



**FAA**  
**Aviation Safety**

# **EMERGENCY**

## **AIRWORTHINESS DIRECTIVE**

[www.faa.gov/aircraft/safety/alerts/](http://www.faa.gov/aircraft/safety/alerts/)

---

**DATE: October 6, 2011**

**AD #: 2011-21-51**

Emergency airworthiness directive (AD) 2011-21-51 is sent to owners and operators of Cessna Aircraft Company Model 525C airplanes.

### **Background**

This emergency AD was prompted by a report of a battery fire that resulted after an energized ground power unit was connected to one of the affected airplanes equipped with a lithium-ion battery, Cessna part number (P/N) 9914788-1, as the main aircraft battery. This condition, if not corrected, could result in an aircraft fire.

### **Relevant Service Information**

We reviewed Cessna Citation Service Bulletin SB525C-24-05, dated September 29, 2011. The service information describes procedures for replacing lithium-ion main aircraft batteries, Cessna P/N 9914788-1, with Ni-Cad or lead acid batteries.

### **FAA's Determination**

We are issuing this AD because we evaluated all the relevant information and determined the unsafe condition described previously is likely to exist or develop in other products of the same type design.

### **AD Requirements**

This AD requires accomplishing the actions specified in the service information described previously.

### **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.

## **Presentation of the Actual AD**

We are issuing this AD under 49 U.S.C. Section 44701 according to the authority delegated to me by the Administrator.

**2011-21-51 Cessna Aircraft Company:** Directorate Identifier 2011-CE-036-AD.

### **(a) Effective Date**

This Emergency AD is effective upon receipt.

### **(b) Affected ADs**

None.

### **(c) Applicability**

This AD applies to Cessna Aircraft Company Model 525C airplanes, serial numbers 0001 through 0052, that:

(1) have a lithium-ion battery, Cessna part number (P/N) 9914788-1, installed as the main aircraft battery; and

(2) are certificated in any category.

### **(d) Subject**

Joint Aircraft System Component (JASC)/Air Transport Association (ATA) of America Code 2432; Battery/Charger.

### **(e) Unsafe Condition**

This AD was prompted by a report of a battery fire that resulted after an energized ground power unit was connected to one of the affected airplanes equipped with a lithium-ion battery as the main aircraft battery. We are issuing this AD to prevent a potential battery fault that could lead to an aircraft fire.

### **(f) Compliance**

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

### **(g) Replace the Lithium-ion Main Aircraft Battery, Cessna P/N 9914788-1**

(1) Within the next 10 hours time-in-service after the effective date of this AD or within the next 7 days after the effective date of this AD, whichever occurs first, replace the lithium-ion main aircraft battery, P/N 9914788-1, following Cessna Citation Service Bulletin SB525C-24-05, dated September 29, 2011.

(2) As of the effective date of this AD, do not install a lithium-ion battery, P/N 9914788-1, on any of the affected airplanes.

**(h) Special Flight Permits**

Special flight permits under 14 CFR 39.23 are allowed with the following limitation: “Single and non-revenue flights only.”

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

(1) The Manager, Wichita 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 the Related Information section 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.

**(f) Related Information**

(1) For further information about this AD, contact: Richard Rejniak, Aerospace Engineer, Wichita ACO, FAA, 1801 Airport Road, Room 100, Wichita, Kansas 67209; phone: (316) 946-4128; fax: (316) 946-4107; email: richard.rejniak@faa.gov.

(2) For copies of the service information referenced in this AD, contact: Cessna Aircraft Company, Product Support, P.O. Box 7706, Wichita, KS 67277; telephone: (316) 517-6000; fax: (316) 517-8500; email: Customercare@cessna.textron.com; Internet: <http://www.cessna.com>. You may review copies of the 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.

Issued in Kansas City, Missouri, on October 6, 2011.

Earl Lawrence,  
Manager, Small Airplane Directorate,  
Aircraft Certification Service.