



Notification of a Proposal to issue an Airworthiness Directive

PAD No.: 25-171

Issued: 10 November 2025

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:

ROLLS-ROYCE DEUTSCHLAND Ltd & Co KG

Type/Model designation(s):

Trent XWB engines

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

TCDS Number(s): EASA.E.111

Foreign AD: Not applicable

Supersedure: None

ATA 73 – Engine – Fuel Pump – Replacement

Manufacturer(s):

Rolls-Royce plc

Applicability:

Trent XWB-97 engines, all serial numbers (s/n).

Definitions:

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

The NMSB: Rolls-Royce Non-Modification Alert Service Bulletin (NMSB) Trent XWB 73-AL207.

Where, in this AD, reference is made to a Rolls-Royce NMSB with an 'A' (Alert) in the number, it should be recognised that a later revision may not have that 'A'. This kind of change does not effectively alter the publication references for the purpose of this AD.

Affected part: Fuel pumps having Part Number (P/N) G5020FPU02 with an s/n post-PAK20-025, and in addition an s/n listed in Appendix 1 of the NMSB.



Note 1: Fuel pump s/n is formatted as “PAKYY-XXX” where ‘YY’ represents year of manufacturing and ‘XXX’ is the sequential number of manufactured units.

Serviceable part: Fuel pump eligible for installation in accordance with Rolls-Royce instructions, which is not an affected part; or an affected part which has not exceeded the engine hours and engine cycles as identified in Table 1 of this AD, as applicable.

Groups: Group 1 engines are those which have an affected part installed. Group 2 engines are all other engines.

Reason:

A low-speed aborted take-off, involving a Trent XWB-97 engine, was reported due to an inability to achieve the required commanded thrust. Subsequent investigation identified damage to the impeller assembly on the low-pressure side of the fuel pump P/N G5020FPU02. The root cause was identified as a fatigue mechanism affecting specific fuel pump units.

This condition, if not corrected, could lead to fuel pump failure, resulting in reduced thrust, potentially compromising safe operation of the aeroplane.

To address this potential unsafe condition, Rolls-Royce issued the NMSB introducing instructions to replace the affected parts.

For the reasons described above, this AD requires replacement of the affected part with a serviceable part.

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

Required as indicated by this AD, unless the action(s) required by this AD have been already accomplished:

Replacement:

- (1) For Group 1 engines: From the effective date of this AD, within the compliance time as identified in Table 1 of this AD, replace the affected part with a serviceable part in accordance with the instructions of the NMSB.

Table 1 – Compliance Time – **A**, **B** or **C**, whichever occurs later

A	Within 30 days after the effective date of this AD
B	For affected parts not listed in Appendix 1 or Appendix 2 of the NMSB: Before the affected part exceeds 10 000 engine hours or 1 100 engine cycles, whichever occurs first since new
C	For affected parts having an s/n listed in Appendix 1 or Appendix 2 of the NMSB: Before an affected part exceeds 10 000 engine hours or 1 100 engine cycles, whichever occurs first since last overhaul accomplished before the effective date of this AD, during which the NMSB or SB G5020FPU-73-01 has been accomplished, as applicable



Part(s) Installation:

- (2) For Group 1 and Group 2 engines: From the effective date of this AD, it is allowed to install an affected part on an engine, provided that the part is a serviceable part. After that installation, the engine is considered a Group 1 engine, and that affected part must be replaced as required by paragraph (1) of this AD.
- (3) From the effective date of this AD, installation of an engine on an aeroplane is allowed, provided that the engine is equipped with a serviceable part.

Ref. Publications:

Rolls-Royce Alert NMSB Trent XWB 73-AL207 dated 14 August 2025.

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 24 November 2025.
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 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 <https://www.rolls-royce.com/contact-us/civil-aerospace.aspx> identifying the correspondence as being related to **Airworthiness Directives**.

