specify the compliance time or period as) : _____ 2. 使用人是否需要將AD執行結果向民航局提出報告?(Do Users need to report the status of compliance to the CAA?) <input type="checkbox"/> 是(Yes) <input checked="" type="checkbox"/> 否(No)														
備註 Note	ATA 71. Ref. Publications: Airbus AOT A71L004-14 dated 01 April 2014, or Revision 01 dated 07 April 2014. and Airbus AOT A71L006-14 dated 22 July 2014. and Airbus AOT A71L005-14 dated 29 September 2014, or Revision 01 dated 11 December 2014. and Airbus AOT A71L008-14 dated 29 September 2014, or Revision 01 dated 18 December 2014. The use of later approved revisions of these documents is acceptable for compliance with the requirements of this AD.														
註： 1. AD內容後附。 2. 航空器產品使用人得向民航局提出豁免、替代符合方法、執行時限之展延之申請。 3. 如有任何問題，請聯絡交通部民用航空局初始適航科。Tel：(02)2349-6331~3, Fax：(02)2545-8464, e-mail：adcaa@mail.caa.gov.tw Note： 1. The AD text is enclosed. 2. Exemption, an alternative method of compliance or adjustment of the compliance time may be proposed to the CAA for approval. 3. For further information, please contact Civil Aeronautics Administration on Tel：(02)2349-6331~3, Fax：(02)2545-8464, e-mail：adcaa@mail.caa.gov.tw															

EASA	AIRWORTHINESS DIRECTIVE
	<p>AD No.: 2015-0082</p> <p>Date: 11 May 2015</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 EU 748/2012, Part 21.A.3B. In accordance with EU 1321/2014 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 [EU 1321/2014 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>Design Approval Holder's Name:</p> <p>AIRBUS</p>	<p>Type/Model designation(s):</p> <p>A330 and A340 aeroplanes</p>
<p>TCDS Number: EASA.A.004, EASA A.015</p>	
<p>Foreign AD: Not applicable</p>	
<p>Supersedure: None</p>	
ATA 71	Power Plant – Aft and Forward Engine Mount Bolts – Torque Check / Replacement
Manufacturer(s):	Airbus (formerly Airbus Industrie)
Applicability:	<p>Airbus A330-201, A330-202, A330-203, A330-223, A330-223F, A330-243, A330-243F, A330-301, A330-302, A330-303, A330-321, A330-322, A330-323, A330-341, A330-342 and A330-343 aeroplanes, and</p> <p>Airbus A340-541, A340-542, A340-642 and A340-643 aeroplanes,</p> <p>from manufacturer serial number (MSN) 0715 to MSN 1507 inclusive, and MSN 1509, except aeroplanes on which all engines have been removed and/or replaced since Airbus date of manufacture.</p>
Reason:	<p>In 2013, during a pre-delivery test on an A330 aeroplane fitted with Pratt & Whitney (PW) PW4170 engines, an issue with N1 vibrations level on ENG1 was identified. While performing an engine removal, one forward engine mount bolt was found improperly torqued. The investigation concluded this was due to a production line engine installation quality issue. Further analysis showed that some aeroplanes, delivered between June 2006 and January 2014, may have had the rear (AFT) and forward (FWD) engine mount bolts improperly torqued.</p> <p>This condition, if not detected and corrected, could ultimately lead to an in-flight detachment of the engine from the aeroplane, possibly resulting in damage to the aeroplane and/or injury to persons on the ground.</p> <p>Prompted by these findings, Airbus issued four Alert Operators Transmissions (AOT) A71L004-14 (for A330 aeroplanes fitted Pratt & Whitney (PW) engines), AOT A71L006-14 (for A330 aeroplanes fitted with General Electric (GE) engines), AOT A71L005-14 (for A330 aeroplanes fitted with Rolls Royce (RR)</p>

