

2009-24-14 Empresa Brasileira de Aeronautica S.A. (EMBRAER): Amendment 39-16108; Docket No. FAA-2009-0870; Directorate Identifier 2009-CE-049-AD.

Effective Date

(a) This airworthiness directive (AD) becomes effective January 4, 2010.

Affected ADs

(b) None.

Applicability

(c) This AD applies to EMB-500 airplanes, serial numbers 50000005, 50000006, 50000008 through 50000036, 50000038 through 50000041, 50000043 through 50000046, 50000048, and 50000053, 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:

It has been found the possibility of elevator mass balance fasteners becoming slack under certain conditions. The loose of at least two fasteners may lead to an unbalance condition, which may induce flutter on airplane elevators. The MCAI requires replacement of the nuts of the right and left elevators mass balance fasteners.

Actions and Compliance

(f) Unless already done, do the following actions:

(1) Within the next 30 days after January 4, 2010 (the effective date of this AD), replace the nuts of the right-hand (RH) and left-hand (LH) elevators' mass balance fasteners with new ones of self-locking type bearing part number (P/N) MS21043-4. Do the replacements following Phenom by Embraer Service Bulletin No. 500- 55-0001, dated July 24, 2009.

(2) As of 30 days after January 4, 2010 (the effective date of this AD), only install self-locking type nuts, P/N MS21043-4, on the RH and LH elevators' mass balance fasteners.

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: Karl Schletzbaum, Aerospace Engineer, FAA, Small Airplane Directorate, 901 Locust, Room 301, Kansas City, Missouri 64106; telephone: (816) 329-4146; 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 Agencia Nacional de Aviaeo Civil (ANAC) Brazilian Airworthiness Directive AD No.: 2009-09-01, dated September 3, 2009, and Phenom by Embraer Service Bulletin No. 500-55-0001, dated July 24, 2009, for related information.

Material Incorporated by Reference

(i) You must use Phenom by Embraer Service Bulletin No. 500-55- 0001, dated July 24, 2009, 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 EMBRAER Empresa Brasileira de Aeronautica S.A., Phenom Maintenance Support, Av. Brig. Farina Lima, 2170, Sao Jose dos Campos-SP, CEP: 12227-901--PO Box: 38/2, BRASIL, telephone: ++55 12 3927-5383; fax: ++55 12 3927-2610; E-mail: reliability.executive@embraer.com.br; Internet: [http:// www.embraer.com.br](http://www.embraer.com.br).

(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.