



# Airworthiness Directive

**AD No.:** 2024-0203

**Issued:** 22 October 2024

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, or Annex Vb Part M.L.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 M.L.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):

A318, A319, A320 and A321 aeroplanes

**Effective Date:** 05 November 2024

**TCDS Number(s):** EASA.A.064

**Foreign AD:** Not applicable

**Supersedure:** This AD supersedes EASA AD 2020-0073 dated 26 March 2020.

## ATA 27 – Flight Controls – Trimmable Horizontal Stabilizer Actuator – Replacement

### Manufacturer(s):

Airbus, formerly Airbus Industrie

### Applicability:

Airbus A318-111, A318-112, A318-121, A318-122, A319-111, A319-112, A319-113, A319-114, A319-115, A319-131, A319-132, A319-133, A319-151N, A319-153N, A319-171N, A320-211, A320-212, A320-214, A320-215, A320-216, A320-231, A320-232, A320-233, A320-251N, A320-252N, A320-253N, A320-271N, A320-272N, A320-273N, A321-111, A321-112, A321-131, A321-211, A321-212, A321-213, A321-231, A321-232, A321-251N, A321-251NX, A321-252N, A321-252NX, A321-253N, A321-253NX, A321-253NY, A321-271N, A321-271NX, A321-272N and A321-272NX aeroplanes, all manufacturer serial numbers.

### Definitions:

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

**The AOT:** Airbus Alert Operators Transmission (AOT) A27N013-20.

**Affected part:** Trimmable horizontal stabilizer actuators (THSA), having a serial number (s/n) as listed in Appendix 1 of this AD, except those that have been reworked and re-certified in accordance with the instructions of the AOT.



**Serviceable part:** Any THSA, eligible for installation in accordance with Airbus instructions, which 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.

An A321-253NY aeroplane is a Group 2 aeroplane, provided that no affected part has been installed on that aeroplane since the aeroplane date of manufacture.

**Aeroplane date of manufacture:** The date of transfer of title (ownership) of the aeroplane upon delivery by Airbus to the first operator, which is referenced in Airbus documentation.

**Reason:**

Deviations from the Component Maintenance Manual acceptance test procedure have been reported by a Maintenance Repair Organization for certain THSA. This affects in particular the verification validation process of proper installation of THSA ball screw in shop.

This condition, if not corrected, could compromise the failsafe THSA function, possibly resulting in loss of control of the aeroplane in case of single failure condition.

To address this potential unsafe condition, Airbus issued the AOT, providing the list of affected THSA and replacement instructions. Consequently, EASA issued AD 2020-0073 to require replacement of affected THSA with serviceable parts, and to prohibit (re)installation, unless those affected THSA were reworked and re-certified in accordance with the instructions of the AOT.

Since that AD was issued, a new aeroplane model (A321-253NY) has been certified, on which affected parts could be installed in service. On the issue date of this AD, no A321-253NY aeroplanes have been delivered yet to operators.

For the reason described above, this AD supersedes EASA AD 2020-0073, and extends the Applicability to the A321-253NY aeroplanes to prohibit installation of affected parts on those aeroplanes in service.

For aeroplanes previously affected by EASA AD 2020-0073, this AD retains the requirements of that AD, with no additional actions.

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

Required as indicated by this AD, unless the action(s) required by this AD have been already accomplished:

**Replacement:**

- (1) For Group 1 aeroplanes: Within 15 days after 02 April 2020 [the effective date of EASA AD 2020-0073], replace the affected part with a serviceable part in accordance with the instructions of the AOT.



**Parts Installation:**

- (2) For Group 1 and Group 2 aeroplanes: From the effective date of this AD, do not install an affected part on any aeroplane.

**Ref. Publications:**

Airbus AOT A27N013-20 original issue dated 25 March 2020.

