



AIRWORTHINESS DIRECTIVE

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2017-16-01 Ameri-King Corporation: Amendment 39-18978; Docket No. FAA-2016-6673; Directorate Identifier 2015-NM-092-AD.

(a) Effective Date

This AD is effective October 24, 2017.

(b) Affected ADs

None.

(c) Applicability

This AD applies to Ameri-King Corporation Model AK-450-() and AK-451-() series emergency locator transmitters (ELTs). This appliance is installed on, but not limited to, aircraft identified in table 1 to paragraph (c) of this AD.

Table 1 to Paragraph (c) of This AD—Certain Aircraft That Might Have Affected ELTs Installed

Aircraft	ELT model
Airbus rotorcraft	AK-451.
American Champion Aircraft Corp. airplanes	AK-450 and AK-451.
Aviat Aircraft Inc. airplanes	AK-450.
Beechcraft Corporation airplanes	AK-451.
Bombardier Inc. airplanes	AK-451.
Cessna Aircraft Company airplanes	AK-451.
Cirrus Design Corporation airplanes	AK-451.
Diamond Aircraft Industries Inc. airplanes	AK-450 and AK-451.
Eclipse Aerospace Inc. airplanes	AK-451.
Embraer S.A. airplanes	AK-451.
KitFox Aircraft LLC (formerly SkyStar Aircraft Corporation and also Denney Aerocraft Company) airplanes	AK-450.
Luscombe Aircraft Corporation airplanes	AK-450 and AK-451.
Mooney Aircraft Corporation airplanes	AK-450.

Piper Aircraft Inc. airplanes	AK-451.
Robinson Helicopter Company rotorcraft	AK-451.
Sikorsky Aircraft Corporation rotorcraft	AK-451.
SOCATA, S.A., Socata Groupe Aerospatiale airplanes	AK-450.
Twin Commander Aircraft LLC airplanes	AK-451.

(d) Subject

Joint Aircraft System Component (JASC)/Air Transport Association (ATA) of America Code 2562, Emergency Locator Beacon.

(e) Unsafe Condition

This AD was prompted by multiple reports of ELT failure. This AD was also prompted by a report of noncompliance to quality standards and manufacturer processes related to Ameri-King Corporation ELTs. Failure to adhere to these standards and processes could result in ELTs that do not function. We are issuing this AD to detect and correct nonfunctioning ELTs, which, if not corrected, could delay or impede the rescue of the flightcrew and passengers after an emergency landing.

(f) Compliance

Comply with this AD within the compliance times specified, unless already done.

(g) Repetitive Actions and Corrective Actions

Within 12 months after the effective date of this AD, do general visual inspections of the ELT for discrepancies; checks, tests, and verifications, as applicable, to ensure the ELT is functioning; and all applicable corrective actions; in accordance with section 3.4, "Periodic Maintenance," of Ameri-King Corporation Document IM-450, "INSTALLATION & OPERATION MANUAL," Revision A, dated October 18, 1995; or section 3.4, "Periodic Maintenance (Instructions for Continued Airworthiness)," Ameri-King Corporation Document IM-451, "INSTALLATION AND OPERATION MANUAL," Revision NC-4.1h, dated July 5, 2014; as applicable; and as required by paragraph (h) of this AD. Do all applicable corrective actions following 14 CFR 91.207(a), 14 CFR 91.207(f), and 14 CFR 135.168, as applicable, and other applicable operating rules under subchapters F and G of 14 CFR chapter I (hereafter referred to as "other applicable operating rules") after accomplishing the inspections, checks, tests, and verifications. Repeat the inspections and applicable checks, tests, and verifications thereafter at intervals not to exceed 12 months until the terminating action specified in paragraph (j) of this AD is done. Operators are not required to get replacement batteries from Ameri-King Corporation.

(h) Additional Corrective Actions

(1) If, during any action required by paragraph (g) of this AD, any ELT fails the functional test specified in step 6., the verification specified in step 7., or the activation check specified in step 8., of section 3.4, "Periodic Maintenance," of Ameri-King Corporation Document IM-450, "INSTALLATION & OPERATION MANUAL," Revision A, dated October 18, 1995, do the actions specified in paragraph (h)(1)(i) or (h)(1)(ii) of this AD.

(i) Replace the affected Model AK-450-() ELT with a serviceable FAA-approved ELT as specified in paragraph (i) of this AD ("Definition of Serviceable FAA-approved ELT"), following 14

CFR 91.207(a), 14 CFR 91.207(f), and 14 CFR 135.168, as applicable, and other applicable operating rules.

(ii) Repair the ELT using approved maintenance practices and following 14 CFR 91.207(a), 14 CFR 91.207(f), and 14 CFR 135.168, as applicable, and other applicable operating rules.

(2) If, during any action required by paragraph (g) of this AD, any ELT fails any of the actions specified in paragraphs (h)(2)(i) through (h)(2)(v) of this AD: Replace the affected Model AK-451-() ELT with a serviceable FAA-approved ELT as specified in paragraph (i) of this AD (“Definition of Serviceable FAA-approved ELT”), following 14 CFR 91.207(a), 14 CFR 91.207(f), and 14 CFR 135.168, as applicable, and other applicable operating rules; or repair the ELT using approved maintenance practices and following 14 CFR 91.207(a), 14 CFR 91.207(f), and 14 CFR 135.168, as applicable, and other applicable operating rules.

