



Airworthiness Directive

AD No.: 2019-0304

Issued: 16 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

TCDS Number(s): EASA.A.064

Foreign AD: Not applicable

Supersedure: None

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.

For the reasons described above, this AD requires de-pairing of affected engines.

This AD is 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.
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.



Appendix 1 – Affected Aeroplanes

MSN						
6720	7343	8158	8419	8598	8782	8995
6744	7391	8168	8425	8609	8789	9022
6772	7396	8199	8426	8610	8790	9031
6799	7449	8203	8432	8627	8802	9035
6819	7470	8206	8436	8628	8806	9045
6829	7477	8218	8440	8630	8821	9059
6849	7504	8255	8455	8631	8832	9072
6860	7510	8259	8459	8636	8851	9077
6868	7530	8274	8460	8654	8877	9079
6904	7544	8282	8461	8655	8881	9085
6914	7548	8286	8465	8660	8895	9091
6946	7610	8289	8492	8688	8896	9118
6952	7618	8302	8511	8702	8901	9133
6967	7892	8310	8515	8704	8903	9137
6975	7912	8331	8518	8710	8905	9142
7001	7914	8345	8527	8719	8906	9155
7033	7920	8348	8533	8726	8922	9158
7053	7931	8372	8540	8737	8928	9159
7083	7961	8387	8541	8738	8932	9183
7129	7968	8389	8557	8739	8937	9283
7192	7991	8397	8558	8742	8952	
7252	8015	8414	8569	8751	8961	
7269	8077	8415	8570	8762	8967	
7329	8100	8416	8586	8768	8968	
7331	8101	8417	8587	8771	8978	

