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## **DEPARTMENT OF TRANSPORTATION**

### **Federal Aviation Administration**

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

**[Docket No. FAA-2012-1111; Directorate Identifier 2012-NM-114-AD; Amendment 39-17342; AD 2013-03-07]**

**RIN 2120-AA64**

**Airworthiness Directives; Hawker Beechcraft Corporation (Type Certificate Previously Held by Raytheon Aircraft Company; Beech Aircraft Corporation) Airplanes**

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

**ACTION:** Final rule.

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**SUMMARY:** We are adopting a new airworthiness directive (AD) for certain Hawker Beechcraft Corporation (Type Certificate previously held by Raytheon Aircraft Company; Beech Aircraft Corporation) Model 400A airplanes. This AD was prompted by a report that the wiring for the 5-volt direct current (DC) system is undersized and does not have adequate circuit protection for the smaller gauge wire. This AD requires installing an in-line fuse in the 5-volt DC system for each of the five instrument lighting control power supplies. We are issuing this AD to prevent failure of the wiring, which could result in smoke in the cockpit, loss of cockpit lighting, and potential damage to surrounding wiring for other cockpit equipment such as the stick shaker function or angle-of-attack indicators.

**DATES:** This AD is effective March 19, 2013.

The Director of the Federal Register approved the incorporation by reference of a certain publication listed in the AD as of March 19, 2013.

**ADDRESSES:** For service information identified in this AD, contact Hawker Beechcraft Corporation, Department 62, P.O. Box 85, Wichita, KS 67201-0085; telephone 316-676-8238; fax 316-676-6706; email [tmcd@hawkerbeechcraft.com](mailto:tmcd@hawkerbeechcraft.com); Internet [https://www.hawkerbeechcraft.com/service\\_support/pubs](https://www.hawkerbeechcraft.com/service_support/pubs). You may review copies of the referenced service information at the FAA, Transport Airplane Directorate, 1601 Lind Avenue SW., Renton, Washington. For information on the availability of this material at the FAA, call 425-227-1221.

## Examining the AD Docket

You may examine the AD docket on the Internet at <http://www.regulations.gov>; 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:** Richard Rejniak, Aerospace Engineer, Electrical Systems and Avionics Branch, ACE-119W, FAA, Wichita Aircraft Certification Office, 1801 Airport Road, Room 100, Mid-Continent Airport, Wichita, Kansas 67209; phone: (316) 946-4128; fax (316) 946-4107; email: [richard.rejniak@faa.gov](mailto:richard.rejniak@faa.gov).

## SUPPLEMENTARY INFORMATION:

### Discussion

We issued a notice of proposed rulemaking (NPRM) to amend 14 CFR part 39 to include an AD that would apply to the specified products. That NPRM published in the Federal Register on November 5, 2012 (77 FR 66411). That NPRM proposed to require installing an in-line fuse in the 5-volt DC system for each of the five instrument lighting control power supplies.

### Comments

We gave the public the opportunity to participate in developing this AD. We received no comments on the NPRM (77 FR 66411, November 5, 2012) 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 the AD as proposed.

### Costs of Compliance

We estimate that this AD affects 421 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
Installation	10 work-hours x \$85 per hour = \$850.	\$285	\$1,135	\$477,835

According to the manufacturer, some of the costs of this AD may be covered under warranty, thereby reducing the cost impact on affected individuals. We do not control warranty coverage for affected individuals. As a result, we have included all costs in our cost estimate.

## **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**

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 adding the following new airworthiness directive (AD):



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**2013-03-07 Hawker Beechcraft Corporation (Type Certificate Previously Held by Raytheon Aircraft Company; Beech Aircraft Corporation):** Amendment 39-17342; Docket No. FAA-2012-1111; Directorate Identifier 2012-NM-114-AD.

**(a) Effective Date**

This AD is effective March 19, 2013.

**(b) Affected ADs**

None.

**(c) Applicability**

This AD applies to the airplanes identified in paragraphs (c)(1) and (c)(2) of this AD, certificated in any category.

(1) Hawker Beechcraft Corporation (Type Certificate previously held by Raytheon Aircraft Company; Beech Aircraft Corporation) Model 400A airplanes having serial numbers RK-45 and RK-49 through RK-353 inclusive.

(2) Hawker Beechcraft Corporation (Type Certificate previously held by Raytheon Aircraft Company; Beech Aircraft Corporation) Model 400A airplanes (marketed as Hawker 400XP airplanes) having serial numbers RK-354 through RK-594 inclusive.

**(d) Subject**

Joint Aircraft System Component (JASC)/Air Transport Association (ATA) of America Code 2497; Electrical Power System Wiring.

**(e) Unsafe Condition**

This AD was prompted by a report that the wiring for the 5-volt direct current (DC) system is undersized and does not have adequate circuit protection for the smaller gauge wire. We are issuing this AD to prevent failure of the wiring, which could result in smoke in the cockpit, loss of cockpit lighting, and potential damage to surrounding wiring for other cockpit equipment such as the stick shaker function or angle-of-attack indicators.

**(f) Compliance**

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

**(g) Fuse Replacement**

Within 400 flight hours or 12 months after the effective date of this AD, whichever occurs first, install an in-line fuse assembly in the 5-volt DC output circuit on each of the five instrument lighting power supplies, in accordance with the Accomplishment Instructions of Hawker Beechcraft

Mandatory Service Bulletin SB 33-4002, dated October 2010. A note in the Accomplishment Instructions of Hawker Beechcraft Mandatory Service Bulletin SB 33-4002, dated October 2010, instructs operators to contact Hawker Beechcraft if any difficulty is encountered in accomplishing that service bulletin. However, any deviation from the instructions provided in Hawker Beechcraft Mandatory Service Bulletin SB 33-4002, dated October 2010, must be approved as an alternative method of compliance (AMOC) under the provisions of paragraph (i) of this AD.

#### **(h) Special Flight Permit**

Special flight permits may be issued in accordance with sections 21.197 and 21.199 of the Federal Aviation Regulations (14 CFR 21.197 and 21.199) to operate the airplane to a location where the airplane can be modified (if the operator elects to do so), provided that the flight is conducted under visual flight rules (VFR) day conditions.

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

(1) The Manager, Wichita 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 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.

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

For more information about this AD, contact Richard Rejniak, Aerospace Engineer, Electrical Systems and Avionics Branch, ACE-119W, FAA, Wichita Aircraft Certification Office, 1801 Airport Road, Room 100, Mid-Continent Airport, Wichita, Kansas 67209; phone: (316) 946-4128; fax: (316) 946-4107; email: richard.rejniak@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) Hawker Beechcraft Mandatory Service Bulletin SB 33-4002, dated October 2010.

(ii) Reserved.

(3) For service information identified in this AD, contact Hawker Beechcraft Corporation, Department 62, P.O. Box 85, Wichita, KS 67201-0085; telephone 316-676-8238; fax 316-676-6706; email [tmdc@hawkerbeechcraft.com](mailto:tmdc@hawkerbeechcraft.com); Internet [https://www.hawkerbeechcraft.com/service\\_support/pubs](https://www.hawkerbeechcraft.com/service_support/pubs).

(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 January 30, 2013.  
Ali Bahrami,  
Manager, Transport Airplane Directorate,  
Aircraft Certification Service.