

EASA	NOTIFICATION OF A PROPOSAL TO ISSUE AN AIRWORTHINESS DIRECTIVE
	PAD No.: 11-116 Date: 07 November 2011 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 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 Deutschland Ltd & Co KG	Type/Model designation(s) : BR700-715 engines
TCDS Number : EASA.E.023	
Foreign AD : not applicable	
Supersedure : None	
ATA 72	Engine – Low Pressure (LP) Compressor Booster Rotor – Inspection / Rework
Manufacturer(s):	Rolls-Royce Deutschland Ltd & Co KG
Applicability:	BR700-715A1-30, BR700-715B1-30 and BR700-715C1-30 engines, all Serial Numbers. These engines are known to be installed on, but not limited to Boeing 717 aeroplanes.
Reason:	Several LP compressor booster rotors have been found non compliant to original design. The technical investigations carried out by Rolls Royce Deutschland (RRD) revealed that this discrepancy is due to a manufacturing quality and that only some specific LP compressor booster rotor serial numbers are affected. This condition, if not corrected, could lead to an uncontained engine failure, potentially damaging the aeroplane and injuring its occupants, and/or injuring persons on the ground. To address this condition, RRD have developed an inspection programme and a rework for the affected LP compressor booster rotors. For the reasons described above, depending on engine type of operations, this AD requires repetitive Fluorescent Penetrant Inspections of the LP compressor booster rotor and depending on cracks finding, replacement with a serviceable part. This AD also requires rework of all affected LP compressor booster rotors.

Effective Date:	[TBD: 14 days after final AD issue date]									
Required action(s) and Compliance Time(s):	Required as indicated, unless accomplished previously: (1) For engines on which LP Compressor Booster Rotors with part number (P/N) BRH19215 or P/N BRH19871, with serial numbers (S/N) from 118 to 255 inclusive is installed, within the compliance times indicated in Table 1 of this AD, depending on engine type of operation, accomplish a Fluorescent Penetrant Inspection (FPI) of the LP compressor booster rotor, in accordance with the instructions of RRD Non Modification Service Bulletin (NMSB) SB-BR700-72-A900503 Rev. No. 4. Thereafter, at intervals not to exceed the value indicated in Table 1 of this AD, as applicable to the operation (rating) of the engine, repeat the FPI of the LP compressor booster rotor. Table 1 – Compliance Time(s) <table border="1" data-bbox="526 660 1465 1034"> <thead> <tr> <th>Engine type of operation (rating)</th><th>Initial FPI (whichever occurs later)</th><th>Repetitive FPI Interval (not to exceed)</th></tr> </thead> <tbody> <tr> <td>Hawaiian Flight Mission rating only</td><td>Before accumulating 36 000 Engine Cycles (EC), or within 500 EC after the effective date of this AD</td><td>6 000 EC</td></tr> <tr> <td>Any other rating, or combination of ratings</td><td>Before accumulating 18 000 EC, or within 500 EC after the effective date of this AD</td><td>4 000 EC</td></tr> </tbody> </table> (2) If a crack is detected during any inspection as required by paragraph (1) of this AD, before next flight, replace the LP compressor booster rotor with a serviceable part. Note 1: For the purpose of this AD, a serviceable LP compressor booster rotor is: - A LP Compressor booster rotor not having a P/N BRH19215 or a P/N BRH19871, with S/N from 118 to 255 inclusive; - Or a part having a P/N BRH19215 or P/N BRH19871, with S/N from 118 to 255 inclusive and this part is in compliance with the requirements of paragraph (1) of this AD. (3) At the next LP compressor booster rotor exposure during shop visit, but no later than 96 months after the effective date of this AD, rework the LP compressor booster rotor in accordance with the instructions of RRD SB-BR700-72-101683. Note 2: Rework of the LP compressor booster rotor can only be accomplished by RRD maintenance centres. Once the LP compressor booster rotor has been reworked, the part has a new P/N. (4) Replacement on an engine of the LP compressor booster rotor with a part not having a P/N BRH19215 or P/N BRH19871, with S/N from 118 to 255 inclusive, constitutes terminating action for the repetitive inspection requirements of paragraph (1) of this AD for that engine. (5) After the effective date of this AD, do not install an engine equipped with a LP Compressor Booster Rotor with P/N BRH19215 or P/N BRH19871, with S/N from 118 to 255 inclusive, unless in compliance with the requirements of this AD. (6) After the effective date of this AD, do not install a LP Compressor Booster Rotor with P/N BRH19215 or P/N BRH19871, with S/N from 118 to 255 inclusive, on an engine, unless in compliance with the requirements of this AD.	Engine type of operation (rating)	Initial FPI (whichever occurs later)	Repetitive FPI Interval (not to exceed)	Hawaiian Flight Mission rating only	Before accumulating 36 000 Engine Cycles (EC), or within 500 EC after the effective date of this AD	6 000 EC	Any other rating, or combination of ratings	Before accumulating 18 000 EC, or within 500 EC after the effective date of this AD	4 000 EC
Engine type of operation (rating)	Initial FPI (whichever occurs later)	Repetitive FPI Interval (not to exceed)								
Hawaiian Flight Mission rating only	Before accumulating 36 000 Engine Cycles (EC), or within 500 EC after the effective date of this AD	6 000 EC								
Any other rating, or combination of ratings	Before accumulating 18 000 EC, or within 500 EC after the effective date of this AD	4 000 EC								

Ref. Publications:	RRD NMSB Alert SB-BR700-72-A900503 Rev. No.4, dated 16 June 2011. RRD SB-BR700-72-101683, dated 20 September 2010. The use of later approved revisions of these documents is acceptable for compliance with the requirements of this AD.
Remarks :	1. This Proposed AD will be closed for consultation on 05 December 2011. 2. Enquiries regarding this PAD should be referred to the Safety Information Section, Executive Directorate, EASA. E-mail ADs@easa.europa.eu. 3. For any question concerning the technical content of the requirements in this PAD, please contact: Rolls-Royce Deutschland Ltd & Co KG Eschenweg 11, Dahlewitz, 15827 Blankenfelde-Mahlow, Germany, Telephone : +49 (0) 33 7086 1768; Fax: +49 (0) 33 7086 3356, Email rrd.aog@rolls-royce.com.