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## **DEPARTMENT OF TRANSPORTATION**

### **Federal Aviation Administration**

#### **14 CFR Part 39**

**[Docket No. FAA-2014-0438; Directorate Identifier 2014-CE-015-AD; Amendment 39-17985; AD 2014-20-12]**

**RIN 2120-AA64**

#### **Airworthiness Directives; Alexandria Aircraft LLC Airplanes**

**AGENCY:** Federal Aviation Administration (FAA), DOT.

**ACTION:** Final rule.

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**SUMMARY:** We are superseding Airworthiness Directive (AD) 75-20-06 for certain Alexandria Aircraft LLC (type certificate previously held by Bellanca Aircraft Corp., Viking Aviation, Inc., and Bellanca, Inc.) Models 14-19-3A, 17-30, 17-30A, 17-31, 17-31A, 17-31ATC, and 17-31TC airplanes. AD 75-20-06 required repetitively inspecting the aft fuselage structure near the top of the vertical side tubing, which connects the horizontal stabilizer carry-through to the upper fuselage longeron, for cracks and installing the manufacturer's service repair kit as a terminating action for the repetitive inspections to repair any cracks found. Since we issued AD 75-20-06, we have determined that installing the service kit has not prevented cracks from occurring. We have also determined that all affected airplane serial numbers should be included in the Applicability section. This AD requires continued repetitive inspections of the aft fuselage structure near the top of the vertical side tubing for cracks and making all necessary replacements of cracked parts. This AD also adds additional serial number airplanes to the Applicability section. We are issuing this AD to correct the unsafe condition on these products.

**DATES:** This AD is effective November 12, 2014 November 12, 2014.

The Director of the Federal Register approved the incorporation by reference of a certain publication listed in this AD as of November 12, 2014.

**ADDRESSES:** For service information identified in this AD, contact Alexandria Aircraft LLC, 2504 Aga Drive, Alexandria, MN 5630; phone: (320) 763-4088; fax: (320) 763-4095; Internet: [www.bellanca-aircraft.com](http://www.bellanca-aircraft.com); email: [partsales@bellanca-aircraft.com](mailto:partsales@bellanca-aircraft.com). You may view this referenced service information at the FAA, Small Airplane Directorate, 901 Locust, Kansas City, Missouri 64106. For information on the availability of this material at the FAA, call (816) 329-4148.

## **Examining the AD Docket**

You may examine the AD docket on the Internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2014-0438; or in person at the Docket Management Facility between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The AD docket contains this AD, the regulatory evaluation, any comments received, and other information. The address for the Docket Office (phone: 800-647-5527) is Document Management Facility, U.S. Department of Transportation, Docket Operations, M-30, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue SE., Washington, DC 20590.

**FOR FURTHER INFORMATION CONTACT:** Steven Rosenfeld, Aerospace Engineer, FAA, Chicago Aircraft Certification Office, 2300 East Devon Avenue, Room 107, Des Plaines, IL 60018; phone: (847) 294-7030; fax: (847) 294-7834; email: [steven.rosenfeld@faa.gov](mailto:steven.rosenfeld@faa.gov).

## **SUPPLEMENTARY INFORMATION:**

### **Discussion**

We issued a notice of proposed rulemaking (NPRM) to amend 14 CFR part 39 to supersede AD 75-20-06, Amendment 39-2372 (40 FR 43484, September 22, 1975, ("AD 75-20-06"). AD 75-20-06 applied to certain Alexandria Aircraft LLC (type certificate previously held by Bellanca Aircraft Corp., Viking Aviation, Inc., and Bellanca, Inc.) Models 14-19-3A, 17-30, 17-30A, 17-31, 17-31A, 17-31ATC, and 17-31TC airplanes. The NPRM published in the Federal Register on July 2, 2014 (79 FR 37679). The NPRM was prompted by reports that cracks are still being found in the vertical side fuselage tube (F.S. 7) in the area near the upper fuselage longeron on airplanes that have had Bellanca Kit SK1234789-0004 installed, which is a terminating action for the repetitive inspections required in AD 75-20-06. The NPRM proposed to retain the inspection requirements of AD 75-20-06, remove the terminating action allowed in AD 75-20-06, and change the applicability to include all serial numbers. We are issuing this AD to correct the unsafe condition on these products.

### **Comments**

We gave the public the opportunity to participate in developing this AD. We received no comments on the NPRM (79 FR 37679, July 2, 2014) or on the determination of the cost to the public.

