



適航指令發布單

Airworthiness Directive Issuance Form

民航局AD編號 AD Number	CAA-2015-09-008	發布日期 Date issued	2015/10/1
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, all manufacturer serial numbers (MSN), and Airbus A340-211, A340-212, A340-213, A340-311, A340-312, A340-313, A340-541, A340-542, A340-642 and A340-643 aeroplanes, all MSN, except those that have embodied Airbus modification (mod) 202702 and mod 202790 in production.		
主旨摘要	Doors – Forward and Aft Cargo Compartment Doors – Inspection		
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 <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 _____		
	設計國AD編號 Original AD number	2015-0192	
	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 52. This AD supersedes EASA AD 2011-0007R1(CAA-2011-01-008A) dated 14 February 2011 and EASA AD 2012-0274 dated 21 December 2012. Ref. Publications: Airbus SB A330-52-3087 original issue dated 29 August 2013, or Revision 01 dated 09 July 2014. and Airbus SB A340-52-4095 original issue dated 29 August 2013, or Revision 01 dated 09 July 2014. and Airbus SB A340-52-5020 original issue dated 29 August 2013, or Revision 01 dated 09 July 2014. and Airbus SB A330-52-3095 original issue dated 29 August 2013, or Revision 01 dated 28 July 2014. and Airbus SB A340-52-4101 original issue dated 29 August 2013, or Revision 01 dated 03 October 2014. and Airbus SB A340-52-5023 original issue dated 29 August 2013, or Revision 01 dated 28 July 2014. and Airbus AOT A330-52A3084 original issue dated 19 December 2010. and Airbus AOT A330-52A3085 original issue dated 20 December 2010. and Airbus AOT A330-A52L001-12 original issue dated 20 December 2010. and Airbus AOT A330-A52L003-12 original issue dated 03 December 2012. and Airbus AOT A340-52A4091 original issue dated 20 December 2010. and Airbus AOT A340-52A4092 original issue dated 20 December 2010. and Airbus AOT A340-A52L002-12 original issue dated 03 December 2012. and Airbus AOT A340-A52L004-12 original issue dated 03 December 2012. 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.: 2015-0192</p> <p>Date: 21 September 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: AIRBUS</p>	<p>Type/Model designation(s): A330 and A340 aeroplanes</p>	
<p>TCDS Number: EASA.A.004 and EASA.A.015</p>		
<p>Foreign AD: Not applicable</p>		
<p>Supersedure: This AD supersedes EASA AD 2011-0007R1 dated 14 February 2011 and EASA AD 2012-0274 dated 21 December 2012.</p>		
<p>ATA 52</p>	<p>Doors – Forward and Aft Cargo Compartment Doors – Inspection</p>	
<p>Manufacturer(s):</p>	<p>Airbus (formerly Airbus Industrie)</p>	
<p>Applicability:</p>	<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, all manufacturer serial numbers (MSN), and</p> <p>Airbus A340-211, A340-212, A340-213, A340-311, A340-312, A340-313, A340-541, A340-542, A340-642 and A340-643 aeroplanes, all MSN, except those that have embodied Airbus modification (mod) 202702 <u>and</u> mod 202790 in production.</p>	
<p>Reason:</p>	<p>Several cases of cracked forward (FWD) and aft (AFT) cargo door frames, as well as loose, lost, or sheared rivets, have been reported by operators. Investigation showed that these findings are due to the low margins with respect to fatigue requirements for the AFT/FWD cargo door internal structure. Further analysis determined that the cargo door hook adjustment is a contributing factor to this issue. In case of a cracked or ruptured (FWD or AFT) cargo door frame, the loads will be transferred to the remaining structural elements. However, the secondary load path is able to sustain those loads only for a limited number of flight cycles (FC).</p> <p>This condition, if not detected and corrected, could lead to rupture of adjacent vertical frames and consequent reduced structural integrity of the FWD or AFT cargo door, possibly resulting in a cargo door failure, decompression of the aeroplane and injury to occupants.</p>	

