



## Airworthiness Directive

**AD No.:** 2016-0105R1

**Issued:** 21 September 2018

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 Approval Holder's Name:

AIRBUS

### Type/Model designation(s):

A321 aeroplanes

**Effective Date:** Revision 01: 28 September 2018  
Original issue: 13 June 2016

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

**Foreign AD:** Not applicable

**Revision:** This AD revises EASA AD 2016-0105 dated 06 June 2016.

## ATA 53 – Fuselage – Cabin Floor Beam Junction – Inspection

### Manufacturer(s):

Airbus, formerly Airbus Industrie

### Applicability:

Airbus A321-111, A321-112, A321-131, A321-211, A321-212, A321-213, A321-231 and A321-232 aeroplanes, all manufacturer serial numbers.

### Definitions:

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

**The applicable inspection SB:** Airbus Service Bulletin (SB) A320-53-1317, SB A320-53-1318, SB A320-53-1319 and SB A320-53-1320, as applicable to location.

**The applicable modification SB:** Airbus SB A320-53-1351, SB A320-53-1352, SB A320-53-1353, and SB A320-53-1354, as applicable to location.

### Reason:

Following the results of a new full scale fatigue test campaign on the A321 airframe in the context of the A321 extended service goal, it was identified that cracks could develop in the cabin floor



beam junctions at fuselage frame (FR) 35.1 and FR 35.2, on both left hand (LH) and right hand (RH) sides, also on aeroplanes operated in the context of design service goal.

This condition, if not detected and corrected, could reduce the structural integrity of the fuselage.

Prompted by these findings, Airbus published the applicable inspection SB, containing instructions for different locations. Consequently, EASA issued AD 2016-0105, requiring repetitive detailed inspections (DET) of the affected cabin floor beam junctions and, depending on findings, accomplishment of a repair.

Since that AD was issued, Airbus published the applicable modification SB, providing instructions for modifications which restore the fatigue potential at each location by performing cold working at the cabin floor beam and fitting junction holes. On the publication date of this AD, the applicable modification SB is available only for aeroplanes without Airbus modification (mod) 155607 embodied. Modification instructions for post-mod 155607 aeroplanes are expected to be published in the near future.

For the reasons described above, this AD is revised to introduce references to these optional modifications. This AD also includes some editorial changes, introducing the latest AD writing standards, without changing the requirements.

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

Required as indicated, unless accomplished previously:

#### **Inspection(s):**

- (1) Before exceeding 36 900 FC since aeroplane first flight, or within 2 100 FC after 13 June 2016 [the effective date of the original issue of this AD], whichever occurs later, and, thereafter, at intervals not to exceed 15 300 FC, accomplish a DET of the affected cabin floor beam junctions at the frames and locations as specified in Table 1 of this AD, and in accordance with the applicable inspection SB, as defined in Table 1 of this AD.

Table 1 – Locations and applicable inspection SB

<b>Location</b>	<b>SB</b>
FR 35.1 RH side	A320-53-1317
FR 35.1 LH side	A320-53-1318
FR 35.2 RH side	A320-53-1319
FR 35.2 LH side	A320-53-1320

#### **Corrective Action(s):**

- (2) If, during any DET as required by paragraph (1) of this AD, any crack is found, before next flight, contact Airbus to obtain approved repair instructions and accomplishes those instructions accordingly.



**Terminating Action:**

- (3) Repair of an aeroplane as required by paragraph (2) of this AD does not constitute terminating action for the repetitive DET as required by paragraph (1) of this AD for that aeroplane, unless specified otherwise in the instructions provided by Airbus.

**Modification:**

- (4) After modification of an aeroplane at a location as defined in Table 2 of this AD, in accordance with the instructions of the applicable modification SB, it is allowed to defer the next DET, as required by paragraph (1) of this AD for that location, until 36 900 FC after that modification.

Table 2 – Locations and applicable modification SB

Location	SB
FR 35.1 RH side	A320-53-1351
FR 35.1 LH side	A320-53-1353
FR 35.2 RH side	A320-53-1352
FR 35.2 LH side	A320-53-1354

**Ref. Publications:**

- Airbus SB A320-53-1317 original issue dated 15 December 2015, or Revision 01 dated 19 June 2018.
- Airbus SB A320-53-1318 original issue dated 09 October 2015, or Revision 01 dated 18 June 2018.
- Airbus SB A320-53-1319 original issue dated 09 October 2015, or Revision 01 dated 18 June 2018.
- Airbus SB A320-53-1320 original issue dated 09 October 2015, or Revision 01 dated 18 June 2018.
- Airbus SB A320-53-1351 original issue dated 20 December 2017.
- Airbus SB A320-53-1352 original issue dated 20 December 2017.
- Airbus SB A320-53-1353 original issue dated 20 December 2017.
- Airbus SB A320-53-1354 original issue dated 20 December 2017.

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. The original issue of this AD was posted on 05 April 2016 as PAD 16-048 for consultation until 19 April 2016. 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.



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](#).
5. For any question concerning the technical content of the requirements in this AD, please contact: AIRBUS – Airworthiness Office – EIAS; Fax +33 5 61 93 44 51; E-mail: [account.airworth-eas@airbus.com](mailto:account.airworth-eas@airbus.com) .

