



## Airworthiness Directive

**AD No.:** 2017-0246

**Issued:** 11 December 2017

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 aeroplanes

**Effective Date:** 25 December 2017

**TCDS Numbers:** EASA.A.004

**Foreign AD:** Not applicable

**Supersedure:** None

### ATA 27 – Flight Controls – Flight Control Primary Computer – Modification / Replacement

#### 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 and A330-343 aeroplanes, all manufacturer serial numbers (MSN), if equipped with Flight Control Primary Computer (FCPC) having software standard P13/M22 (hardware 2K2), P14/M23 (hardware 2K1) or M23 (hardware 2K0), or earlier standard.

Note 1: These software standards correspond, respectively, to Part Number (P/N) LA2K2B100DG0000, P/N LA2K1A100DF0000 and P/N LA2K01500AF0000. All affected aeroplanes should be equipped with this software, as required by EASA [AD 2015-0124R3](#).

#### Reason:

In 2015, occurrences were reported of multiple Angle of Attack (AOA) blockages. Investigation results indicated the need for AOA monitoring in order to better detect cases of AOA blockage.

This condition, if not corrected, could, under specific circumstances, lead to undue activation of the Alpha protection, possibly resulting in reduced control of the aeroplane.



To address this potential unsafe condition, Airbus developed new FCPC software standards for enhanced AOA monitoring and, consequently, EASA issued AD 2015-0124 (later revised) to require these software standard upgrades.

Since EASA AD 2015-0124R3 was issued, it was identified that, for some cases, AOA blockages were not detected by those FCPC software standards. Consequently, new FCPC software standards, as specified in Table 1 of this AD, have been developed (Airbus modification (mod) 206412, mod 206413 and mod 206414) to further improve the detection of AOA blockage. Airbus issued Service Bulletin (SB) A330-27-3222 and SB A330-27-3223 to implement these mods on in-service aeroplanes.

For the reasons described above, this AD requires a software standard upgrade of the three FCPCs, either by modification or replacement.

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

Required as indicated, unless accomplished previously:

Note 2: Airbus SB A330-27-3222 and SB A330-27-3223 are collectively referred to as ‘the applicable SB’ in this AD.

Note 3: For the purpose of this AD, Group 1 aeroplanes are those in pre-mod 206412, pre-mod 206413 or pre-mod 206414 configuration, as applicable. Group 2 aeroplanes are those in post-mod (206412, 206413 or 206414) configuration.

#### Modification / Replacement:

- (1) For Group 1 aeroplanes: Within 12 months after the effective date of this AD, modify or replace the three FCPCs, by installing software standards as specified in Table 1 of this AD, in accordance with the instructions of the applicable Airbus SB.

Table 1 – Software Standard Updates

| Software Standard to be installed | FCPC Hardware Standard(s) | Applicable SB   |
|-----------------------------------|---------------------------|-----------------|
| P15/M24                           | 2K2                       | SB A330-27-3222 |
| P16/M25                           | 2K1                       | SB A330-27-3223 |
| M25                               | 2K0                       |                 |

#### Aircraft Flight Manual (AFM) Change:

- (2) After modification of an aeroplane as required by paragraph (1) of this AD and after modification of an aeroplane as required by paragraph (1) or (2), as applicable, of EASA AD 2015-0134, the operational procedure ‘AFM Temporary Revision 528 Issue 1.0’, as required by EASA AD 2014-0267-E, is no longer required and can be removed from the AFM of that aeroplane.



**Credit:**

- (3) An aeroplane modified as required by paragraph (1) of this AD remains compliant with the modification requirements of paragraph (1) of EASA AD 2015-0124 (any revision) for that aeroplane.

**Part Installation Prohibition:**

- (4) Do not install on an aeroplane any software or hardware of a version earlier than the one listed in Table 1 of this AD, as required by paragraph (4.1) or (4.2) of this AD, as applicable.

(4.1) For Group 1 aeroplanes: After modification of the aeroplane as required by paragraph (1) of this AD.

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

**Ref. Publications:**

Airbus SB A330-27-3222 original issue dated 16 February 2017.

Airbus SB A330-27-3223 original issue dated 06 June 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 24 October 2017 as PAD 17-153 for consultation until 21 November 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](mailto:ADs@easa.europa.eu).
4. For any question concerning the technical content of the requirements in this AD, please contact: AIRBUS – EIAL (Airworthiness Office), E-mail: [airworthiness.A330-A340@airbus.com](mailto:airworthiness.A330-A340@airbus.com).