### **Conclusion**

We reviewed the relevant data and determined that air safety and the public interest require adopting this AD as proposed except for minor editorial changes. We have determined that these minor changes:

- Are consistent with the intent that was proposed in the NPRM (79 FR 37679, July 2, 2014) for correcting the unsafe condition; and
- Do not add any additional burden upon the public than was already proposed in the NPRM (79 FR 37679, July 2, 2014).

### **Costs of Compliance**

We estimate that this AD affects 847 airplanes of U.S. registry.  
We estimate the following costs to comply with this AD:

### Estimated Costs

Action	Labor cost	Parts cost	Cost per product	Cost on U.S. operators
Inspecting the horizontal stabilizer fuselage attachment tube and carry-thru tube support bracket (retained actions from AD 75-20-06)	1 work-hour × \$85 per hour = \$85	Not applicable	\$85	\$71,995

We estimate the following costs to do any necessary replacements that will be required based on the results of the inspection. We have no way of determining the number of aircraft that might need these replacements:

### On-Condition Costs

Action	Labor cost	Parts cost	Cost per product
Replacement of the horizontal stabilizer fuselage attachment tube and carry-thru tube support bracket	30 work-hours × \$85 per hour = \$2,550	\$575	\$3,125

### Authority for This Rulemaking

Title 49 of the United States Code specifies the FAA's authority to issue rules on aviation safety. Subtitle I, section 106, describes the authority of the FAA Administrator. Subtitle VII, Aviation Programs, describes in more detail the scope of the Agency's authority.

We are issuing this rulemaking under the authority described in Subtitle VII, Part A, Subpart III, section 44701, "General requirements." Under that section, Congress charges the FAA with promoting safe flight of civil aircraft in air commerce by prescribing regulations for practices, methods, and procedures the Administrator finds necessary for safety in air commerce. This regulation is within the scope of that authority because it addresses an unsafe condition that is likely to exist or develop on products identified in this rulemaking action.

### Regulatory Findings

We have determined that this AD will not have federalism implications under Executive Order 13132. This AD will not have a substantial direct effect on the States, on the relationship between the national government and the States, or on the distribution of power and responsibilities among the various levels of government.

For the reasons discussed above, I certify that this AD:

- (1) Is not a "significant regulatory action" under Executive Order 12866,
- (2) Is not a "significant rule" under DOT Regulatory Policies and Procedures (44 FR 11034, February 26, 1979),
- (3) Will not affect intrastate aviation in Alaska, and
- (4) Will not have a significant economic impact, positive or negative, on a substantial number of small entities under the criteria of the Regulatory Flexibility Act.

### List of Subjects in 14 CFR Part 39

Air transportation, Aircraft, Aviation safety, Incorporation by reference, Safety.

## **Adoption of the Amendment**

Accordingly, under the authority delegated to me by the Administrator, the FAA amends 14 CFR part 39 as follows:

### **PART 39—AIRWORTHINESS DIRECTIVES**

1. The authority citation for part 39 continues to read as follows:

Authority: 49 U.S.C. 106(g), 40113, 44701.

#### **§ 39.13 [Amended]**

2. The FAA amends § 39.13 by removing Airworthiness Directive (AD) 75-20-06, Amendment 39-2372 (40 FR 43484, September 22, 1975), and adding the following new AD:



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**2014-20-12 Alexandria Aircraft LLC:** Amendment 39-17985; Docket No. FAA-2014-0438; Directorate Identifier 2014-CE-015-AD.

**(a) Effective Date**

This AD is effective November 12, 2014.

**(b) Affected ADs**

This AD supersedes AD 75-20-06, Amendment 39-2372 (40 FR 43484, September 22, 1975, "AD 75-20-06").

**(c) Applicability**

This AD applies to Alexandria Aircraft LLC (type certificate previously held by Bellanca Aircraft Corp., Viking Aviation, Inc., and Bellanca, Inc.) Models 14-19-3A, 17-30, 17-30A, 17-31, 17-31A, 17-31ATC, and 17-31TC airplanes, all serial numbers (S/Ns), certificated in any category.

**(d) Subject**

Joint Aircraft System Component (JASC)/Air Transport Association (ATA) of America Code 53, Fuselage.