	<p>To initially address this potential unsafe condition, Airbus issued Service Bulletin (SB) A330-52-3043 and SB A340-52-4053 and consequently, DGAC France issued AD 2001-124(B) and AD 2001-126(B), requiring a special detailed inspection of A330 and A340 AFT cargo doors.</p> <p>Since those ADs were issued, prompted by new occurrences, Airbus issued Alert Operators Transmission (AOT) A330-52A3085, AOT A340-52A4092, AOT A330-52A3084, AOT A340-52A4091, AOT A330-A52L003-12, AOT 340-A52L004-12, AOT A330-A52L001-12 and AOT A340-A52L002-12, providing instructions to inspect the affected areas of both FWD and AFT cargo doors.</p> <p>Consequently, EASA issued AD 2011-0007 (later revised), and AD 2012-0274, to require repetitive detailed visual inspections of AFT and FWD cargo doors at specific frames and outer skin at all frame fork ends.</p> <p>Since these EASA ADs were issued, Airbus published SB A330-52-3087, SB A330-52-3095, SB A340-52-4095, SB A340-52-4101, SB A340-52-5020 and SB A340-52-5023, which took over the instructions of the above mentioned AOTs, and introduced revised thresholds and intervals. In addition, the inspection programme was expanded to apply to A340-500/-600 aeroplanes.</p> <p>Taking into account experience from inspections accomplished in accordance with the affected (listed above) Airbus SBs at original issue, Airbus issued Revision 01 of these SBs.</p> <p>This AD, which supersedes EASA AD 2011-0007R1 and EASA AD 2012-0274, requires for each FWD and AFT cargo door, a one-time inspection / adjustment of the hook gaps "U" and "V", repetitive detailed inspections (DET) of all frame fork areas, frame head areas and outer skin areas to detect loose / sheared / missing fasteners or cracks, and, depending on findings, accomplishment of applicable corrective action(s).</p> <p>In addition, this AD expands the Applicability to Airbus A340-500/-600 aeroplanes.</p> <p>It should be noted that additional inspections exist for the cargo doors, as specified in Airbus A330 ALS Part 2 task 523211-02-01 and task 523211-02-02 and in Airbus A340 ALS Part 2 Task 523211-02-01.</p>
Effective Date:	05 October 2015
Required Action(s) and Compliance Time(s):	<p>Required as indicated, unless accomplished previously:</p> <p>FWD Cargo Compartment Doors:</p> <p>(1) Before exceeding 5 300 FC since first installation of the FWD cargo door on an aeroplane, or within the compliance time specified in Appendix - Table 1 of this AD, whichever occurs later, and, thereafter, at intervals not to exceed 1 100 FC, accomplish a DET inspection of all frame forks areas, frame head areas and outer skin areas of the FWD cargo door, depending on inspection area, in accordance with the instructions of Airbus SB A330-52-3087 Revision 01, or SB A340-52-4095 Revision 01, or SB A340-52-5020 Revision 01, as applicable to aeroplane type and model.</p> <p>Concurrent with the first inspection as required by paragraph (1) of this AD, accomplish a one-time inspection of the FWD cargo door hook gaps "U" and "V" and, depending on findings, adjust the hook(s) in accordance with the instructions of Airbus SB A330-52-3087 Revision 01, or SB A340-52-4095 Revision 01, or SB A340-52-5020 Revision 01, as applicable to aeroplane type and model.</p> <p>(2) An inspection, accomplished before the effective date of this AD in accordance with the instructions of the original issue of Airbus SB A330-52-3087, or SB A340-52-4095, or SB A340-52-5020, as applicable, is acceptable to comply with the initial inspection as required by paragraph</p>

