

2010-09-02 British Aerospace Regional Aircraft: Amendment 39-16267; Docket No. FAA-2010-0123; Directorate Identifier 2010-CE-004-AD.

Effective Date

(a) This airworthiness directive (AD) becomes effective June 3, 2010.

Affected ADs

(b) None.

Applicability

(c) This AD applies to Jetstream Series 3101 and Jetstream Model 3201 airplanes, all serial numbers, certificated in any category.

Subject

(d) Air Transport Association of America (ATA) Code 27: Flight Controls.

Reason

(e) The mandatory continuing airworthiness information (MCAI) states:

BAE Systems have received three reports of uncommanded flap extensions affecting different Jetstream 31 aeroplanes. In one instance, the aeroplane exceeded the airspeed limit allowed for the uncommanded flap configuration, resulting in damage to the wing trailing edge.

Following investigation, it was considered that a loss of electrical signal to the "up" solenoid of the flap selector valve had occurred and, combined with the normal internal leakage in the hydraulic system, resulted in hydraulic pressure being supplied to the "down" side of the flap hydraulic jack. The loss of signal could have been intermittent, and the evidence strongly implicated oxide debris contamination of the flap selector switch contacts.

This condition, if not corrected, could lead to further cases of damage to the aeroplane due to airspeed limit exceedance, possibly resulting in asymmetric flap deployment, which could lead to loss of control of the aeroplane.

To address this unsafe condition, BAE Systems have developed a modification for the wiring to the flap selector switch, connecting a different (unused) pair of contacts to provide a duplicated signal path within the switch.

For the reasons described above, this AD requires the modification of the flap selector switch wiring.

Actions and Compliance

(f) Unless already done, within 6 months after June 3, 2010 (the effective date of this AD), install modification JM7861, Introduction of a Wire Link to Flap Selector Switch, following the accomplishment instructions of BAE Systems British Aerospace Jetstream Series 3100 & 3200 Service Bulletin 27-JM7861, dated February 12, 2008.

FAA AD Differences

Note: This AD differs from the MCAI and/or service information as follows: No differences.

Other FAA AD Provisions

(g) The following provisions also apply to this AD:

(1) Alternative Methods of Compliance (AMOCs): The Manager, Standards Office, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. Send information to ATTN: Taylor Martin, Aerospace Engineer, FAA, Small Airplane Directorate, 901 Locust, Room 301, Kansas City, Missouri 64106; telephone: (816) 329-4138; fax: (816) 329-4090. Before using any approved AMOC on any airplane to which the AMOC applies, notify your appropriate principal inspector (PI) in the FAA Flight Standards District Office (FSDO), or lacking a PI, your local FSDO.

(2) Airworthy Product: For any requirement in this AD to obtain corrective actions from a manufacturer or other source, use these actions if they are FAA-approved. Corrective actions are considered FAA-approved if they are approved by the State of Design Authority (or their delegated agent). You are required to assure the product is airworthy before it is returned to service.

(3) Reporting Requirements: For any reporting requirement in this AD, under the provisions of the Paperwork Reduction Act (44 U.S.C. 3501 et seq.), the Office of Management and Budget (OMB) has approved the information collection requirements and has assigned OMB Control Number 2120-0056.

Related Information

(h) Refer to MCAI European Aviation Safety Agency AD No.: 2009- 0267, dated December 17, 2009; and BAE Systems British Aerospace Jetstream Series 3100 & 3200 Service Bulletin 27-JM7861, dated February 12, 2008, for related information.

Material Incorporated by Reference

(i) You must use BAE Systems British Aerospace Jetstream Series 3100 & 3200 Service Bulletin 27-JM7861, dated February 12, 2008, to do the actions required by this AD, unless the AD specifies otherwise.

(1) The Director of the Federal Register approved the incorporation by reference of this service information under 5 U.S.C. 552(a) and 1 CFR part 51.

(2) For service information identified in this AD, contact BAE Systems (Operations) Ltd, Customer Information Department, Prestwick International Airport, Ayrshire, KA9 2RW, Scotland, United Kingdom; telephone +44 1292 675207, fax: +44 1292 675704; E-mail: RApublications@baesystems.com.

(3) You may review copies of the service information incorporated by reference for this AD at the FAA, Central Region, Office of the Regional Counsel, 901 Locust, Kansas City, Missouri 64106. For information on the availability of this material at the Central Region, call (816) 329-3768.

(4) You may also review copies of the service information incorporated by reference for this AD at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call (202) 741-6030, or go to:
http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html.