

 適航指令發布單 Airworthiness Directive Issuance Form			
民航局 AD 編號 AD number	CAA-2018-01-002	發布日期 Date issued	2018/1/15
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, A330-343 aeroplanes, and A340-211, A340-212, A340-213, A340-311, A340-312 and A340-313 aeroplanes, all manufacturer serial numbers (MSN) up to MSN 1779 inclusive, except those on which Airbus Service Bulletin (SB) A330-53-3275 or SB A340-53-4238 has been embodied.		
主旨摘要	Fuselage - Fuselage Bulk Cargo Door Frames - Inspection / Repair		
民航局 CAA <input type="checkbox"/> 本國產品 Native products <input type="checkbox"/> 其他個案 Other	設計國民航主管機構 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	2018-0005	
	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 53. This AD supersedes EASA AD 2016-0102(CAA-2016-06-002 修訂) dated 01 June 2016, including its Correction dated 07 June 2016.		
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			



Airworthiness Directive

AD No.: 2018-0005

Issued: 10 January 2018

Note: This Airworthiness Directive (AD) is issued by EASA, acting in accordance with Regulation (EC) 216/2008 on behalf of the European Union, 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 Regulation (EU) 748/2012, Part 21.A.3B. In accordance with Regulation (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 [Regulation (EU) 1321/2014 Annex I, Part M.A.303] or agreed with the Authority of the State of Registry [Regulation (EC) 216/2008, Article 14(4) exemption].

Design Approval Holder's Name:

AIRBUS

Type/Model designation(s):

A330 and A340 aeroplanes

Effective Date: 24 January 2018

TCDS Number(s): EASA.A.004 and EASA.A.015

Foreign AD: Not applicable

Supersedure: This AD supersedes EASA AD 2016-0102 dated 01 June 2016, including its Correction dated 07 June 2016.

ATA 53 – Fuselage – Fuselage Bulk Cargo Door Frames – Inspection / Repair

Manufacturer(s):

Airbus (formerly Airbus Industrie)

Applicability:

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, A330-343 aeroplanes,

and A340-211, A340-212, A340-213, A340-311, A340-312 and A340-313 aeroplanes,

all manufacturer serial numbers (MSN) up to MSN 1779 inclusive, except those on which Airbus Service Bulletin (SB) A330-53-3275 or SB A340-53-4238 has been embodied.

Reason:

In the frame of the certification of the A330 Extended Service Goal exercise, it was identified that Tartaric Sulfuric Anodising (TSA) or Chromic Acid Anodising (CAA) surface treatment is present in some frame holes, from aeroplane MSN 0400 and later MSN, following production process modification. On bulk cargo door frames (FR) 67 and FR69 right hand (RH) side, the door fitting attachment holes have this TSA or CAA treatment, which leads to a detrimental effect on fatigue behaviour.



This condition, if not detected and corrected, could lead to cracks in the primary structure, possibly resulting in in-flight loss of a bulk cargo door, consequent decompression and potential damage to, and reduced control of, the aeroplane.

To initially address this potential unsafe condition, Airbus issued Alert Operators Transmission (AOT) A53L012-16 to provide instructions to inspect the fuselage bulk cargo door frames at specific locations. Consequently, EASA issued AD 2016-0102, requiring repetitive non-destructive test (rototest and high-frequency eddy-current (HFEC)) inspection or visual detailed inspections (DET) of the affected areas, and, depending on findings, accomplishment of a repair.

Since that AD was issued, it was determined that only aeroplanes from MSN 0400 to MSN 1779 are affected by CAA or TSA surface treatment issue in the door fitting attachment holes. However, it was also determined that aeroplanes MSN 0001 to MSN 0399 are affected in the same attachment holes due to a fatigue issue, therefore the same inspections must also be accomplished on these aeroplanes. In addition, based on inspection results and calculation, Airbus redefined inspection thresholds and intervals, depending on aeroplane type, model and utilisation. Airbus published SB A330-53-3278 and SB A340-53-4239 providing the inspection instructions at the specific locations with extended inspection thresholds and intervals. Airbus also determined that the actions should not be required for A340-500 and -600 models, as for these aeroplanes, the unsafe condition would only develop beyond the Design Service Goal of these aeroplanes. Finally, Airbus developed modification (mod) 206409 and published associated SB A330-53-3275 and SB A340-53-4238, as applicable, as optional terminating action.

For the reasons described above, this AD retains the requirements of EASA AD 2016-0102, which is superseded, expands the Applicability and requires redefined repetitive inspections of the holes at the upper and lower door support fittings of FR67 and FR69 RH and the holes at door latch fitting of FR69 RH. This AD also introduces an optional modification, which constitutes terminating action for the repetitive inspections as required by this AD.

Required Action(s) and Compliance Time(s):

Required as indicated, unless accomplished previously:

Note 1: Airbus SB A330-53-3278 and SB A340-53-4239, as applicable, are hereafter collectively referred to as 'the applicable SB' in this AD.