	<p>(1) of this AD, provided that the actions identified as 'additional work' in accordance with the instructions of Airbus SB A330-52-3087 Revision 01, or SB A340-52-4095 Revision 01, or SB A340-52-5020 Revision 01, as applicable to aeroplane type and model, are accomplished within 1 100 FC after that inspection.</p> <p>AFT Cargo Compartment Doors:</p> <p>(3) Before exceeding 4 000 FC for pre-mod aeroplanes (see Note 1 of this AD) or 12 000 FC for post-mod aeroplanes (see Note 1 of this AD) since first installation of the AFT cargo door on an aeroplane, as applicable, or within the compliance time specified in Appendix - Table 2 or Table 3 of this AD, as applicable, whichever occurs later, and, thereafter, at intervals not to exceed 550 FC, accomplish a DET inspection of all frame fork areas, frame head areas and outer skin area of the AFT cargo door, depending on inspection area, in accordance with the instructions of Airbus SB A330-52-3095 Revision 01, or SB A340-52-4101 Revision 01, or SB A340-52-5023 Revision 01, as applicable to aeroplane type and model.</p> <p>Concurrent with the first inspection as required by this paragraph, accomplish a one-time inspection of the AFT cargo door hook gaps "U" and "V" and, depending on findings, adjust the hook(s) in accordance with the instructions of Airbus SB A330-52-3095 Revision 01, or SB A340-52-4101 Revision 01, or SB A340-52-5023 Revision 01, as applicable to aeroplane type and model.</p> <p>Note 1: For the purpose of this AD, pre-mod A330 and A340-200/-300 aeroplanes are defined as not having Airbus mod 44852, or mod 44854 applied in production, or being in pre-SB A330-52-3044 or pre-SB A340-52-4054 configuration, as applicable. Post-mod A330 and A340-200/-300 aeroplanes are defined as having Airbus mod 44852 or mod 44854 applied in production, or modified in service through Airbus SB A330-52-3044, or SB A340-52-4054, as applicable.</p> <p>(4) An inspection, accomplished before the effective date of this AD in accordance with the instructions of the original issue of Airbus SB A330-52-3095, or SB A340-52-4101, or SB A340-52-5023, as applicable, is acceptable to comply with the initial inspection as required by paragraph (3) of this AD, provided that the actions identified as 'additional work' in accordance with the instructions of Airbus SB A330-52-3095 Revision 01, or SB A340-52-4101 Revision 01, or SB A340-52-5023 Revision 01, as applicable to aeroplane type and model, are accomplished within 550 FC after that inspection.</p> <p>Corrective Actions for FWD and AFT Cargo Compartment Doors:</p> <p>(5) If, during any DET as required by paragraph (1) or (3) of this AD, as applicable, any discrepancy is detected, before next flight, accomplish the applicable correctives action(s) in accordance with the instructions of Airbus SB A330-52-3087 Revision 01, or SB A340-52-4095 Revision 01, or SB A340-52-5020 Revision 01, SB A330-52-3095 Revision 01, or SB A340-52-4101 Revision 01, or SB A340-52-5023 Revision 01, as applicable to cargo compartment door, aeroplane type and model.</p> <p>(6) Accomplishment of corrective actions on an aeroplane as required by paragraph (5) of this AD does not constitute terminating action for the repetitive DET as required by this AD for that aeroplane.</p>
Ref. Publications:	<p>Airbus SB A330-52-3087 original issue dated 29 August 2013, or Revision 01 dated 09 July 2014.</p> <p>Airbus SB A340-52-4095 original issue dated 29 August 2013, or Revision 01 dated 09 July 2014.</p> <p>Airbus SB A340-52-5020 original issue dated 29 August 2013, or Revision 01</p>

	<p>dated 09 July 2014.</p> <p>Airbus SB A330-52-3095 original issue dated 29 August 2013, or Revision 01 dated 28 July 2014.</p> <p>Airbus SB A340-52-4101 original issue dated 29 August 2013, or Revision 01 dated 03 October 2014.</p> <p>Airbus SB A340-52-5023 original issue dated 29 August 2013, or Revision 01 dated 28 July 2014.</p> <p>Airbus AOT A330-52A3084 original issue dated 19 December 2010.</p> <p>Airbus AOT A330-52A3085 original issue dated 20 December 2010.</p> <p>Airbus AOT A330-A52L001-12 original issue dated 20 December 2010.</p> <p>Airbus AOT A330-A52L003-12 original issue dated 03 December 2012.</p> <p>Airbus AOT A340-52A4091 original issue dated 20 December 2010.</p> <p>Airbus AOT A340-52A4092 original issue dated 20 December 2010.</p> <p>Airbus AOT A340-A52L002-12 original issue dated 03 December 2012.</p> <p>Airbus AOT A340-A52L004-12 original issue dated 03 December 2012. 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. This AD was posted on 28 July 2015 as PAD 15-101 for consultation until 25 August 2015. The Comment Response Document can be found at http://ad.easa.europa.eu/. 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 – EAL. E-mail: airworthiness.A330-A340@airbus.com.

