



## Airworthiness Directive

**AD No.:** 2019-0304R1

**Issued:** 19 December 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 Approval Holder's Name:

AIRBUS

### Type/Model designation(s):

A320 and A321 aeroplanes

**Effective Date:** 31 December 2019 (same as original issue)

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

**Foreign AD:** Not applicable

**Revision:** This AD revises EASA AD 2019-0304 dated 16 December 2019.

## ATA 72 – Engine – Operational Restrictions

### Manufacturer(s):

Airbus

### Applicability:

Airbus A320-271N, A320-272N, A320-273N, A321-271N, A321-272N, A321-271NX and A321-272NX aeroplanes, manufacturer serial numbers (MSN) as listed in Appendix 1 of this AD.

### Definitions:

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

**The SB:** Pratt & Whitney Service Bulletin (SB) PW1000G-C-72-00-0111-00A-930A-D.

**Affected part:** Low pressure turbine (LPT) third stage blades, having part number (P/N) 5387343, P/N 5387493, P/N 5387473 or P/N 5387503.

**Affected engine:** International Aero Engines, LLC (IAE) model PW1122G-JM, PW1124G-JM, PW1124G1-JM, PW1127G-JM, PW1127GA-JM, PW1127G1-JM, PW1129G-JM, PW1130G-JM, PW1133G-JM and PW1133GA-JM engines, identified by serial number in the SB, having an affected part installed. An engine that has embodied IAE modification Kit P/N 5329620 in production, or the SB in service, does not have an affected part installed and is therefore not an affected engine.



**Groups:** Group 1 aeroplanes are those having two affected engines installed.

Group 2 aeroplanes are those that have only 1 affected engine installed, or no affected engines installed.

**Airbus date of manufacture:** The date of transfer of title (ownership) of the aeroplane upon delivery by Airbus to the first operator.

**Reason:**

Occurrences have been reported of finding damaged LPT third stage blades on Airbus A320 'NEO' aeroplanes which have affected engines installed. Investigation results determined that the affected parts have limited damage tolerance, and that, following impact at critical regions by foreign (originating from outside of the engine) or domestic (originating from inside of the engine) objects, instantaneous blade fracture may occur.

This condition, if not corrected, could lead to dual engine in-flight shut-down, possibly resulting in reduced control of the aeroplane.

To address this potentially unsafe condition, IAE developed improved LPT third stage blades and the SB was published to provide engine modification instructions, replacing the LPT 3rd stage disk, blades, locking plates, and shroud segments. Consequently, EASA issued AD 2019-0304 to require de-pairing of affected engines.

Since that AD was issued, it was determined that MSN of certain aeroplanes with CFM International LEAP-1A engines installed had inadvertently been included in the Applicability. This AD is revised to remove those aeroplanes and provide a correct Appendix 1 of this AD.

This AD is still considered to be an interim action and further AD action may follow.

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

Required as indicated, unless accomplished previously:

**Operational Restrictions:**

- (1) For Group 1 aeroplanes: Within 3 months after the effective date of this AD, remove one affected engine from service and, thereafter, ensure that at least one engine installed on the aeroplane is not an affected engine, as defined in this AD.

**Engine Installation:**

- (2) For Group 2 aeroplanes: From the effective date of this AD, do not install an affected engine, unless it is verified that the other engine on the aeroplane is not an affected engine, as defined in this AD.

**Credit:**

- (3) An aeroplane having Airbus modification 164937 embodied in production is not affected by the requirement of paragraph (1) of this AD, provided no engine has been replaced on that aeroplane since Airbus date of manufacture.



**Ref. Publications:**

Pratt & Whitney SB PW1000G-C-72-00-0111-00A-930A-D issue 1 dated 14 May 2019, or issue 2 dated 18 October 2019.

**Remarks:**

1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD.
2. Based on the required actions and the compliance time, EASA have decided to issue a Final AD with Request for Comments, postponing the public consultation process until after publication.
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](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).



## Appendix 1 – Affected Aeroplanes

6720	7329	8015	8417	8610	8906
6744	7331	8077	8426	8627	8922
6772	7343	8100	8432	8628	8928
6799	7391	8101	8436	8630	8932
6819	7396	8158	8440	8654	8937
6829	7449	8168	8455	8655	8952
6849	7470	8199	8459	8660	8961
6860	7477	8203	8460	8688	8967
6868	7504	8206	8461	8702	8968
6904	7510	8218	8465	8710	8978
6914	7530	8255	8492	8737	8995
6946	7544	8259	8511	8751	9031
6952	7548	8274	8515	8762	9045
6967	7610	8289	8527	8768	9059
6975	7618	8302	8533	8771	9072
7001	7892	8310	8540	8782	9079
7033	7912	8345	8541	8789	9085
7053	7914	8372	8557	8790	9091
7083	7920	8387	8558	8832	9118
7129	7931	8389	8570	8877	9155
7192	7961	8397	8586	8896	9283
7252	7968	8414	8587	8901	
7269	7991	8416	8598	8905	

