



## Airworthiness Directive Cancellation Notice

**AD No.:** 2021-0180-CN

**Issued:** 05 September 2023

Note: This Airworthiness Directive (AD) Cancellation Notice (CN) 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.

**Design Approval Holder's Name:**

AIRBUS S.A.S.

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

Airbus aeroplanes (see Applicability)

**Effective Date:** 05 September 2023

**TCDS Number(s):** EASA.A.004, EASA.A.014, EASA.A.015, EASA.A.064 and EASA.A.172

**Foreign AD:** Not applicable

**Cancellation:** This Notice cancels EASA AD 2021-0180R2 dated 29 August 2022. The original issue of this AD superseded EASA AD 2019-0085 dated 18 April 2019.

### ATA 35 – CANCELLED: Oxygen – Crew and Passenger Oxygen Cylinders – Inspection / Replacement

**Manufacturer(s):**

Airbus, formerly Airbus Industrie

**Applicability:**

Airbus A300, A300-600 and A310 aeroplanes, all certified models, all manufacturer serial numbers (MSN);

Airbus A300F4-608ST aeroplanes, all MSN;

Airbus A318, A319, A320 and A321 aeroplanes, all certified models, all MSN;

Airbus A330 aeroplanes, all certified models except A330-223F and A330-243F, all MSN, and

Airbus A340 aeroplanes, all certified models, all MSN.

**Definitions:**

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

**All certified models:** This includes all models (of a type design) that were certified before 29 July 2021 [the publication date of the original issue of this AD].

**Affected part:** Oxygen cylinders, having Part Number (P/N) 89794077, P/N 89794015 or P/N 891511-14, identified as Batch 1 and Batch 2 in this AD, except those that have passed an inspection (marked with blue dot) in accordance with the instructions of the AOT or the SB.



**Batch 1:** Affected parts having a serial number (s/n) as listed in the Appendix 1 of the SB at original issue.

**Batch 2:** Affected parts having an s/n as listed in the Appendix 2 of the SB at Revision 03.

**Serviceable part:** Oxygen cylinders which are not an affected part.

**The SB:** SAFRAN (AVOX Systems Inc.) Service Bulletin (SB) 10015804-35-01.

**The AOT:** Airbus Alert Operators Transmission (AOT) A35W014-19 (A300/A310), AOT A35L013-19 (A330/A340) and AOT A35N012-19 (A318 through A321), as applicable, which refer for accomplishment instructions to the SB.

**Reason:**

Several occurrences were reported of a cylinder and hand valve with oxygen leakage from the valve assembly vent hole. The technical investigation identified that an internal part (guide) was not assembled onto the stem. It was determined that a batch of oxygen cylinders produced in 2018 is potentially affected by this manufacturing discrepancy.

This condition, if not detected and corrected, could lead to a reduction of the available oxygen capacity of the aeroplane, possibly resulting in injury to aeroplane occupants following a depressurization event. In addition, there is a possibility of ignition/fire in flight in case of an open hand valve assembly failure, depending on installation zone, or ignition/fire during system ground testing following (re)installation on an aeroplane, possibly resulting in injury to aeroplane occupants or maintenance staff, respectively.

To address this potential unsafe condition, Airbus issued the AOT (original issue) to provide inspection instructions and EASA issued AD 2019-0085 to require a one-time inspection of each affected part (Batch 1) and, depending on findings, replacement with a serviceable part. That AD also prohibited (re)installation of an affected part on an aeroplane.

After that AD was issued, additional parts (Batch 2) have been identified by SAFRAN (AVOX Systems, Inc.) as affected by the same potential unsafe condition. The AOT and the SB have been revised accordingly. Consequently, EASA issued AD 2021-0180 (later revised), retaining the requirements of EASA AD 2019-0085, which was superseded, and expanding the list of affected parts.

After EASA AD 2021-0180R1 was issued, FAA issued "equipment" AD 2022-04-09, addressing the same unsafe condition as the EASA AD and requiring (in principle) the same inspection and equivalent corrective actions. This FAA AD was adopted by EASA and subsequently, EASA intended to cancel AD 2021-0180R1 and issued a Proposal to cancellation, ref. PAD 22-032-CN.

Upon closer review of FAA AD 2022-04-09 and prompted by comments, it turned out, that the requirements of EASA AD 2021-0180R1 had not been fully taken over in this FAA AD, as Revision 03 of the affected SAFRAN (AVOX) SBs had introduced additional parts that were not subject to the requirements of FAA AD 2022-04-09.



Consequently, EASA postponed the cancellation and issued AD 2021-0180R2 instead to clarify the situation, rather than to cancel AD 2021-0180R1, pending the expected issuance of a new AD by the FAA that would require the use of Revision 03 of the affected SAFRAN (AVOX) SBs.

Since that AD was issued, FAA issued [AD 2023-13-11](#) which has been adopted by EASA and which takes over all the requirements of EASA AD 2021-0180R2. Therefore, EASA AD 2021-0180R2 is no longer necessary.

For the reasons described above, this Notice cancels EASA AD 2021-0180R2.

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

None.

#### Ref. Publications:

Airbus AOT A35W014-19 original issue dated 06 March 2019, or Revision 01 dated 22 June 2021.

Airbus AOT A35L013-19 original issue dated 06 March 2019, or Revision 01 dated 22 June 2021.

Airbus AOT A35N012-19 original issue dated 06 March 2019, or Revision 01 dated 22 June 2021.

The use of the instructions of the above-mentioned documents, or later approved revisions thereof, is acceptable for compliance with the requirements of FAA AD 2023-13-11, provided the compliance times of that AD are not exceeded.

SAFRAN / AVOX Systems, Inc. SB 10015804-35-01 original issue dated 06 March 2019, or Revision 01 dated 06 July 2019, or Revision 02 dated 16 October 2019, or Revision 03 dated 07 June 2021.

#### Remarks:

1. A proposal to cancel AD 2021-0180R2 was posted on 17 August 2023 as PAD 23-094-CN for consultation until 31 August 2023. No comments were received during the consultation period. A previous proposal to cancel EASA AD 2021-0180R1 was posted on 25 March 2021 as PAD 22-032-CN for consultation until 08 April 2022. 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-CN. The original issue of AD 2021-0180 was posted on 09 July 2021 as PAD 21-099 for consultation until 23 July 2021. No comments were received during the consultation period.
2. Enquiries regarding this AD-CN should be referred to the EASA Safety Information Section, Certification Directorate; E-mail: [ADs@easa.europa.eu](mailto:ADs@easa.europa.eu).
3. For any question concerning the technical content of this AD-CN, please contact AIRBUS S.A.S., as applicable, as specified below:  
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