

2009-26-08 AeroSpace Technologies of Australia Pty Ltd: Amendment 39-16143; Docket No. FAA-2009-0987; Directorate Identifier 2009-CE- 054-AD.

Effective Date

(a) This airworthiness directive (AD) becomes effective February 1, 2010.

Affected ADs

(b) This AD supersedes AD 2006-21-12, Amendment 39-14797.

Applicability

(c) This AD applies to Models N22B, N22S, and N24A airplanes, all serial numbers, including airplanes with float/amphibian configuration, 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:

Late in 2002 the manufacturer advised CASA of another Nomad accident which was possibly caused by aileron flutter with the flaps at 38 degrees. This, along with the other flutter incidents, has resulted in the manufacturer issuing ANMD-57-18 Issue 1 as a precautionary measure while they further investigate the issue.

The manufacturer has now completed their investigation and issued Alert Service Bulletin ANMD-27-53 to modify flap actuation linkages to restore the necessary rigidity to the outboard flap, and hence the aileron. The unacceptable flexibility of the outboard flap mechanism allows flutter to occur in extreme circumstances.

This amendment mandates Alert Service Bulletin ANMD-27-53, which requires modifications to the aircraft, but terminates the limitations imposed by earlier amendments.

Actions and Compliance

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

(1) Visually inspect the left-hand and right-hand ailerons for damage (i.e., distortion, bending, impact marks) and repair or replace any damaged aileron found following instructions obtained from the contact listed in paragraph (i)(3) of this AD within the following time:

(i) For Models N22B and N24A airplanes: Inspect within 50 hours time-in-service (TIS) after December 23, 2003 (the effective date retained from AD 2003-22-13).

(ii) For Model N22S airplanes: Inspect within the next 10 hours TIS after November 8, 2006 (the effective date retained from AD 2006-21-12), or within 30 days after November 8, 2006 (the effective date retained from AD 2006-21-12), whichever occurs first.

(iii) For all airplanes: Repair or replace before further flight after the inspection where damage is found.

(2) Adjust the engine power lever actuated landing gear "up" aural warning microswitches, perform a ground test, and if deficiencies are detected during the ground test, make the necessary adjustments following Nomad Alert Service Bulletin ANMD-57-18, Rev 1, dated August 14, 2006, within the following time:

(i) For Models N22B and N24A airplanes: Within 50 hours TIS after December 23, 2003 (the effective date retained from AD 2003- 22-13), unless already done following Nomad Alert Service Bulletin ANMD 57-18, dated December 19, 2002.

(ii) For Model N22S airplanes: Within the next 10 hours TIS after November 8, 2006 (the effective date retained from AD 2006-21- 12), or within 30 days after November 8, 2006 (the effective date retained from AD 2006-21-12), whichever occurs first.

(3) For all airplanes: Do the following within the next 10 hours TIS after February 1, 2010 (the effective date of this AD) or within 30 days after February 1, 2010 (the effective date of this AD), whichever occurs first:

(i) Incorporate the maximum flap extension limitations specified in paragraph 2.D. of Nomad Alert Service Bulletin ANMD-57-18, Rev 1, dated August 14, 2006, into the Limitations section of the airplane flight manual (AFM). To show compliance with this paragraph of this AD, a copy of page 7 of Nomad Alert Service Bulletin ANMD-57-18, Rev 1, dated August 14, 2006, may be inserted into the Limitations section of the AFM. You may take "unless already done credit" for this subparagraph if done in accordance with AD 2006-21-12 and no further action is required to comply with this subparagraph.

(ii) Fabricate (using at least 1/8-inch letters) and install placards on the instrument panel within the pilot's clear view as specified in paragraph 2.E. of Nomad Alert Service Bulletin ANMD-57- 18, Rev 1, dated August 14, 2006. You may take "unless already done credit" for this subparagraph if done in accordance with AD 2006- 21-12 and no further action is required to comply with this subparagraph.

(iii) Incorporate the landing performance information specified in paragraph 2.F. of Nomad Alert Service Bulletin ANMD-57-18, Rev 1, dated August 14, 2006, into the Limitations section and the Performance section of the AFM.

(4) For all airplanes: Modify the outboard forward flap linkage (Modification N953) and modify the outboard aft flap (aileron) mass balance following Nomad Alert Service Bulletin ANMD-27-53, dated February 20, 2008, within the next 12 months after February 1, 2010 (the effective date of this AD). Accomplishment of all of the actions specified in Nomad Alert Service Bulletin ANMD-27-53, dated February 20, 2008, terminates the limitations requirements and the placard requirements specified in paragraph (f)(3) of this AD.

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: Doug Rudolph, Aerospace Engineer, FAA, Small Airplane Directorate, 901 Locust, Room 301, Kansas City, Missouri 64106; telephone: (816) 329-4059; fax: (816) 329-4090; e-mail: doug.rudolph@faa.gov. 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 Civil Aviation Safety Authority of Australia, AD number AD/GAF-N22/69 Amdt 6, dated September 10, 2009; Nomad Alert Service Bulletin ANMD-27-53, dated February 20, 2008; and Nomad Alert Service Bulletin ANMD-57-18, Rev 1, dated August 14, 2006, for related information.

Material Incorporated by Reference

(i) You must use Nomad Alert Service Bulletin ANMD-27-53, dated February 20, 2008, and Nomad Alert Service Bulletin ANMD-57-18, Rev 1, dated August 14, 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 Nomad Alert Service Bulletin ANMD-27- 53, dated February 20, 2008, under 5 U.S.C. 552(a) and 1 CFR part 51.

(2) On November 8, 2006 (71 FR 61636, October 19, 2006), the Director of the Federal Register previously approved the incorporation by reference of Nomad Alert Service Bulletin ANMD-57- 18, Rev 1, dated August 14, 2006.

(3) For service information identified in this AD, contact Customer Support Manager, Gippsland Aeronautics Pty Ltd., P.O. Box 881, MORWELL, Victoria, 3040, Australia; phone: +61 3 5172 1200; fax: +61 3 5172 1201; e-mail: support@gippsaero.com.

(4) 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.

(5) 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.