



United Kingdom Civil Aviation Authority

AIRWORTHINESS DIRECTIVE

AD No: G-2005-0024

Issue Date: 24 August 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 2005-6188 on 22 August 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

**HP137 JETSTREAM MARK 1, JETSTREAM
SERIES 200, 3100 AND 3200**

Type Certificate Data Sheet No: BA4 & BA15

Superseded/ Revised ADs: None

ATA 32 – MAIN LANDING GEAR – REMOVAL FROM SERVICE OF AN INCORRECTLY HEAT TREATED DOWN LOCK PISTON IN THE RADIUS ROD ASSEMBLY

Manufacturer(s): Handley Page Ltd, Scottish Aviation Ltd, British Aerospace PLC, British Aerospace (Commercial Aircraft) Ltd, British Aerospace Regional Aircraft Ltd, Jetstream Aircraft Ltd, British Aerospace (Operations) Ltd.

Applicability: Model Jetstream HP137 Mark 1 and Jetstream Series 200, 3100 and 3200 aeroplanes.

Reason: A batch of MLG downlock pistons with incorrect heat treatment have been installed into MLG radius rods fitted to the above aircraft types during overhaul. The effect of the incorrect heat treatment is reduced strength and hardness, which can lead to failure of the piston and/or contamination of the hydraulic system. Failure of the downlock piston in combination with a loss of hydraulic pressure could result in the collapse of the affected main landing gear, which during the critical phases of take-off and landing will result in a loss of directional control.

Effective Date: 30 September 2005

Compliance/Action: From the effective date of this AD.

- A.) At the next main landing gear radius rod overhaul but no later than 31 August 2010, remove from service and replace with a new or serviceable part any incorrectly heat treated radius rod down lock piston listed in Paragraph 1A of BAE SYSTEMS Service Bulletin 32-JA040547 Original Issue or later EASA approved revision. Replace defective components in accordance with Paragraph 1N of BAE SYSTEMS Service Bulletin 32-JA040547 Original Issue or later EASA revision.
- B.) No person shall install a radius rod assembly on an aircraft that contains a down lock piston identified in Paragraph 1A of BAE SYSTEMS Service Bulletin 32-JA040547 Original Issue or later EASA approved revision.

continued on next page

Reference Publications: BAE SYSTEMS (Operations) Limited 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: Remarks: Enquiries regarding this Airworthiness Directive should be referred to Certification and Approvals Department, Civil Aviation Authority, Aircraft Certification Section, 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