Note 2: Depending on utilisation of the aeroplane, either in short range (SR) or long range (LR) operation, the corresponding thresholds and intervals in flight cycles (FC) or flight hours (FH), as specified in Table 1 and Table 3 of this AD, must be applied. For more information, refer to the applicable SB, and Airbus Operator Information Telex (OIT) 999.086/11.

- (1) Before exceeding the thresholds specified in Table 1 of this AD, or within 200 FC (aeroplanes MSN 0001 to 0399) or 800 FC (aeroplanes MSN 0400 to 1779) after the effective date of this AD, as applicable, whichever occurs later, and, thereafter, depending on the area(s) inspected and the chosen inspection method as defined in Table 2 of this AD, at intervals not exceeding the values specified in Table 3 of this AD, inspect the holes at the upper and lower door support fittings of FR67 and FR69 RH side and the holes at door latch fitting of FR69 RH side in accordance with the instructions of the applicable SB.



Table 1 – Initial Inspection (See Notes 2 and 3 of this AD)

Affected Aeroplanes	MSN	Inspection Threshold (FC or FH, whichever occurs first)	
A330 (except 200F), A340-200 and A340-300	0001 to 0399	SR	27 100 FC or 83 900 FH
		LR	23 600 FC or 133 100 FH
	0400 to 1779	SR	16 000 FC or 49 500 FH
		LR	13 900 FC or 78 600 FH
A330-223F and A330-243F	All	11 300 FC or 34 000 FH	

Note 3: FC and FH specified in Table 1 of this AD are those accumulated by the aeroplane since first flight.

Table 2 – Areas and Inspection Methods (See Note 4 of this AD)

Action	Area(s) to be inspected	Inspection Method(s)
1	Any	DET
2	Upper and lower door support fitting holes	rototest
	Latch fitting holes	HFEC
3	Upper door support fitting hole	HFEC and ultrasonic

Note 4: The kind of inspection applied to an area, as specified in Table 2 of this AD, determines the inspection interval, i.e. the compliance time(s) for the next due inspection, as specified in Table 3 of this AD. Alternating between inspection methods, or intermixing, is allowed and for each area, the inspection interval (see Table 3 below) applies, depending on the method used during the latest inspection.

Table 3 – Inspection Intervals (See Note 2 of this AD)

Action/ Area(s)	Affected Aeroplanes	Inspection Interval (FC or FH, whichever occurs first)	
1	All	150 FC	
2	A330 (except -200F), A340-200 and A340-300	SR	3 300 FC or 10 300 FH
		LR	2 900 FC or 16 400 FH
	A330-223F and -243F	2 700 FC or 8 300 FH	
3	A330 (except -200F), A340-200 and A340-300	SR	1 700 FC or 6 100 FH
		LR	1 400 FC or 8 400 FH
	A330-223F and -243F	1 700 FC or 5 200 FH	



Corrective Action(s):

- (2) If, during any inspection as required by paragraph (1) of this AD, as applicable, any discrepancy is detected, before next flight, contact Airbus for approved repair instructions and, within the compliance time(s) specified in those instructions, accomplish those instructions accordingly.

Credit for previous action(s):

- (3) Inspections and corrective actions on an aeroplane, accomplished before the effective date of this AD in accordance with the instructions of Airbus AOT A53L012-16 original issue or revision 1, are acceptable to comply with the initial inspection as required by this AD for that aeroplane.

Terminating Action:

- (4) Accomplishment of a repair on an aeroplane, as required by paragraph (2) of this AD, does not constitute terminating action for the inspections as required by this AD for that aeroplane, unless otherwise specified in the Airbus repair instructions.
- (5) Modification of an aeroplane in accordance with the instructions of Airbus SB A330-53-3275 or SB A340-53-4238 (removal of TSA or CAA in the final holes of the bulk door frames FR67 and FR69), as applicable, constitutes terminating action for the repetitive inspections required by paragraph (1) of this AD for that aeroplane.

Ref. Publications:

Airbus SB A330-53-3275 original issue dated 22 August 2017.

Airbus SB A330-53-3278 original issue dated 22 August 2017.

Airbus SB A340-53-4238 original issue dated 08 September 2017.

Airbus SB A340-53-4239 original issue dated 05 September 2017.

Airbus AOT A53L012-16 original issue dated 30 May 2016, or Revision 1 dated 09 March 2017.

The use of later approved revisions of these documents is acceptable for compliance with the requirements of this AD.

Remarks:

1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD.
2. This AD was posted on 07 November 2017 as PAD 17-157 for consultation until 05 December 2017. The Comment Response Document can be found in the [EASA Safety Publications Tool](#), in the compressed (zipped) file attached to the record for this AD.
3. Enquiries regarding this AD should be referred to the EASA Safety Information Section, Certification Directorate. 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.

