



**United Kingdom  
Civil Aviation Authority**

**AIRWORTHINESS  
DIRECTIVE**

**AD No: G-2004-0001**

Issue Date: 22 January 2004

This AD is issued by the UK CAA acting for and on behalf of the European Aviation Safety Agency as the Primary Aviation Authority (ICAO Annex 8 Authority of State of Design) for the affected product(s).

Approved by the European Aviation Safety Agency under approval number 2004-444 on 16 January 2004.

In accordance with Article 9(7)(b) of the Air Navigation Order 2000 as amended the following action required by this Airworthiness Directive (AD) is mandatory for applicable aircraft registered in the United Kingdom.

No person may operate an aircraft to which an AD applies except in accordance with the requirements of that AD unless otherwise agreed with the Authority of the State of Registry.

Type Approval Holders Name:

**BAE SYSTEMS (OPERATIONS) LIMITED**

Type/Model Designation(s):

**BRITISH AEROSPACE ATP**

Type Certificate Data Sheet No: BA23

Superseded/ Revised ADs: None

**ATA 54 – NACELLES/PYLONS – INSPECTION OF BOLTS ATTACHING AFT ISOLATOR  
BRACKETS TO THE ENGINE SUBFRAME AFT MOUNTING BEAMS**

**Manufacturer(s):** BAE SYSTEMS (Operations) Limited

**Applicability:** British Aerospace Model ATP aeroplanes post modification 35256A (Service Bulletin ATP-54-10).

**Reason:** Service experience indicates that engine vibration can cause a reduction in torque loading of the bolts attaching the aft isolators to the engine subframe. Testing has demonstrated that reduced torque loading has an adverse effect on the fatigue life of the attachment bolts. In-service bolt failures have been reported. Failure of all bolts in the bolt group will affect the ability of the engine sub-frame to control the effects of resonance and whirl flutter, and may result in engine separation.

The inspections and any required rectification actions detailed in BAE SYSTEMS Service Bulletin ATP-54-20 are required to be performed to ensure continued airworthiness of the aeroplane.

**Effective Date:** 26 January 2004

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**Compliance/Action:**

- a) Within 2,000 landings after the last torque check was performed, either after implementing SB ATP-54-10 or installation of the powerplant in accordance with AMM 71-00-00-400-810, inspect each bolt attaching the aft isolator bracket to the engine subframe in accordance with paragraph 2A of Service Bulletin ATP-54-20 dated 29 July 2003 or later CAA approved revision.
- b) Where bolts have exceeded 1,700 landings since the last torque check, inspect each bolt attaching the aft isolator bracket to the engine subframe in accordance with paragraph 2A of Service Bulletin ATP-54-20 dated 29 July 2003 or later CAA approved revision, prior to the aeroplane exceeding 300 landings from the effective date of the Airworthiness Directive.
- c) From the effective date of this Airworthiness Directive and prior to installation to an aeroplane, spare quick engine change units (QECU) sub-frames must be inspected in accordance with paragraph 2A of Service Bulletin ATP-54-20 dated 29 July 2003 or later CAA approved revision.
- d) Repeat the inspection of each bolt attaching the aft isolator bracket to the engine subframe in accordance with paragraph 2A of Service Bulletin ATP-54-20 dated 29 July 2003 or later CAA approved revision, at an interval not exceeding 2,000 landings.

**Reference Publications:** BAE SYSTEMS (Operations) Limited Service Bulletin ATP-54-20 dated 29 July 2003, may be obtained from Project Management Group, Customer Information Department, BAE SYSTEMS (Operations) Limited, Prestwick International Airport, Ayrshire, KA9 2RW, Scotland. Telephone: +44 (0) 1292 675207 Facsimile: +44 (0) 1292 675704 E-mail: RApublications@baesystems.com.

**Remarks:** Enquiries regarding this Airworthiness Directive should be referred to Mr M P Gadd, Civil Aviation Authority, Aircraft Certification Section, Safety Regulation Group, Aviation House, Gatwick Airport South, West Sussex, RH6 0YR, United Kingdom. Telephone: +44 (0) 1293 573313 Facsimile: +44 (0) 1293 573976 E-mail: michael.gadd@srg.caa.co.uk