(i) The operational test specified in step 3.4.6 of section 3.4, “Periodic Maintenance (Instructions for Continued Airworthiness),” of Ameri-King Corporation Document IM-451, “INSTALLATION AND OPERATION MANUAL,” Revision NC-4.1h, dated July 5, 2014.

(ii) Any check specified in step 3.4.7 of section 3.4, “Periodic Maintenance (Instructions for Continued Airworthiness),” of Ameri-King Corporation Document IM-451, “INSTALLATION AND OPERATION MANUAL,” Revision NC-4.1h, dated July 5, 2014.

(iii) The digital message verification specified in step 3.4.8 of section 3.4, “Periodic Maintenance (Instructions for Continued Airworthiness),” of Ameri-King Corporation Document IM-451, “INSTALLATION AND OPERATION MANUAL,” Revision NC-4.1h, dated July 5, 2014.

(iv) The registration verification specified in step 3.4.9 of section 3.4, “Periodic Maintenance (Instructions for Continued Airworthiness),” of Ameri-King Corporation Document IM-451, “INSTALLATION AND OPERATION MANUAL,” Revision NC-4.1h, dated July 5, 2014.

(v) The verification of the ELT and global positioning system (GPS) interface specified in step 3.4.10 of section 3.4, “Periodic Maintenance (Instructions for Continued Airworthiness),” of Ameri-King Corporation Document IM-451, “INSTALLATION AND OPERATION MANUAL,” Revision NC-4.1h, dated July 5, 2014.

(3) If, during any action required by paragraph (g) of this AD, any of the discrepancies specified in paragraphs (h)(3)(i) through (h)(3)(vi) of this AD are found, repair all discrepancies using approved maintenance practices and following 14 CFR 91.207(a), 14 CFR 91.207(f), and 14 CFR 135.168, as applicable, and other applicable operating rules.

(i) Any unsecured fastener or mechanical assembly.

(ii) Any cuts or abrasions on the coaxial cable outer jacket.

(iii) Any corrosion on the “BNC” connectors and mating plug on the antenna and the ELT main unit.

(iv) Any wear or abrasion on the modular cable outer jacket.

(v) Any corrosion on the jack and plug of the modular connecting cable.

(vi) Any corrosion on the battery compartment.

(i) Definition of Serviceable FAA-Approved ELT

For the purposes of this AD, a serviceable FAA-approved ELT is any FAA-approved ELT other than a Model AK-450-() and AK-451-() series ELT produced by Ameri-King Corporation.

(j) Optional Terminating Action

Doing the applicable action specified in paragraph (j)(1) or (j)(2) of this AD terminates the actions required by paragraphs (g) and (h) of this AD.

(1) For aircraft required by operating regulations to be equipped with an ELT: Replace the ELT with a serviceable FAA-approved ELT as specified in paragraph (i) of this AD (“Definition of Serviceable FAA-approved ELT”).

(2) For aircraft not required by operating regulations to be equipped with an ELT: Replace the ELT with a serviceable FAA-approved ELT as specified in paragraph (i) of this AD (“Definition of Serviceable FAA-approved ELT”). The ELT may be removed as an alternative to the ELT replacement; if an ELT is re-installed, it must be a serviceable ELT as specified in paragraph (i) of this AD (“Definition of Serviceable FAA-approved ELT”).

(k) Alternative Methods of Compliance (AMOCs)

(1) The Manager, Los Angeles Aircraft Certification Office, 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 (l) 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.

(l) Related Information

For more information about this AD, contact Gilbert Ceballos, Aerospace Engineer, Systems and Equipment Branch, ANM-130L, FAA, Los Angeles Aircraft Certification Office (ACO), 3960 Paramount Boulevard, Lakewood, CA 90712-4137; phone: 562-627-5372; fax: 562-627-5210; email: gilbert.cebaldos@faa.gov.

(m) 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) Section 3.4, “Periodic Maintenance,” Ameri-King Corporation Document IM-450, “INSTALLATION & OPERATION MANUAL,” Revision A, dated October 18, 1995.

(ii) Section 3.4, “Periodic Maintenance (Instructions for Continued Airworthiness),” Ameri-King Corporation Document IM-451, “INSTALLATION AND OPERATION MANUAL,” Revision NC-4.1h, dated July 5, 2014.

(3) For service information identified in this AD, contact Gilbert Ceballos, Aerospace Engineer, Systems and Equipment Branch, ANM-130L, FAA, Los Angeles Aircraft Certification Office (ACO), 3960 Paramount Boulevard, Lakewood, CA 90712-4137; phone: 562-627-5372; fax: 562-627-5210; email: gilbert.cebaldos@faa.gov.

(4) You may view this service information at the FAA, Transport Airplane Directorate, 1601 Lind Avenue SW., Renton, WA. For information on the availability of this material at the FAA, call 425-227-1221.

(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 Renton, Washington, on July 19, 2017.
Michael Kaszycki,
Acting Manager, Transport Airplane Directorate,
Aircraft Certification Service.