



# 適航指令發布單

## Airworthiness Directive Issuance Form

|   |   |                     |            |
|---|---|---------------------|------------|
| 民航局AD編號<br>AD number  | CAA-2023-11-008   | 發布日期<br>Date issued | 2023/11/23 |
| 適用之航空產品<br>Applied to (models,<br>serial numbers or part<br>numbers, as applicable) | 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, A330-841 and A330-941 aeroplanes, all manufacturer serial numbers; and A340-541, A340-542, A340-642 and A340-643 aeroplanes, all manufacturer serial numbers.   |                     |            |
| 主旨摘要<br>Subject   | Master Minimum Equipment List - Amendment   |                     |            |
| 民航局<br>CAA  | 設計國民航主管機構<br>Original Authority   |                     |            |
| <input type="radio"/> 本國產品<br>Native product  | <input type="radio"/> FAA <input type="radio"/> Germany LBA<br><input checked="" type="radio"/> EASA <input type="radio"/> CAA-NL<br><input type="radio"/> Brazil <input type="radio"/> UK CAA<br><input type="radio"/> Transport Canada Civil Aviation <input type="radio"/> Japan CAB<br><input type="radio"/> DGAC <input type="radio"/> CAA of Israel<br><input type="radio"/> Other_____ |                     |            |
| <input type="radio"/> 其他個案<br>Other   |   |                     |            |
|   | 設計國AD編號<br>Original AD number   | 2023-0206           |            |
|   | 1. 直接採用原AD之內容? (Is the original AD directly adopted?)<br><input checked="" type="radio"/> 是(Yes) <input type="radio"/> 否(No)_<br>a. 生效日期另訂為(Re-specify the effective date as):<br>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?<br>(Do users need to report the status of compliance to the CAA?)<br><input type="radio"/> 需要(Yes) <input checked="" type="radio"/> 不需要(No)  |                     |            |
| 備註<br>Note  | Ref. Publications: Airbus A330/A340 MMEL MER dated 23 August 2023.  |                     |            |

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,  
[adcaa@mail.caa.gov.tw](mailto: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, [adcaa@mail.caa.gov.tw](mailto:adcaa@mail.caa.gov.tw)



## Airworthiness Directive

**AD No.:** 2023-0206

**Issued:** 21 November 2023

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, or Annex Vb Part ML.A.301, as applicable, 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 Annex Vb Part ML.A.303, as applicable] or agreed with the Authority of the State of Registry [Regulation (EU) 2018/1139, Article 71 exemption].

### Design Approval Holder's Name:

AIRBUS S.A.S.

### Type/Model designation(s):

A330 and A340 aeroplanes

**Effective Date:** 05 December 2023

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

**Foreign AD:** Not applicable

**Supersedure:** None

## ATA – Master Minimum Equipment List – Amendment

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### Manufacturer(s):

Airbus, formerly Airbus Industrie

### Applicability:

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, A330-841 and A330-941 aeroplanes, all manufacturer serial numbers; and

A340-541, A340-542, A340-642 and A340-643 aeroplanes, all manufacturer serial numbers.

### Definitions:

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

**The MMEL update:** Airbus A330/A340 Master Minimum Equipment List (MMEL) items listed below, as provided in Airbus A330/A340 MMEL Major Event Revision (MER) dated 23 August 2023:

- 28-07-02-05 - Inner Tank Fuel Quantity Indication on the FUEL SD page
- 28-07-02-06 - Outer Tank Fuel Quantity Indication on the FUEL SD page
- 28-07-02-07 - Trim Tank Fuel Quantity Indication on the FUEL SD page
- 28-07-02-08 - Center Tank Fuel Quantity Indication on the FUEL SD page
- 28-07-02-10 - RCT Fuel Quantity Indication on the FUEL SD page



**The MOD:** Airbus modification 57729, 200624, 200628, 203441 or 203442 embodied in production, or Airbus Service Bulletin A330-34-3262, A330-34-3308, A330-34-3345, A330-34-3378 or A330-34-3409 embodied in service (implementing Required Navigation Performance - Authorization Required (RNP-AR) capability).

**Groups:** Group 1 aeroplanes are those that have the MOD installed.  
Group 2 aeroplanes are those which are not Group 1.

**Reason:**

An occurrence was reported of temporary loss of Flight Director (FD) and Auto Throttle (A/THR) on an aeroplane dispatched under the provisions of MMEL item 28-07-02-05. Subsequent investigation determined that this behaviour is systematic, when an aeroplane is dispatched under certain MMEL ATA 28 items, as the Fuel Quantity Indication (FQI) unavailability invalidates the Gross Weight and the CG computation at FCMC (Fuel Control and Monitoring Computer) level.

This condition, if not corrected, could affect the aeroplane capability to follow the desired ground track and vertical path during certain take-off and approach phases.

To address this potential unsafe condition, Airbus issued the MMEL update, as defined in this AD, prohibiting RNP-AR operation for aeroplanes dispatched under certain MMEL items.

For the reason described above, this AD requires to implement the MMEL update.

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

Required as indicated, unless accomplished previously:

**MMEL Amendment:**

- (1) For Group 1 aeroplanes: Within 30 days after the effective date of this AD, implement the instructions of the MMEL update, on basis of which the applicable MEL of each affected aeroplane must be amended and, thereafter, operate the affected aeroplane(s) accordingly.
- (2) For Group 2 aeroplanes: From the effective date of this AD, it is allowed to modify a Group 2 aeroplane into a Group 1 aeroplane (see Note 1 of this AD) provided that, before next flight after that modification, the instructions of the MMEL update are implemented for that aeroplane.

Note 1: A Group 2 aeroplane can be modified into a Group 1 aeroplane by embodying the MOD on that aeroplane, as applicable, depending on aeroplane configuration.

**Ref. Publications:**

Airbus A330/A340 MMEL MER dated 23 August 2023.

The use of later approved revisions of the above-mentioned document 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 20 October 2023 as PAD 23-119 for consultation until 17 November 2023. No comments were received during the consultation period.
3. Enquiries regarding this AD should be referred to the EASA Safety 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).