Appendix

Note 2: For the purpose of this AD, as soon as a Cargo Door is inspected with any applicable SB specified in this AD, the previous inspections accomplished in accordance with any AOT can be disregarded for the determination of the compliance time for the initial inspection required by this AD.

Table 1 – FWD Cargo Door Inspection

Aeroplane Condition (on the effective date of this AD)	Compliance Time
Never inspected	Within 1 100 FC after the effective date of this AD, but without exceeding 6 400 FC since first installation of the FWD cargo door on an aeroplane
Inspected only in accordance with Airbus AOT A330-52A3085 or AOT A340-52A4092, as applicable	Within 1 100 FC after the last inspection, but without exceeding 10 600 FC since first installation of the FWD cargo door on an aeroplane
Inspected in accordance with Airbus AOT A330-52A3085 and in accordance with AOT A330-A52L003-12, and the last inspection was accomplished in accordance with A330-A52L003-12	within 1 100 FC after the last inspection in accordance with AOT A330-52A3085
Inspected in accordance with Airbus AOT A330-52A3085 and in accordance with AOT A330-A52L003-12, and the last inspection was accomplished in accordance with AOT A330-52A3085	within 1 100 FC after the last inspection in accordance with AOT A330-A52L003-12
Inspected in accordance with Airbus AOT A340-52A4092 and in accordance with AOT A340-A52L004-12, and the last inspection was accomplished in accordance with AOT A340-A52L004-12	within 1 100 FC after the last inspection in accordance with AOT A340-52A4092
Inspected in accordance with Airbus AOT A340-52A4092 and in accordance with AOT A340-A52L004-12, and the last inspection was accomplished in accordance with AOT A340-52A4092	within 1 100 FC after the last inspection in accordance with AOT A340-A52L004-12
Inspected in accordance with Airbus SB A330-52-3087, or SB A340-52-4095, or SB A340-52-5020 as applicable	See paragraph (2) of this AD

Table 2 – AFT Cargo Door Inspection for pre-mod Aeroplanes

Aeroplane Condition (on the effective date of this AD)	Compliance Time
Never inspected	Within 550 FC after the effective date of this AD, but without exceeding 4 550 FC since first installation of the AFT cargo door on an aeroplane
Inspected only in accordance with Airbus AOT A330-52A3084, or AOT A340-52A4091, as applicable	Within 550 FC after the last inspection, but without exceeding 15 800 FC since first installation of the AFT cargo door on an aeroplane
Inspected in accordance with Airbus AOT A330-52A3084 and in accordance with AOT A330-A52L001-12, and the last inspection was accomplished in accordance with AOT A330-A52L001-12	within 550 FC after the last inspection in accordance with AOT A330-52A3084
Inspected in accordance with Airbus AOT A330-52A3084 and in accordance with AOT A330-A52L001-12 and, the last inspection was accomplished in accordance with AOT A330-52A3084	within 550 FC after the last inspection in accordance with AOT A330-A52L001-12
Inspected in accordance with Airbus AOT A340-52A4091 and in accordance with AOT A340-A52L002-12, and the last inspection was accomplished in accordance with AOT A340-A52L002-12	within 550 FC after the last inspection in accordance with AOT A340-52A4091
Inspected in accordance with Airbus AOT A340-52A4091 and in accordance with AOT A340-A52L002-12, and the last inspection was accomplished in accordance with AOT A340-52A4091	within 550 FC after the last inspection in accordance with AOT A340-A52L002-12
Inspected in accordance with Airbus SB A330-52-3095, or SB A340-52-4101, as applicable	See paragraph (4) of this AD

Table 3 – AFT Cargo Door Inspection for post-mod Aeroplanes and for A340-500/-600 Aeroplanes

Aeroplane Condition (on the effective date of this AD)	Compliance Time
Never inspected	Within 550 FC after the effective date of this AD, but without exceeding 12 550 FC since first installation of the AFT cargo door on an aeroplane
Inspected in accordance with Airbus SB A330-52-3095, or SB A340-52-4101, or SB A340-52-5023, as applicable	See paragraph (4) of this AD