



**United Kingdom
Civil Aviation Authority**

**AIRWORTHINESS
DIRECTIVE**

AD No: G-2005-0014

Issue Date: 31 May 2005

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 2005-4654 on 25 May 2005.

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:

Type/Model Designation(s):

BAE SYSTEMS (OPERATIONS) LIMITED

BAE 146 and AVRO 146-RJ

Type Certificate Data Sheet No: BA16

Superseded/ Revised ADs: None

ATA 27- FLIGHT CONTROLS - REPLACEMENT OF ELEVATOR BEARINGS

Manufacturer(s): British Aerospace Systems (Regional Aircraft) Ltd, BAe Systems (Operations) Ltd, British Aerospace (Commercial Aircraft) Ltd, British Aerospace (Operations) Ltd, British Aerospace Plc, British Aerospace Regional Aircraft Ltd, British Aerospace Regional Aircraft Ltd T/A Avro International Aerospace.

Applicability: All model BAe 146 and AVRO 146-RJ series aeroplanes.

Reason: Reported instances of flight control surface restrictions have been associated with the deterioration of control surface bearings. The current bearings are a "sealed-for-life" type with a light dust shield and have no provisions for re-greasing. Over time, the original lubrication is lost and moisture can enter the bearing assembly. This can be exacerbated by the use of pressure washing. This deterioration can lead to bearing corrosion and will eventually lead to control restrictions, particularly when moisture in the bearing freezes. This could result in a catastrophic event.

Effective Date: 30 June 2005

Compliance/Action: Replace the flight control system bearings detailed in Table 1 of this AD, in accordance with BAE Systems (Operations) Ltd Service Bulletin ISB.27-177 Initial Issue or later EASA approved revision, before 31 October 2006 or before each bearing achieves 8 years time in service, whichever occurs later.

Table 1

Bearings to be replaced	Applicable Service Information
Elevator Servo Tab Hinge Bearings	BAE Systems (Operations) Service Bulletin ISB.27-177 Para 2.B (2).
Elevator Servo Tab Mechanism Bearings	BAE Systems (Operations) Service Bulletin ISB.27-177 Para 2. B (3).
Elevator Trim Tab Hinge Bearings	BAE Systems (Operations) Service Bulletin ISB.27-177 Para 2. B (4).
Elevator Trim Tab Drive Rod Bearings	BAE Systems (Operations) Service Bulletin ISB.27-177 Para 2. B (5).

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Reference Publications: BAE Systems (Operations) Service Bulletins 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 Directive should be referred to Certification and Approvals Department, Civil Aviation Authority, Safety Regulation Group, Aviation House, Gatwick Airport South, West Sussex, RH6 0YR, United Kingdom. Telephone: +44 (0) 1293 573315 Facsimile: +44 (0) 1293 573976 E-mail: Department.Certification@srg.caa.co.uk

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