

Notification of a Proposal to issue an Airworthiness Directive

PAD No.: 22-052

Issued: 06 May 2022

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 S.A.S.

Type/Model designation(s):

A318, A319, A320 and A321 aeroplanes

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

TCDS Number(s): EASA.A.064

Foreign AD: Not applicable

Supersedure: None

ATA 36 – Pneumatic – Overheat Detection System Sensing Elements – Inspection – Master Minimum Equipment List – Temporary Operational Restrictions

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, A321-271N, A321-271NX, A321-272N and A321-272NX aeroplanes, all manufacturer serial numbers (MSN).

Definitions:

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

The SB: Airbus Service Bulletin (SB) A320-36-1085 or SB A320-36-1087, as applicable.

The VSB: Kidde Aerospace & Defense (vendor) SB (VSB) CFD-26-3.



Affected part: Overheat detection system (OHDS) sensing elements, also identified as ‘Continuous Fire Detector’, having a Part Number (P/N) and corresponding date code as listed in Section 1.A of the VSB, except those that passed an inspection (no discrepancies found; one face of the connector hex nut is marked) in accordance with the instructions of Section 3 of the VSB.

Serviceable part: Any OHDS sensing element, eligible for installation, that is not an affected part.

Affected position: Positions identified as Functional Item Number (FIN) 34HF, FIN 35HF, FIN 61HF and FIN 62HF.

Airbus 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.

Groups: Group 1 aeroplanes are those that have an affected part installed at an affected position. Group 2 aeroplanes are those that do not have an affected part installed at any affected position. An aeroplane having an MSN not listed in Section 1.A of the SB is Group 2, provided it is determined that no affected part has been installed on any affected position of that aeroplane since Airbus date of manufacture.

Reason:

The affected part manufacturer, Kidde Aerospace & Defense, reported that certain OHDS sensing elements, produced before 31 January 2021, may not properly detect thermal bleed leak events due to a quality escape during the manufacturing process.

This condition, if not detected and corrected, could lead to an air leak remaining undetected by the OHDS at an affected position and not being isolated during flight, possibly resulting in localized areas of the main landing gear bay and keel beam being exposed to high temperatures, with consequent reduced structural integrity of the aeroplane.

To address this potential unsafe condition, Airbus issued the SB, as defined in this AD, to provide inspection and replacement instructions of the affected parts at the affected positions.

For the reasons described above, this AD requires a one-time detailed inspection (DET) of each affected part installed at an affected position, as defined in this AD, and, depending on findings, replacement of the affected part with a serviceable part. Appendix 1 of this AD provides information how to identify affected parts (P/N and date code).

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

Required as indicated, unless accomplished previously:

Inspection:

- (1) For Group 1 aeroplanes: Within 72 months after the effective date of this AD, accomplish a DET of each affected part installed at an affected position, in accordance with the instructions of the SB.



Corrective Action:

- (2) If, during the inspection as required by paragraph (1) of this AD, any discrepancy as defined in the SB is detected on an affected part, before next flight, replace that affected part with a serviceable part in accordance with the instructions of the SB.

Parts Installation:

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

Ref. Publications:

Airbus SB A320-36-1085 original issue dated 28 March 2022.

Airbus SB A320-36-1087 original issue dated 28 March 2022.

Kidde Aerospace & Defense SB CFD-26-3 original issue dated 13 January 2022.

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

Remarks:

1. This Proposed AD will be closed for consultation on 03 June 2022.
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 S.A.S. – Airworthiness Office – IIASA;
E-mail: account.airworth-eas@airbus.com.



Appendix 1 – Affected Part – Locations of P/N and Date Code

Figure 4-50. Identification Markings on Coaxial SE Male (Pin) Connector

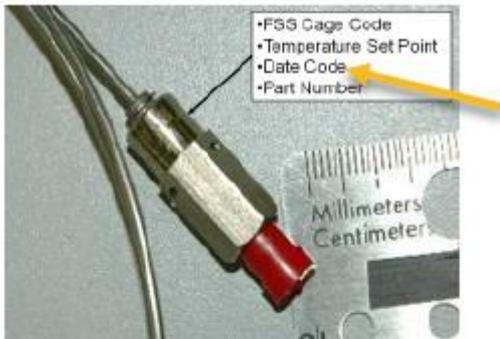


Figure 4-51. Identification Markings on Coaxial SE Female (Socket) Connector