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. Based on the required actions and the compliance time, EASA have decided to issue a Final AD with Request for Comments, postponing the public consultation process until after publication. All interested persons may send their comments, referencing the AD Number, to the E-mail address specified in below Remark 3, prior to 19 November 2024. Only if any comment is received during the consultation period, a Comment Response Document will be published in the [EASA Safety Publications Tool](#), in a 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. 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 – 1IASA; E-mail: [account.airworth-eas@airbus.com](mailto:account.airworth-eas@airbus.com).



## Appendix 1 – List of Affected Parts (see Note 1 of this AD)

| P/N       | s/n  | P/N       | s/n  | P/N       | s/n   |
|-----------|------|-----------|------|-----------|-------|
| 47145-131 | 34   | 47145-137 | 1154 | 47145-137 | 1828  |
| 47145-133 | 267  | 47145-131 | 1192 | 47145-133 | 1889  |
| 47145-131 | 331  | 47145-133 | 1231 | 47145-147 | 1931  |
| 47145-133 | 343  | 47145-137 | 1292 | 47145-147 | 2072  |
| 47145-136 | 376  | 47145-133 | 1337 | 47145-133 | 2121  |
| 47145-133 | 450  | 47145-133 | 1356 | 47145-133 | 2174  |
| 47145-137 | 460  | 47145-133 | 1357 | 47145-133 | 2255  |
| 47145-137 | 473  | 47145-137 | 1413 | 47145-137 | 2279  |
| 47145-130 | 485  | 47145-137 | 1422 | 47145-133 | 2301  |
| 47145-137 | 493  | 47145-137 | 1440 | 47145-133 | 2302  |
| 47145-121 | 499  | 47145-137 | 1483 | 47145-147 | 2339  |
| 47145-131 | 506  | 47145-137 | 1495 | 47145-133 | 2343  |
| 47145-137 | 511  | 47145-137 | 1506 | 47145-137 | 2390  |
| 47145-137 | 524  | 47145-133 | 1509 | 47145-133 | 2395  |
| 47145-133 | 533  | 47145-133 | 1517 | 47145-133 | 2426  |
| 47145-133 | 544  | 47145-137 | 1525 | 47145-147 | 2454  |
| 47145-132 | 554  | 47145-133 | 1534 | 47145-147 | 2482  |
| 47145-133 | 556  | 47145-137 | 1541 | 47145-137 | 2508  |
| 47145-137 | 560  | 47145-137 | 1569 | 47145-137 | 2510  |
| 47145-133 | 639  | 47145-137 | 1574 | 47145-147 | 2555  |
| 47145-133 | 674  | 47145-137 | 1586 | 47145-147 | 2568  |
| 47145-131 | 714  | 47145-133 | 1591 | 47145-137 | 2579  |
| 47145-137 | 725  | 47145-137 | 1598 | 47145-137 | 2581  |
| 47145-131 | 726  | 47145-147 | 1599 | 47145-137 | 2754  |
| 47145-131 | 778  | 47145-133 | 1613 | 47145-137 | 2773  |
| 47145-137 | 797  | 47145-141 | 1622 | 47145-147 | 2815  |
| 47145-137 | 808  | 47145-137 | 1632 | 47145-133 | 2966  |
| 47145-131 | 823  | 47145-137 | 1639 | 47145-147 | 3085  |
| 47145-133 | 859  | 47145-137 | 1647 | 47145-147 | 3249  |
| 47145-137 | 867  | 47145-137 | 1653 | 47145-147 | 3581  |
| 47145-137 | 875  | 47145-137 | 1655 | 47145-147 | 3799  |
| 47145-137 | 913  | 47145-133 | 1658 | 47145-147 | 3931  |
| 47145-137 | 1003 | 47145-137 | 1678 | 47145-167 | 5506  |
| 47145-137 | 1011 | 47145-131 | 1747 | 47145-168 | 6141  |
| 47145-133 | 1040 | 47145-137 | 1771 | 47145-137 | 10030 |
| 47145-137 | 1137 | 47145-137 | 1781 |           |       |

Note 1: Part Number (P/N) is provided for information only.

