



適航指令發布單
Airworthiness Directive Issuance Form

民航局 AD 編號 AD number	CAA-2022-03-009	發布日期 Date issued	2022/3/11												
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, and A330-941 aeroplanes, all manufacturer serial numbers (MSN) up to MSN 1919 inclusive, except MSN 1915; and Airbus A340-211, A340-212, A340-213, A340-311, A340-312 and A340-313 aeroplanes, all MSN.														
主旨摘要 Subject	Flight Controls - Trimmable Horizontal Stabilizer Actuator / Electric Load Sensing Device - Modification														
民航局 CAA <input type="checkbox"/> 本國產品 Native product <input type="checkbox"/> 其他個案 Other	<div>設計國民航主管機構 Original Authority</div> <table><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 colspan="2"><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	2022-0039													
	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 27. Ref. Publications: Airbus SB A330-27-3234 original issue dated 05 March 2019 and Revision 01 dated 12 October 2020. and Airbus SB A330-27-3237 original issue dated 12 October 2020 (or any revision that contains the content of the RDAF). and Airbus SB A340-27-4213 original issue dated 12 October 2020 (or any revision that contains the content of the RDAF). and Airbus SB A340-27-4214 original issue dated 12 October 2020. and Airbus RDAF 80874366/013/2021#A dated 12 February 2021. and Airbus RDAF 80874366/022/2021#A dated 19 April 2021.														
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)2349-6330 / 6332, 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)2349-6330 / 6332, Fax : (02)2545-8464, e-mail : adcaa@mail.caa.gov.tw

CAA Form ACS-P08-02

第一頁/共一頁



Airworthiness Directive

AD No.: 2022-0039

Issued: 08 March 2022

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 and A340 aeroplanes

Effective Date: 22 March 2022

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

Foreign AD: Not applicable

Supersedure: None

ATA 27 – Flight Controls – Trimmable Horizontal Stabilizer Actuator / Electric Load Sensing Device – Modification

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, and A330-941 aeroplanes, all manufacturer serial numbers (MSN) up to MSN 1919 inclusive, except MSN 1915; and

Airbus A340-211, A340-212, A340-213, A340-311, A340-312 and A340-313 aeroplanes, all MSN.

Definitions:

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

The SB1: Airbus Service Bulletin (SB) A330-27-3237 and SB A340-27-4213, as applicable.

The SB2: Airbus SB A330-27-3234 and SB A340-27-4214, as applicable.

The RDAF: Airbus Repair and Design Approval Form (RDAF) 80874366/013/2021#A for A330 aeroplanes or RDAF 80874366/022/2021#A for A340 aeroplanes, as applicable.



Groups: Group 1 aeroplanes are all MSN up to MSN 1789 inclusive.
Group 2 aeroplanes are MSN 1790 to 1919 inclusive.

Reason:

The upper and lower attachments of the Trimmable Horizontal Stabilizer Actuator (THSA) have a primary load path (PLP) and a secondary load path (SLP), the latter of which is only engaged in case of PLP failure. When the SLP is engaged, the THSA should stall, and an indication should be provided to the flight crew, activated by position monitoring. It has been demonstrated by recent tests that, when the upper SLP is engaged, the unit might not stall, with consequently no indication of SLP engagement.

This condition, if not corrected, could lead to damage on the upper THSA SLP attachment, with consequent mechanical disconnection of the THSA, possibly resulting in loss of control of the aeroplane.

To initially address this potential unsafe condition, Airbus developed a method to inspect the upper THSA attachments parts and the PLP and SLP fuselage attachment points, and EASA issued AD 2017-0044 to require those repetitive inspections and, depending on findings, accomplishment of applicable corrective action(s). That AD was later cancelled, as the requirements were transferred into the applicable Airworthiness Limitation Sections (ALS) for the affected type designs, for which EASA published AD 2019-0047 and AD 2019-0048.

Since those ADs were issued, Airbus designed an Electric Load Sensing Device (ELSD), to detect the engagement on the SLP even in absence of a THSA stall. Consequently, Airbus published the SB1, providing instructions for installation of the ELSD wiring provisions, and the SB2, providing instructions for ELSD installation and activation.

For the reasons described above, this AD requires to modify the THSA installation, implementing ELSD wiring provision and installing and activating the ELSD.

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

Required as indicated, unless accomplished previously:

Modification(s):

Within 48 months after the effective date of this AD, accomplish the following:

- (1) For Group 1 aeroplanes: Install the wiring for the ELSD in accordance with the instructions of the SB1 and the RDAF (for aeroplanes to which the RDAF applies).
- (2) For Group 1 and Group 2 aeroplanes: Install and activate the ELSD in accordance with the instructions of the SB2.

Ref. Publications:

Airbus SB A330-27-3234 original issue dated 05 March 2019 and Revision 01 dated 12 October 2020.



Airbus SB A330-27-3237 original issue dated 12 October 2020 (or any revision that contains the content of the RDAF).

Airbus SB A340-27-4213 original issue dated 12 October 2020 (or any revision that contains the content of the RDAF).

Airbus SB A340-27-4214 original issue dated 12 October 2020.

Airbus RDAF 80874366/013/2021#A dated 12 February 2021.

Airbus RDAF 80874366/022/2021#A dated 19 April 2021.

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 04 May 2021 as PAD 21-066 for consultation until 01 June 2021. The Comment Response Document can be found in the [EASA Safety Publications Tool](#), in the compressed (zipped) file attached to the record for this PAD.
3. Enquiries regarding this AD should be referred to the EASA Safety Information Section, Certification Directorate. E-mail: 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 – Airworthiness Office – IIAL; E-mail: airworthiness.A330-A340@airbus.com.

