

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2007-27976; Directorate Identifier 2007-CE-042-AD; Amendment 39-15125; AD 2007-14-03]

RIN 2120-AA64

Airworthiness Directives; Cirrus Design Corporation Models SR20 and SR22 Airplanes

AGENCY: Federal Aviation Administration (FAA), Department of Transportation (DOT).

ACTION: Final rule.

SUMMARY: We are adopting a new airworthiness directive (AD) for certain Cirrus Design Corporation (CDC) Models SR20 and SR22 airplanes. This AD requires you to replace the pick-up collar support and nylon screws, of the Cirrus Airplane Parachute System (CAPS), with a new design pick-up collar support and custom tension screws. This AD results from a CDC report of an in-flight CAPS activation where the parachute failed to successfully deploy. We are issuing this AD to correct pick-up collar support fasteners of the CAPS, which could result in the premature separation of the collar. This condition, if not corrected,

could result in the parachute failing to successfully deploy (CAPS failure).

DATES: This AD becomes effective on August 16, 2007.

On August 16, 2007, the Director of the Federal Register approved the incorporation by reference of certain publications listed in this AD.

ADDRESSES: For service information identified in this AD, contact Cirrus Design Corporation, 4515 Taylor Circle, Duluth, Minnesota 55811; telephone: (218) 727-2737; Internet address: <http://www.cirrusdesign.com>.

To view the AD docket, go to U.S. Department of Transportation, Docket Operations, M-30, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue, SE., Washington, DC 20590, or on the Internet at <http://dms.dot.gov>. The docket number is FAA-2007-27976; Directorate Identifier 2007-CE-042-AD.

FOR FURTHER INFORMATION CONTACT: Wess Rouse, Aerospace Engineer, 2300 East Devon Avenue, Room 107, Des Plaines, Illinois 60018; telephone: (847) 294-8113; fax: (847) 297-7834.

SUPPLEMENTARY INFORMATION:

Discussion

On May 11, 2007, we issued a proposal to amend part 39 of the Federal Aviation Regulations (14 CFR part 39) to include an AD that would apply to certain CDC Models SR20 and SR22 airplanes. This proposal was published

in the **Federal Register** as a notice of proposed rulemaking (NPRM) on May 17, 2007 (72 FR 27766). The NPRM proposed to require you to replace the pick-up collar support and nylon screws, of the CAPS, with a new design pick-up collar support and custom tension screws.

Comments

We provided the public the opportunity to participate in developing this AD. We received no comments on the proposal or on the determination of the cost to the public.

Conclusion

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

- Are consistent with the intent that was proposed in the NPRM for correcting the unsafe condition; and
- Do not add any additional burden upon the public than was already proposed in the NPRM.

Costs of Compliance

We estimate that this AD affects 2,677 airplanes in the U.S. registry.

We estimate the following costs to do the replacement of the pick-up collar support of the CAPS:

Labor cost	Parts cost	Total cost per airplane	Total cost on U.S. operators
2 work-hours × \$80 per hour = \$160	\$17	\$177	\$473,829

Note: CDC will provide warranty credit to the extent noted in Cirrus Alert Service Bulletin No. SB A2X-95-10 R2, Issued April 2, 2007, Revised: April 24, 2007.

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 AD.

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 the DOT Regulatory Policies and Procedures (44 FR 11034, February 26, 1979); and
3. 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.

We prepared a summary of the costs to comply with this AD (and other information as included in the Regulatory Evaluation) and placed it in the AD Docket. You may get a copy of this summary by sending a request to us at the address listed under **ADDRESSES**. Include "Docket No. FAA-2007-27976; Directorate Identifier 2007-CE-042-AD" in your request.

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 Federal Aviation Administration amends part 39 of the Federal Aviation Regulations (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. FAA amends § 39.13 by adding the following new AD:

2007-14-03 Cirrus Design Corporation:

Amendment 39-15125; Docket No. FAA-2007-27976; Directorate Identifier 2007-CE-042-AD.

Effective Date

(a) This AD becomes effective on August 16, 2007.

Affected ADs

(b) None.

