
Effective Date

(a) This airworthiness directive (AD) becomes effective June 4, 2007.

Affected ADs

(b) None.

Applicability

(c) This AD applies to all Model TBM 700 airplanes fitted with nose landing gear (NLG) part number (P/N) 21130-001-02 with serial numbers (S/N) B155 through B173 and S/N EUR 174 through EUR 240, that are certificated in any U.S. category.

Subject

(d) Air Transport Association of America (ATA) Code 32: Landing Gear.

Reason

(e) The mandatory continuing airworthiness information (MCAI) describes the unsafe condition as follows:

* * * a Nose Landing Gear (NLG) hinge pin rupture that causes an uncommanded NLG retraction. Investigations identified the unsafe condition resulting from an incomplete thermal treatment done on three hinge pin batches lowering their mechanical properties with a high risk of deformation under service loads.

EADS SOCATA notes that an NLG hinge pin rupture could cause an uncommanded NLG retraction during landing.

Actions and Compliance

(f) Within 30 days after June 4, 2007 (the effective date of this AD), unless already done, do the following:

(1) Identify the NLG hinge pin batch number as instructed in paragraph B of the accomplishment instructions of EADS SOCATA TBM Aircraft Mandatory Alert Service Bulletin SB 70-147, Amendment 1, dated September 2006.

(i) For airplanes with the correct pin batch numbers, no further action is required. Return the airplane to service as instructed in EADS SOCATA TBM Aircraft Mandatory Alert Service Bulletin SB 70-147, Amendment 1, dated September 2006.
(ii) For airplanes with pins from the defective pin batch numbers or for which the batch number cannot be read, do all the actions as instructed in paragraphs B 5), C, and D of the accomplishment instructions of EADS SOCATA TBM Aircraft Mandatory Alert Service Bulletin SB 70-147, Amendment 1, dated September 2006.

(2) As of 30 days after June 4, 2007 (the effective date of this AD), do not install on any EADS SOCATA Model TBM 700 airplane an NLG actuator hinge pin coming from the three defective batches identified as EUR BC 21344-000-01, EUR BD 21344-000-01, and EUR BF 21344-000-01 on NLG part number 21130-001-02.

FAA AD Differences

Note: This AD differs from the MCAI and/or service information as follows: The service bulletin and MCAI require interim operational instructions until the corrective actions are done. This AD requires the corrective action at the same time as the pin batch number check.

Other FAA AD Provisions

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

(1) Alternative Methods of Compliance (AMOCs): The Manager, Standards Staff, FAA, ATTN: Albert J. Mercado, Aerospace Engineer, FAA, Small Airplane Directorate, 901 Locust, Room 301, Kansas City, Missouri, 64106; telephone: (816) 329-4119; fax: (816) 329-4090., has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19.

(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) This AD is related to European Aviation Safety Agency Emergency AD No. 2006-0271-E, Issue date: September 4, 2006, which references EADS SOCATA TBM Aircraft Mandatory Alert Service Bulletin SB 70-147, Amendment 1, dated September 2006.

Material Incorporated by Reference

(i) You must use EADS SOCATA TBM Aircraft Mandatory Alert Service Bulletin SB 70-147, Amendment 1, dated September 2006, 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 EADS SOCATA, Direction des Services, 65921 Tarbes Cedex 9, France; telephone: 33 (0)5 62.41.73.00; fax: 33 (0)5 62.41.76.54; or SOCATA Aircraft, INC., North Perry Airport, 7501 Airport Road, Pembroke Pines, Florida 33023; telephone: (954) 893-1400; fax: (954) 964-4141.

(3) You may review copies at the FAA, Central Region, Office of the Regional Counsel, 901 Locust, Room 506, Kansas City, Missouri 64106; or 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/cfr/ibr-locations.html.