



Airworthiness Directive

AD No.: 2013-0229R2

Issued: 29 July 2016

Note: This Airworthiness Directive (AD) 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.

This AD is issued in accordance with Regulation (EU) 748/2012, Part 21.A.3B. In accordance with Regulation (EU) 1321/2014 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 [Regulation (EU) 1321/2014 Annex I, Part M.A.303] or agreed with the Authority of the State of Registry [Regulation (EC) 216/2008, Article 14(4) exemption].

Design Approval Holder's Name:

ROLLS-ROYCE DEUTSCHLAND Ltd & Co KG

Type/Model designation(s):

BR700-725A1-12 engines

Effective Date: Revision 2: 29 July 2016
Revision 1: 21 November 2013
Original issue: 07 October 2013

TCDS Number(s): EASA.E.018

Foreign AD: Not applicable

Revision: This AD revises EASA AD 2013-0229R1 dated 21 November 2013.

ATA 73 – Engine Fuel and Control – Fuel Metering Unit – Replacement

Manufacturer(s):

Rolls-Royce Deutschland Ltd & Co KG (RRD)

Applicability:

BR700-725A1-12 engines, all serial numbers.

These engines are known to be installed on, but not limited to, Gulfstream GVI (commercial designation G650) aeroplanes.

Reason:

Occurrences have been reported of finding wear on the receptors of the double ended unions in the Fuel Metering Unit (FMU) housing on BR700-725A1-12 engines.

This condition, if not corrected, could lead to a fuel leak, possibly resulting in engine in-flight shut-down and consequent reduced control of the aeroplane.

To address this potential unsafe condition, RRD issued Alert Non-Modification Service Bulletin (NMSB) SB-BR700-73-A900309, providing instructions for FMU replacement in accordance with



revised installation procedure and EASA issued AD 2013-0229 (later revised) to require repetitive replacement of the FMU and prohibiting installation of FMU with Part Number (P/N) G3000FMU02.

Since AD 2013-0229R1 was issued, RRD issued Service Bulletin (SB) SB-BR700-73-101957, providing modification instructions to improve the engine fuel system and, for modified engines, eliminating the unsafe condition addressed by this AD.

For the reasons described above, this AD is revised to introduce an optional terminating action for the repetitive replacements required by this AD.

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

Required as indicated, unless accomplished previously:

Note 1: For the purpose of this AD, a serviceable FMU is a FMU with P/N G3000FMU03 having accumulated less than 650 flight hours (FH) since first installation on an aeroplane, or since last rework in accordance with RRD NMSB SB-BR700-73-A900309 at Revision 1 or later approved revisions, as applicable.

- (1) Before exceeding 650 FH accumulated by the FMU, or within 30 days after 07 October 2013 [the effective date of the original issue of this AD], whichever occurs later, and, thereafter, at intervals not to exceed 650 FH accumulated by the FMU, replace each FMU P/N G3000FMU02 and P/N G3000FMU03 with a serviceable FMU (see Note 1 of this AD) in accordance with the instructions of RRD Alert NMSB SB-BR700-73-A900309.
- (2) [Deleted – merged with paragraph (1) of this AD at R2]
- (3) From 07 October 2013 [the effective date of the original issue of this AD], do not install a FMU P/N G3000FMU02 on an engine, or an engine with FMU P/N G3000FMU02 installed on an aeroplane.
- (4) Modification of an engine in accordance with the instructions of RRD SB-BR700-73-101957 constitutes terminating action for the requirements of paragraph (1) of this AD.

Ref. Publications:

RRD Alert NMSB SB-BR700-73-A900309 initial issue dated 24 July 2013, or Revision 1 dated 8 November 2013.

RRD SB-BR700-73-101957 initial issue dated 21 April 2016.

The use of later approved revisions of these documents 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. Based on the required actions and the compliance time, EASA have decided to issue a Final AD with Request for Comments, postponing the public consultation process until after publication.
3. Enquiries regarding this AD should be referred to the EASA Safety Information Section, Certification Directorate. E-mail: ADs@easa.europa.eu.
4. For any question concerning the technical content of the requirements in this AD, please contact: Rolls-Royce Deutschland Ltd & Co KG, Eschenweg 11, Dahlewitz
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