



Notification of a Proposal to issue an Airworthiness Directive

PAD No.: 18-068R1

Issued: 06 July 2018

Note: This Proposed Airworthiness Directive (PAD) is issued by EASA, acting in accordance with Regulation (EC) 216/2008 on behalf of the European Union, its Member States and of the European third countries that participate in the activities of EASA under Article 66 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:

ROLLS-ROYCE plc

Type/Model designation(s):

RB211-524G and -524H engines

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

TCDS Number(s): EASA.E.062

Foreign AD: Not applicable

Supersedure: None

ATA 72 – Engine – Low Pressure Compressor Shafts – Life Reduction

Manufacturer(s):

Rolls-Royce plc (RR)

Applicability:

RB211-524G2-19, RB211-524G2-T-19, RB211-524G3-19, RB211-524G3-T-19, RB211-524H2-19, RB211-524H2-T-19, RB211-524H-36 and RB211-524H-T-36 engines, all serial numbers (s/n).

These engines are known to be installed on, but not limited to, Boeing 747 and Boeing 767 aeroplanes.

Definitions:

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

The NMSB: RR Alert Non-Modification Service Bulletin (NMSB) RB.211-72-AJ985.

Affected parts: LP compressor shafts, Part Number (P/N) UL24833, having a s/n as listed in Table 1 of this AD.



Reason:

It was reported that a number of low pressure (LP) compressor shafts have undergone unauthorised repairs, which were found to be detrimental to the approved shaft life.

This condition, if not corrected, could lead to fracture of the LP compressor shaft and release of high energy debris, possibly resulting in damage to, and reduced control of, the aeroplane.

To address this potentially unsafe condition, it has been decided that a life reduction must be imposed for those LP compressor shafts known to have been repaired. However, the history of some shafts has not been determined and the unauthorised repairs may not have been confirmed. To address all the shafts that have possibly been subject to the unauthorised repairs, RR issued the NMSB to provide instructions to reduce the life of the affected shafts.

After PAD 18-068 was published, it was determined that, irrespective of repair done or not, the part life is reduced, which would make the proposed required action more restrictive. In addition, one part s/n was found to be not affected. This PAD is revised accordingly and republished for additional consultation.

For the reasons described above, this AD requires removal from service of the affected parts.

Required Action and Compliance Time:

Required as indicated, unless accomplished previously:

Table 1 – Affected Parts

LP Compressor Shafts P/N UL24833, s/n:				
PATH3113	PATH3121	PAVN1765	PAVN1853	PAVN2152
PAVN2157	PAVN2259	PAVN2636	PAVN2991	PAVN2992

Removal from Service:

- (1) Before exceeding 10 500 flight cycles (FC) since first installation on an engine, or within 30 days after the effective date of this AD, whichever occurs later, remove each affected part from service in accordance with the instructions of the NMSB.

Parts Installation:

- (2) From the effective date of this AD, it is allowed to install on any engine an affected part, provided it has not exceeded 10 500 FC since its first installation on an engine.

Ref. Publications:

Rolls-Royce Alert NMSB RB.211-72-AJ985 original issue dated 17 April 2018.

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 20 July 2018.



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](#).
4. For any question concerning the technical content of the requirements in this PAD, please contact your designated Rolls-Royce representative, or download the publication from your Rolls-Royce Care account at <https://customers.rolls-royce.com>.

If you do not have a designated representative or Rolls-Royce Care account, please contact **Corporate Communications** at **Rolls-Royce plc**, P.O. Box 31, Derby, DE24 8BJ, United Kingdom
Telephone: +44 (0)1332 242424, or

send an email through <http://www.rolls-royce.com/contact-us.aspx> identifying the correspondence as being related to **Airworthiness Directives**.

