



**United Kingdom
Civil Aviation Authority**

**AIRWORTHINESS
DIRECTIVE**

AD No: G-2005-0012

Issue Date: 20 April 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 2005-3462 on 15 April 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

**HP 137 JETSREAM MK 1, JETSTREAM
SERIES 200, 3100 AND 3200**

Type Certificate Data Sheet No: BA4 and BA15

Superseded/ Revised ADs: 003-06-2003

ATA 32 – MAIN LANDING GEAR – REDESIGNED FOR RADIUS ROD RETENTION

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: Models HP 137 Jetstream Mk 1, Jetstream Series 200, 3100 and 3200 aeroplanes.

Reason: A potential unsafe condition has been identified from a single in-service incidence of migration of the MLG radius rod housing from the spherical bearing attachment at the wing root, which could lead to detachment and sudden collapse of the MLG leg. This has been classified as a Hazardous condition.

The cause of this migration has been established as incorrect swaging of the bearing sleeve, which cannot be detected with the radius rod actuator installed on the aircraft. AD 003-060-2003 required frequent repetitive inspection of the effected area to detect migration within the radius rod cylinder spherical joint. This Airworthiness Directive supersedes AD 003-06-2003 and mandates the installation a modified retention washer to prevent detachment of the MLG radius rod should migration from the spherical bearing occur.

Effective Date: 29 April 2005

Compliance/Action:

a) For aeroplanes previously inspected in accordance with AD 003-060-2003 and not modified in accordance with paragraph b) of this Airworthiness Directive, within 50 flight cycles since last the inspection in accordance with AD 003-060-2003 and thereafter at intervals not to exceed 50 flight cycles, inspect the main landing gear radius rod spherical bearing for evidence of migration from the radius rod cylinder in accordance with BAE Systems Service Bulletin 32-JA030340 Revision 1, or later EASA approved revision.

b) Within 2000 flight hours or one year of the effective date of this Airworthiness Directive, whichever occurs later, install the redesigned radius rod retention washer in accordance with paragraph 2 of BAE Systems Service Bulletin 32-JM5413, Original Issue, or later EASA approved revision.

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c) Prior to the accumulation of 5,000 flight cycles since installation of the redesigned radius rod retention washer in accordance with paragraph b) of this Airworthiness Directive, and thereafter at intervals not to exceed 5000 flight cycles, carry out a visual inspection of the radius rod cylinder and the retention washer for evidence of spherical bearing migration towards contact, contact or contact damage with the retention washer.

If bearing migration or retention washer damage is observed the radius rod and/or retention washer must be replaced prior to further flight.

Reference Publications: BAE SYSTEMS (Operations) Limited Service Bulletins, SB 32-JM5413, Original Issue, dated 5 August 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 the 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