



Notification of a Proposal to issue an Airworthiness Directive

PAD No.: 21-015

Issued: 03 February 2021

Note: This Proposed Airworthiness Directive (PAD) 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.

In accordance with the EASA Continuing Airworthiness Procedures, the Executive Director is proposing the issuance of an EASA Airworthiness Directive (AD), applicable to the aeronautical product(s) identified below. All interested persons may send their comments, referencing the PAD Number above, to the e-mail address specified in the 'Remarks' section, prior to the consultation date indicated.

Design Approval Holder's Name:

AIRBUS

Type/Model designation(s):

A380 aeroplanes

Effective Date: [TBD - standard: 14 days after AD issue date]

TCDS Number(s): EASA.A.110

Foreign AD: Not applicable

Supersedure: None

ATA 35 – Oxygen – Steel Braided Polyurethane Flexible Hoses – Replacement

Manufacturer(s):

Airbus

Applicability:

Airbus A380-841, A380-842 and A380-861 aeroplanes, all manufacturer serial numbers.

Definitions:

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

Affected part: Oxygen steel braided polyurethane flexible hoses, having a Part Number (P/N) 32209 series, identified as 'Old Hose P/N', and installed at positions listed by Functional Item Number (FIN), in Appendix 1 of this AD.

Serviceable part: Oxygen flexible hoses, having a P/N 32309 series, identified as 'New Hose P/N' in Appendix 1 of this AD.

The SB: Airbus Service Bulletin (SB) A380-35-8051.

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 aeroplane on which Airbus modification 76894 has been embodied in production is a Group 2 aeroplane, provided it remains in that configuration, and it is determined that no affected part is installed on that aeroplane.

Reason:

Occurrences were reported of oxygen leakage on P/N 32209 series flexible hoses in permanently pressurized parts of the crew and passenger oxygen distribution systems. Investigation results revealed that only certain steel braided oxygen flexible hoses, made from a particular type of polyurethane, are affected. Material degradation of polyurethane liners caused by chemical corrosion of these hoses likely caused these oxygen leakage events.

This condition, if not detected and corrected, could lead to a reduced flow of oxygen supply to cockpit crew and passenger oxygen masks, which, in combination with in-flight depressurization or smoke, may lead to crew and/or passenger hypoxia and loss of useful consciousness, possibly resulting in personal injury and loss of control of the aeroplane.

To address this potential unsafe condition, Airbus issued the SB to provide modification instructions.

For the reasons described above, this AD requires the replacement of each affected part, as defined in this AD, with a serviceable part. This AD also prohibits (re)installation of an affected part.

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

Required as indicated, unless accomplished previously:

Replacement:

- (1) For Group 1 aeroplanes: Within 42 months after the effective date of this AD, replace each affected part with a serviceable part in accordance with the instructions of the SB.

Part Installation:

- (2) Do not install an affected part on any aeroplane, as required by paragraph (2.1) or (2.2) of this AD, as applicable.

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

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

Ref. Publications:

Airbus SB A380-35-8051 original issue dated 20 October 2020.

The use of later approved revisions of the above-mentioned document is acceptable for compliance with the requirements of this AD.



Remarks:

1. This Proposed AD will be closed for consultation on 03 March 2021.
2. Enquiries regarding this PAD should be referred to the EASA Safety Information Section, Certification Directorate. E-mail: ADs@easa.europa.eu.
3. Information about any failures, malfunctions, defects or other occurrences, which may be similar to the unsafe condition addressed by this PAD, and which may occur, or have occurred on a product, part or appliance not affected by this PAD, 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 PAD 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.
4. For any question concerning the technical content of the requirements in this PAD, please contact: AIRBUS SAS - EIANA (Airworthiness Office), Telephone: +33 562 110 253, Fax: +33 562 110 307, E-mail: account.airworth-A380@airbus.com.



Appendix 1 – Affected Parts / Serviceable Parts

System	Old Hose P/N	New Hose P/N	Position(s) - FIN
Passenger Oxygen System	32209H0103C	32309H0103C	7249WR1, 7249WR2, 7249WR3, 7249WR4, 7249WR5, 7249WR6, 7249WR7, 7249WR8, 7249WR9 and 7249WR10
	32209H0130D225	32309H0130D225	7249WR1
	32209H0130D180	32309H0130D180	7249WR2
	32209H0140F290	32309H0140F290	7249WR3
	32209H0130D180	32309H0130D180	7249WR4
	32209H0130D230	32309H0130D230	7249WR5
	32209H0085C	32309H0085C	7249WR6
	32209H0130D270	32309H0130D270	7249WR7
	32209H0130D180	32309H0130D180	7249WR8
	32209H0130D240	32309H0130D240	7249WR9
	32209H0104C	32309H0104C	7249WR10
	32209K0136C	32309K0136C	7349WR1 and 7349WR2
	32209K0126C	32309K0126C	7349WR2
Flight Crew Oxygen System	32209F0120F180	32309F0120F180	5100HT
	32209F0126F180	32309F0126F180	5101HT
	32209F0150F180	32309F0150F180	5101HT
	32209F0120F059	32309F0120F059	5102HT
	32209F0087C	32309F0087C	5103HT
	32209F0071F180	32309F0071F180	5104HT