	<p>Trent 700 engines) and AOT A71L008-14 (for A340 aeroplanes fitted with RR Trent 500 engines) to provide torque check instructions.</p> <p>For the reasons described above, this AD requires a one-time torque check of the FWD and AFT engine mount bolts and, depending on findings, re-torque of the affected bolt(s) and/or replacement of all four bolts and associated nuts.</p>
Effective Date:	25 May 2015
Required Action(s) and Compliance Time(s):	<p>Required as indicated, unless accomplished previously:</p> <p>For the purpose of this AD, an affected engine is an engine that has never been removed and/or replaced since Airbus date of manufacture.</p> <p><u>For A330 aeroplanes fitted with PW engines:</u></p> <ol style="list-style-type: none"> (1) Within 2 000 flight hours (FH), or during accomplishment of Airbus Service Bulletin (SB) A330-71-3028, whichever occurs first after the effective date of this AD, accomplish a torque check of FWD and AFT engine mount bolts on each affected engine, at the locations as specified in, and in accordance with the instructions of Airbus AOT A71L004-14 Revision 01. (2) If, during the torque check as required by paragraph (1) of this AD, any discrepancy is detected, within the compliance time defined in Airbus AOT A71L004-14 Revision 01, depending on aeroplane configuration and flight cycles (FC) / FH accumulated by the aeroplane since aeroplane first flight, accomplish the applicable corrective actions (re-torque of each affected bolt and/or replacement of all four bolts and associated nuts) in accordance with the instructions of Airbus AOT A71L004-14 Revision 01. <p><u>For A330 aeroplanes fitted with GE engines:</u></p> <ol style="list-style-type: none"> (3) Within 2 000 FH after the effective date of this AD, accomplish a torque check of FWD and AFT engine mount bolts on each affected engine, at the locations as specified in, and in accordance with the instructions of Airbus AOT A71L006-14. (4) If, during the torque check as required by paragraph (3) of this AD, any discrepancy is detected, within the compliance time defined in Airbus AOT A71L006-14, depending on FC / FH accumulated by the aeroplane since aeroplane first flight, accomplish the applicable corrective actions (re-torque of each affected bolt and/or replacement of all bolts and associated nuts) in accordance with the instructions of Airbus AOT A71L006-14. <p><u>For A330 aeroplanes fitted with RR Trent 700 engines:</u></p> <ol style="list-style-type: none"> (5) Within 2 000 FH after the effective date of this AD, accomplish a torque check of FWD and AFT engine mount bolts on each affected engine, at the locations as specified in, and in accordance with the instructions of Airbus AOT A71L005-14 Revision 01. (6) If, during the torque check as required by paragraph (5) of this AD, any discrepancy is detected, within the compliance time defined in Airbus AOT A71L005-14 Revision 01, accomplish the applicable corrective actions (re-torque of each affected bolt and/or replacement of all four bolts and associated nuts/washers) in accordance with the instructions of Airbus AOT A71L005-14 Revision 01. <p><u>For A340 aeroplanes fitted with RR Trent 500 engines:</u></p> <ol style="list-style-type: none"> (7) Within 2 000 FH after the effective date of this AD, accomplish a torque check of FWD and AFT engine mount bolts on each affected engine, at the locations as specified in, and in accordance with the instructions of Airbus AOT A71L008-14 Revision 01. (8) If, during the torque check as required by paragraph (7) of this AD, any discrepancy is detected, within the compliance time defined in Airbus AOT

	<p>A71L008-14 Revision 01, accomplish the applicable corrective actions (re-torque of each affected bolt and/or replacement of all four bolts and associated nuts/washers) in accordance with the instructions of Airbus AOT A71L008-14 Revision 01.</p> <p><u>For all A330 aeroplanes and A340-500/-600 aeroplanes:</u></p> <p>(9) A torque check of all FWD and AFT engine mount bolts of each affected engine on an aeroplane, accomplished before the effective date of this AD, in accordance with the instructions of Airbus AOT A71L004-14 or AOT A71L005-14 or A71L008-14 at original issue, as applicable, is an acceptable method to comply with the requirements of paragraphs (1), (5) and (7) of this AD, as applicable, for that aeroplane, provided that no discrepancy was detected during the torque check.</p> <p>(10) Within 30 days after the torque check as required by this AD, or within 30 days after the effective date of this AD, whichever occurs later, report the results of this check (including no discrepancies) to Airbus.</p>
Ref. Publications:	<p>Airbus AOT A71L004-14 dated 01 April 2014, or Revision 01 dated 07 April 2014.</p> <p>Airbus AOT A71L006-14 dated 22 July 2014.</p> <p>Airbus AOT A71L005-14 dated 29 September 2014, or Revision 01 dated 11 December 2014.</p> <p>Airbus AOT A71L008-14 dated 29 September 2014, or Revision 01 dated 18 December 2014.</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. Based on the required actions and the compliance time, EASA have decided to issue a Final AD with Request for Comments, postponing the public consultation process until after publication. 3. Enquiries regarding this AD should be referred to the Safety Information Section, Certification Directorate, EASA. E-mail: ADs@easa.europa.eu. 4. For any question concerning the technical content of the requirements in this AD, please contact: Airbus – Airworthiness Office – EIAL; E-mail: airworthiness.A330-A340@airbus.com.