

EASA	AIRWORTHINESS DIRECTIVE
	AD No.: 2011-0175 Date: 08 September 2011 Note: This Airworthiness Directive (AD) 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.
This AD is issued in accordance with EC 1702/2003, Part 21A.3B. In accordance with EC 2042/2003 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 [EC 2042/2003 Annex I, Part M.A.303] or agreed with the Authority of the State of Registry [EC 216/2008, Article 14(4) exemption].	
Type Approval Holder's Name : Rolls-Royce plc	Type/Model designation(s) : RB211-524 series engines
TCDS Number :	UK CAA No. 1046 and 1048
Foreign AD :	Not applicable
Supersedure :	None
ATA 73	Engine Fuel and Control – Full Authority Fuel Controller (FAFC) – Modification
Manufacturer(s):	Rolls-Royce plc
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 up to 13819 inclusive. These engines are known to be installed on, but not limited to, Boeing 747 and Boeing 767 series aeroplanes.
Reason:	Several instances of fan blade cracking have been reported. The results of the subsequent technical investigation concluded that the cracking was caused by fan blade flutter at certain engine settings during prolonged ground running. This condition, if not corrected, could affect the integrity of the fan blades, leading to cracking of multiple fan blades and could possibly result in engine failure and release of uncontained high energy debris. To address this potential unsafe condition, Rolls Royce have developed modified FAFC software in order to ensure that the engine cannot experience prolonged running on ground at engine settings that would potentially jeopardise the integrity of the fan blades. For the reasons described above, this AD requires replacement of the FAFC with a modified one, incorporating software modification at issue 17.

Effective Date:	22 September 2011
Required Action(s) and Compliance Time(s):	Required as indicated, unless accomplished previously: (1) Within 40 months after the effective date of this AD, modify the engine by installing an FAFC featuring software at issue 17 in accordance with paragraph 3 of the Accomplishment Instructions of Rolls-Royce Service Bulletin (SB) RB211-73-AG054, Revision 2. (2) Engines which have been modified, before the effective date of this AD, in accordance with previous revisions of Rolls-Royce SB RB211-73-AG054 are compliant with the requirement of paragraph (1) of this AD. (3) From the effective date of this AD, do not install an FAFC on an engine unless the FAFC to be installed on that engine incorporates software at issue 17.
Ref. Publications:	Rolls-Royce SB RB211-73-AG054 Revision 2 dated 29 June 2011. The use of later approved revisions of this document is acceptable for compliance with the requirements of this AD.
Remarks :	1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD. 2. This AD was posted on 26 July 2011 as PAD 11-078 for consultation until 23 August 2011. The Comment Response Document can be found at http://ad.easa.europa.eu/. 3. Enquiries regarding this AD should be referred to the Safety Information Section, Executive Directorate, EASA. E-mail ADs@easa.europa.eu. 4. For any question concerning the technical content of the requirements in this AD, please contact your designated Rolls-Royce representative or download the publication from your Aeromanager account at www.aeromanager.com. If you do not have a designated representative or Aeromanager account, please contact Corporate Communications at Rolls-Royce plc. PO Box 31, Derby, DE24 8BJ, United Kingdom, telephone: +44 (0) 1332 242424, or send an e-mail through http://www.rolls-royce.com/contact/civil_team.jsp identifying the correspondence as being related to Airworthiness Directives: