



**United Kingdom
Civil Aviation Authority**

**AIRWORTHINESS
DIRECTIVE**

AD No: G-2004-0006

Issue Date: 2 March 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 2004-1698 on 26 February 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:

Type/Model Designation(s):

BAE SYSTEMS (OPERATIONS) LTD

AVRO 146-RJ

Type Certificate Data Sheet No: BA16

Superseded/ Revised ADs: None

ATA 34 – NAVIGATION - VHF NAVIGATION SYSTEM - TO INTRODUCE DISTANCE BEARING INDICATOR PART NO. 63543-280-2 - CORRECTION OF TRANSFORMER FAULT ON DISTANCE BEARING INDICATOR PART NO. 63543-280-1

Manufacturer(s): British Aerospace (Regional Aircraft) Ltd

Applicability: Model AVRO 146-RJ Series RJ70, RJ85 and RJ100 aeroplanes certificated in any category, fitted with Thales Avionics Distance Bearing Indicator (DBI) - part number 63543-280-1 with serial numbers 3084, 3171, 3442, 3443, 3485 to 3488, 3504, 3505, 3518 to 3521, 3528 to 3531, 3544 to 3547, 3551 to 3554, 3576, 3577, 3602 to 3605, 3624 to 3627, 3664, 3665, 3672, 3673, 3686, 3687, 3697 to 3700, 3717 to 3719, 3762 to 3765, 3787 to 3790, 3830 to 3833, 3858 to 3861, 3901, 3902, 3912 to 3915, 3955 to 3958, 3986 to 3989, 4017 to 4020, 4042 to 4045, 4070, 4071, 4099 to 4104, 4137 and 4138.

Reason: A manufacturing fault with the DBI PSU transformer could result in the propagation of the aircraft 115V AC input power supply through the instrument onto the DBI ARINC 429 Input/Output interfaces. An analysis of this failure concluded that at the aircraft level the failure effect could be loss of all aircraft primary navigation instruments.

Effective Date: 16 March 2004

Compliance/Action: Within four months after the effective date of this Airworthiness Directive, determine the part number and serial number of the Thales Distance Bearing Indicator installed, in accordance with BAE Systems (Operations) Service Bulletin SB 34-371-70671A dated 19 September 2003 or later CAA approved revision. If identified in the applicability above remove from the aeroplane and replace with a modified Thales Distance Bearing Indicator, part number 63543-280-2, or part number 63543-280-1 with a serial number not listed in the applicability above, or another approved Distance Bearing Indicator, in accordance with BAE Systems (Operations) Service Bulletin SB 34-371-70671A dated 19 September 2003 or later CAA approved revision.

Reference Publications: BAE Systems (Operations) Service Bulletin SB 34-371-70671A dated 19 September 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, Programmes Department, 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

