



## 適航指令發布單

### Airworthiness Directive Issuance Form

民航局 AD 編號 AD number	CAA-2020-11-003	發布日期 Date issued	2020/11/12
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, A330-743L, A330-841 and A330-941 aeroplanes, all manufacturer serial numbers (MSN).		
主旨摘要	Flight Controls - Slat Geared Rotary Actuators - Repair / Replacement		
民航局 CAA <input type="checkbox"/> 本國產品 Native products <input type="checkbox"/> 其他個案 Other	設計國民航主管機構 Original Authorities <div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <input type="checkbox"/> FAA  <input checked="" type="checkbox"/> EASA  <input type="checkbox"/> Brazil  <input type="checkbox"/> Transport Canada Civil Aviation  <input type="checkbox"/> DGAC             </div> <div style="width: 48%;"> <input type="checkbox"/> Germany LBA  <input type="checkbox"/> CAA-NL  <input type="checkbox"/> UK CAA  <input type="checkbox"/> Japan CAB  <input type="checkbox"/> CAA of Israel  <input type="checkbox"/> Other _____             </div> </div>		
	設計國 AD 編號 Original AD number	2020-0245	
	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) : _____ <input type="checkbox"/>		
	2. 使用人是否需要將 AD 執行結果向民航局提出報告?(Do <input type="checkbox"/> 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	This AD supersedes EASA AD 2019-0093(CAA-2019-04-009) dated 26 April 2019.		
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： <a href="mailto:adcaa@mail.caa.gov.tw">adcaa@mail.caa.gov.tw</a> 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： <a href="mailto:adcaa@mail.caa.gov.tw">adcaa@mail.caa.gov.tw</a>			



## Airworthiness Directive

**AD No.:** 2020-0245

**Issued:** 09 November 2020

Note: This Airworthiness Directive (AD) is issued by EASA, acting in accordance with Regulation (EU) 2018/1139 on behalf of the European Union, its Member States and of the European third countries that participate in the activities of EASA under Article 129 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 (EU) 2018/1139, Article 71 exemption].

**Design Approval Holder's Name:**

AIRBUS

**Type/Model designation(s):**

A330 aeroplanes

**Effective Date:** 23 November 2020

**TCDS Number(s):** EASA.A.004

**Foreign AD:** Not applicable

**Supersedure:** This AD supersedes EASA AD 2019-0093 dated 26 April 2019.

### ATA 27 – Flight Controls – Slat Geared Rotary Actuators – Repair / Replacement

**Manufacturer(s):**

Airbus

**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, A330-743L, A330-841 and A330-941 aeroplanes, all manufacturer serial numbers (MSN).

**Definitions:**

For the purpose of this AD, the following definitions apply:

**The SB:** Airbus Service Bulletin (SB) A330-27-3233.

**The Liebherr SB:** Liebherr-Aerospace Lindenberg GmbH (Liebherr) SB 926C-27-01.

**Affected part:** Slat geared rotary actuators (SGRA), having Part Number 926C0000-01 and a serial number (s/n) as identified in the SB or in the Liebherr SB (the s/n list in each SB is identical), except those that have passed (no defects found) an inspection, or have been repaired, as applicable, in accordance with the instructions of the Liebherr SB.

**Serviceable part:** An SGRA that is not an affected part.



**Groups:** Group 1 aeroplanes are those that have an affected part installed.  
Group 2 aeroplanes are those that do not have an affected part installed.

**Reason:**

An occurrence was reported of finding cracks within the ring gears of an SGRA. Investigation result identified that this was due to a change in the manufacturing process of the 300M steel raw material in conjunction with inadequate post-production non-destructive testing for potential cracks. A batch of SGRA was identified as having been subject to this manufacturing process.

This condition, if not detected and corrected, could, in combination with an independent failure on the second SGRA of the same slat surface, lead to an uncontrolled movement of the affected slat surface in flight, or detachment of the slat surface, possibly resulting in damage to the stabilizers, or reduced control of the aeroplane.

To address this potential unsafe condition, Airbus issued the SB to provide instructions to identify and replace the affected parts, referencing the Liebherr SB for in-shop correction. Consequently, EASA published AD 2019-0093 to require identification and replacement of each affected part with a serviceable part.

Since that AD was published, it was confirmed that the affected parts were still installed on the identified aeroplanes. However, it was also determined that the requirements of that AD may not ensure the permanent removal from service of these parts. Therefore, it cannot be excluded that an affected part, removed from an affected aeroplane, would later be installed on another aeroplane.

For the reason described above, this AD partially retains the requirements of EASA AD 2019-0093, which is superseded, and expands the Applicability to all aeroplanes for which the affected part is eligible for installation. This AD also prohibits (re)installation of an affected part on any aeroplane.

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

Required as indicated, unless accomplished previously:

**Replacement:**

- (1) For Group 1 aeroplane: Within 20 000 flight hours after 10 May 2019 [the effective date of EASA AD 2019-0093], replace each affected part with a serviceable part in accordance with the instructions of the SB.

**Part(s) Installation:**

- (2) Do not install on any aeroplane an affected part, as required by paragraph (2.1) or (2.2) of this AD, as applicable.

(2.1) For Group 1 aeroplanes: After removal of all affected parts from the aeroplane, as required by paragraph (1) of this AD.

(2.2) For Group 2 aeroplanes: From the effective date of this AD.

**Ref. Publications:**

Airbus SB A330-27-3233 original issue dated 07 March 2019.



Liebherr SB 926C-27-01 original issue dated 18 December 2018.

The use of later approved revisions of the above-mentioned 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 06 October 2020 as PAD 20-157 for consultation until 03 November 2020. 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 Programming and Continued Airworthiness Information Section, Certification Directorate. E-mail: [ADs@easa.europa.eu](mailto:ADs@easa.europa.eu).
4. Information about any failures, malfunctions, defects or other occurrences, which may be similar to the unsafe condition addressed by this AD, and which may occur, or have occurred on a product, part or appliance not affected by this AD, can be reported to the [EU aviation safety reporting system](#). This may include reporting on the same or similar components, other than those covered by the design to which this AD applies, if the same unsafe condition can exist or may develop on an aircraft with those components installed. Such components may be installed under an FAA Parts Manufacturer Approval (PMA), Supplemental Type Certificate (STC) or other modification.
5. For any question concerning the technical content of the requirements in this AD, please contact: AIRBUS – IIAL (Airworthiness Office), E-mail: [airworthiness.A330-A340@airbus.com](mailto:airworthiness.A330-A340@airbus.com).

