



Airworthiness Directive

AD No.: 2019-0215

Issued: 04 September 2019

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 Change Approval Holder's Name:

ELBE FLUGZEUGWERKE GmbH

Modification description:

Passenger to Freighter conversion

Effective Date: 18 September 2019

STC Number: EASA Supplemental Type Certificate (STC) 10063798 and STC 10063795

Foreign AD: Not applicable

Supersedure: None

ATA 35 – Oxygen – Courier Area Oxygen Distribution System Flexible Hoses – Inspection / Replacement

Manufacturer(s):

Airbus

Applicability:

Airbus A330-201, A330-202, A330-203, A330-223, A330-243, A330-301, A330-302, A330-303, A330-321, A330-322, A330-323, A330-341, A330-342 and A330-343 aeroplanes, all manufacturer serial numbers, if converted to freighter aeroplanes in accordance with EASA STC 10063798 (Passenger to freighter conversion) and STC 10063795 (Lavatory installation).

Definitions:

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

Affected part: Flexible hoses, having a Part Number (P/N) as listed in Table 1 of this AD, intended for installation on the courier area oxygen system (CAOS).

Serviceable part: An affected part that is new (never previously installed), or that, before next flight after installation into the CAOS, has passed an inspection and functional test (no leakage or damage found) in accordance with the instructions of the applicable SB.



The applicable SB: Elbe Flugzeugwerke GmbH (EFW) Service Bulletin (SB) EFW-SB-35-0001 or SB EFW-SB-35-0002, as applicable.

Reason:

Several occurrences were reported of finding cracked flexible hoses P/N 32209-series of the CAOS on A330 freighter aeroplanes. These flexible hoses are steel braided hoses with polyurethane (PUR) inner tubes and steel inner springs. On A330 freighter aeroplanes, these hoses are located in the courier area and are not pressurized during normal operation. It was identified that the same issue is present on A330 aeroplanes modified with EASA STC 10063798 and STC 10063795.

This condition, if not detected and corrected, could lead to oxygen leakage in the flexible hose of the CAOS, which, in combination with in-flight depressurization or smoke evacuation procedure, could possibly result in injury occupants of the courier area.

To address this potential unsafe condition, EFW issued the applicable SB to provide inspection instructions.

For the reasons described above, this AD requires repetitive detailed inspections (DET), which includes functional testing, of the CAOS and, depending on findings, replacement of affected part(s).

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

Required as indicated, unless accomplished previously:

Table 1 – Affected parts P/N

| | |
|----------------|-------------|
| 32209H0136K000 | 32209E0230C |
| 32209E0314F090 | 32209E0266C |
| 32209E0190C | |

Inspection(s):

- (1) Within 1 600 flight hours (FH) after the effective date of this AD and, thereafter, at intervals not to exceed 1 600 FH, accomplish a DET (including functional testing) of the CAOS in accordance with the instructions of the applicable SB.

Corrective Action(s):

- (2) If, during any DET as required by paragraph (1) of this AD, any leakage or damage of any affected part is found, before next flight, replace that affected part with a serviceable part in accordance with the instructions of the applicable SB.

Terminating Action:

- (3) None.

Parts Installation:

- (4) From the effective date of this AD, installation of an affected part on an aeroplane is allowed, provided that the part is a serviceable part, as defined in this AD.



Ref. Publications:

EFW SB-35-0001 original issue dated 08 March 2019.

EFW SB-35-0002 original issue dated 02 September 2019.

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 26 July 2019 as PAD 19-144 for consultation until 23 August 2019. No comments were received during the consultation period.
3. Enquiries regarding this AD should be referred to the EASA Programming and Continued Airworthiness 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](#).
5. For any question concerning the technical content of the requirements in this AD, please contact: Elbe Flugzeugwerke GmbH, E-mail: airworthiness@efw.aero.

