

EASA	NOTIFICATION OF A PROPOSAL TO ISSUE AN AIRWORTHINESS DIRECTIVE
	PAD No.: 09-039 Date: 17 February 2009 Note: This Proposed Airworthiness Directive (PAD) is issued by EASA, acting in accordance with Regulation (EC) No 216/2008 on behalf of the European Community, 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 / cancellation 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 closing date indicated.	
Type Approval Holder's Name : ROLLS-ROYCE PLC	Type/Model designation(s) : RB211-Trent 500 Series Engines RB211-Trent 700 Series Engines RB211-Trent 800 Series Engines RB211-524 Series Engines
TCDS Number :	EASA TCDS No. E.060, EASA TCDS No. E.042, UK-CAA TCDS No. 1051, UK-CAA TCDS No. 1046, UK-CAA TCDS No. 1048
Foreign AD :	Not applicable
Supersedure :	None
ATA 72	Engine – High Pressure (HP) Compressor Stage 1 to 4 Rotor Discs and HP Compressor Rotor Shafts – Inspection
Manufacturer(s):	Rolls-Royce plc
Applicability:	1) RB211-Trent 500 series engines, all models, if HP Compressor Stage 1 to 4 Rotor Discs, Part Number FK30524 is installed. These engines are known to be installed, but not limited to Airbus A340 series aircraft. 2) RB211-Trent 700 series engines, all models, if Stage 1 to 4 Rotor Discs, Part Number FK22745, FK24031, FK26185, FK23313, FK25502, FK32129, FW20195, FW20196, FW20197, FW20638 or FW23711 is installed. These engines are known to be installed, but not limited to Airbus A330 series aircraft. 3) RB211-Trent 800 series engines, all models, if HP Compressor Rotor Shaft, Part Number FK24009, FK26167, FK32580, FW11590 or FW61622 is installed. These engines are known to be installed, but not limited to Boeing 777 series aircraft. 4) RB211- 524 series engines, models RB211-524H-T-36, H2-T-19, G2-T-19 and G3-T-19, if HP Compressor Rotor Shaft, Part Number FK25502, FK20195 or FW23711 is installed. These engines are known to be installed, but not limited to Boeing 747 and Boeing 767 series aircraft.
Reason:	During manufacture of a number of HP Compressor Stage 1 and 2 discs with

	axial dovetail slots, anomalies at the disc post corners have been found. Fatigue crack initiation and subsequent crack propagation at the disc post may result in release of two blades and the disc post. This may potentially be beyond the containment capabilities of the engine casings. Thus, these anomalies present at the disc posts constitute a potentially unsafe condition. This Airworthiness Directive requires inspection of the axial dovetail slots.
Effective Date:	[TBD: 14 days after final AD issue date]
Required Action(s) and Compliance Time(s):	Required as indicated unless accomplished previously, 1) If at the effective date of this Airworthiness Directive the engine is at Refurbishment (Level 3) shop visit or the engine is at Overhaul (Level 4) shop visit or the HP Compressor is at piece part level and the life of the HP Compressor Stage 1 to 4 Rotor Discs or the HP Compressor Rotor Shafts is greater than or equal to 1000 Cycles Since New (CSN) carry out the actions defined in Section 3. Accomplishment Instructions of Rolls-Royce Non-Modification Service Bulletin (NMSB) No. 72-AF964, Revision 1. 2) At every engine Refurbishment (Level 3) shop visit, every engine Overhaul (Level 4) shop visit or when the HP Compressor is at piece part level and the life of the HP Compressor Stage 1 to 4 Rotor Discs or the HP Compressor Rotor Shaft is greater than or equal to 1000 Cycles Since New (CSN) carry out the actions defined in Section 3. Accomplishment Instructions of Rolls-Royce NMSB No. 72-AF964, Revision 1.
Ref. Publications:	Rolls-Royce RB211 Propulsion System Non Modification Service Bulletin (NMSB) No. 72-AF964, Revision 1 The use of later approved revisions of this document is acceptable for compliance with the requirements of this AD.
Remarks :	1. This Proposed AD will be closed for consultation on 10 March 2009. 2. Enquiries regarding this PAD should be referred to the Airworthiness Directives, Safety Management & Research Section, Certification Directorate, EASA. E-mail ADs@easa.europa.eu. 3. For any questions concerning the technical content of the requirements in this PAD, please contact: Rolls-Royce plc., P.O. Box 31, Derby, DE24 8BJ, United Kingdom; Telephone: +44 (0) 1332 242424, Fax: +44 (0) 1332 249936; Email: tech.help@rolls-royce.com or download the publication from https://www.aeromanager.com/