**(e) Unsafe Condition**

This AD was prompted by reports that cracks are still being found in the vertical side fuselage tube (fuselage station 7) in the area near the upper fuselage longeron on airplanes that have had Bellanca Kit SK1234789-0004 installed, which is a terminating action for the repetitive inspections required in AD 75-20-06. We are issuing this AD to detect and correct cracks in either vertical side fuselage tube (F.S. 7), which is adjacent to the horizontal stabilizer carry-through, in the area near the upper fuselage longeron to prevent failure of the horizontal stabilizer. This failure could cause reduced structural integrity of the fuselage and result in loss of control.

**(f) Compliance**

Comply with this AD within the compliance times specified in paragraphs (g) through (h) of this AD, unless already done.

**(g) Inspection**

(1) Models 14-19-3A and 17-31A, S/Ns 32-15 through 76-32-163; Models 17-30 and 17-30A, S/Ns 30263 through 76-30811; and Models 17-31, 17-31TC, and 17-31ATC, S/Ns 30004, and 31004 through 76-31124 (airplanes previously affected by AD 75-20-06): Within the next 100 hours time-in-service (TIS) after the last inspection completed by AD 75-20-06 or within the next 25 hours TIS after November 12, 2014 (the effective date of this AD), whichever occurs later, and repetitively

thereafter at intervals not to exceed 100 hours TIS, visually inspect the aft fuselage truss for cracks as specified in paragraph 4. INSPECTION of Alexandria Aircraft LLC Bellanca Service Letter 85, Revision B, dated April 8, 2004.

(2) Models 14-19-3A, 17-30, 17-30A, 17-31, 17-31A, 17-31ATC, and 17-31TC airplanes, all S/Ns not referenced in paragraph (g)(1) of this AD (airplanes not previously affected by AD 75-20-06): Before or upon the accumulation of 300 hours TIS or within the next 25 hours TIS after November 12, 2014 (the effective date of this AD), whichever occurs later, and repetitively thereafter at intervals not to exceed 100 hours TIS, visually inspect the aft fuselage truss for cracks as specified in paragraph 4. INSPECTION of Alexandria Aircraft LLC Bellanca Service Letter 85, Revision B, dated April 8, 2004.

#### **(h) Replacement**

If cracks are found during any inspection required by paragraphs (g)(1) and (g)(2) of this AD, before further flight, replace the cracked parts with FAA-approved zero-time parts as specified in paragraph 5. REPAIR of Alexandria Aircraft LLC Bellanca Service Letter 85, Revision B, dated April 8, 2004.

#### **(i) Alternative Methods of Compliance (AMOCs)**

(1) The Manager, Chicago Aircraft Certification Office (ACO), FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. In accordance with 14 CFR 39.19, send your request to your principal inspector or local Flight Standards District Office, as appropriate. If sending information directly to the manager of the ACO, send it to the attention of the person identified in paragraph (j) of this AD.

(2) Before using any approved AMOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager of the local flight standards district office/certificate holding district office.

(3) AMOCs approved for AD 75-20-06, Amendment 39-2372 (40 FR 43484, September 22, 1975) are not approved as AMOCs for the corresponding provisions of this AD.

#### **(j) Related Information**

For more information about this AD, Steven Rosenfeld, Aerospace Engineer, FAA, Chicago ACO, 2300 East Devon Avenue, Room 107, Des Plaines, IL 60018; phone: (847) 294-7030; fax: (847) 294-7834; email: steven.rosenfeld@faa.gov.

#### **(k) Material Incorporated by Reference**

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

(2) You must use this service information as applicable to do the actions required by this AD, unless the AD specifies otherwise.

(i) Alexandria Aircraft LLC Bellanca Service Letter 85, Revision B, dated April 8, 2004.

(ii) Reserved.

(3) For Alexandria Aircraft LLC service information identified in this AD, contact Alexandria Aircraft LLC, 2504 Aga Drive, Alexandria, MN 5630; phone: (320) 763-4088; fax: (320) 763-4095; Internet: [www.bellanca-aircraft.com](http://www.bellanca-aircraft.com); email: [partsales@bellanca-aircraft.com](mailto:partsales@bellanca-aircraft.com).

(4) You may view this service information at FAA, Small Airplane Directorate, 901 Locust, Kansas City, Missouri 64106. For information on the availability of this material at the FAA, call (816) 329-4148.

(5) You may view this service information that is incorporated by reference 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>.

Issued in Kansas City, Missouri, on September 26, 2014.  
Kelly A. Broadway,  
Acting Manager, Small Airplane Directorate,  
Aircraft Certification Service.