Applicability

(c) This AD applies to Model SR20 airplanes, serial numbers (SN) 1005 through 1798, and Model SR22 airplanes, SN 0002 through 2437, that:

- (1) Are certificated in any category; and
- (2) Have not incorporated the actions in their entirety of Cirrus Alert Service Bulletin No. SB A2X-95-10 R1, Issued April 2, 2007, Revised: April 10, 2007.

Unsafe Condition

(d) This AD results from a Cirrus Design Corporation (CDC) report of an in-flight Cirrus Airplane Parachute System (CAPS) activation where the parachute failed to successfully deploy. We are issuing this AD to correct pick-up collar support fasteners of the CAPS, which could result in the premature separation of the collar. This condition, if not corrected, could result in the parachute failing to successfully deploy (CAPS failure).

Compliance

(e) To address this problem, you must do the following, unless already done:

Actions	Compliance	Procedures
Replace the pick-up collar support of the CAPS with the new design pick-up collar support and the two nylon collar support screws with new custom aluminum tension screws. One of the following must do the replacement: <ul style="list-style-type: none"> (1) A CDC trained and authorized parachute system technician who also holds an Airframe and Powerplant (A&P) mechanic certificate; or (2) A CDC trained and authorized parachute system technician who is supervised by an A&P mechanic. 	Within the next 25 hours time-in-service (TIS) after August 16, 2007 (the effective date of this AD) or within 60 days after August 16, 2007 (the effective date of this AD), whichever occurs first.	Follow Cirrus Alert Service Bulletin No. SB A2X-95-10 R2, Issued April 2, 2007, Revised: April 24, 2007.

Alternative Methods of Compliance (AMOCs)

(f) 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. Send information to ATTN: Wess Rouse, Aerospace Engineer, FAA, 2300 East Devon Avenue, Room 107, Des Plaines, Illinois 60018; telephone: (847) 294-8113; fax: (847) 297-7834. 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.

Material Incorporated by Reference

(g) You must use Cirrus Alert Service Bulletin No. SB A2X-95-10 R2, Issued April 2, 2007, Revised: April 24, 2007, or Cirrus Alert Service Bulletin No. SB A2X-95-10 R1, Issued April 2, 2007, Revised: April 10, 2007, 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 this service information under 5 U.S.C. 552(a) and 1 CFR part 51.

(2) For service information identified in this AD, contact Cirrus Design Corporation, 4515 Taylor Circle, Duluth, Minnesota 55811; telephone: (218) 727-2737; Internet address: www.cirrusdesign.com.

(3) You may review copies at the FAA, Central Region, Office of the Regional Counsel, 901 Locust, Kansas City, Missouri 64106; or 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.

Issued in Kansas City, Missouri, on June 29, 2007.

Kim Smith,

Manager, Small Airplane Directorate, Aircraft Certification Service.

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DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2007-27680 Directorate Identifier 2007-CE-026-AD; Amendment 39-15128; AD 2007-14-06]

RIN 2120-AA64

Airworthiness Directives; AEROTECHNIC Vertiebs-u. Service GmbH Honeywell CAS67A ACAS II Systems Appliances

AGENCY: Federal Aviation Administration (FAA), Department of Transportation (DOT).

ACTION: Final rule.

SUMMARY: We are adopting a new airworthiness directive (AD) for the products listed above. This AD results from mandatory continuing airworthiness information (MCAI) issued by an aviation authority of

another country to identify and correct an unsafe condition on an aviation product. The MCAI describes the unsafe condition as:

It was detected by the STC holder that in earlier installations of the ACASII system there were no isolation diodes installed in the Heading and Attitude Valid lines. The absence of an isolation diode in the valid lines can prevent the valid flag to come up even if a gyro fault exists. The problem has only been detected for Heading Valid lines but could equally affect the Attitude Valid lines.

With installation of the ACASII, the heading and attitude valid lines have to be connected to the TPU67A. On valid state, the signals are +28VDC. On invalid, the signals are open. This condition of direct connection (without an isolation diode installed) of the valid lines to the TPU67A, if not corrected, could cause the TPU67A to feed current into the open stated valid lines. This prevents the flag to appear even if the gyro is invalid, providing the flight crew with erroneous navigation information.

We are issuing this AD to require actions to correct the unsafe condition on these products.

DATES: This AD becomes effective August 16, 2007.

On August 16, 2007, the Director of the Federal Register approved the incorporation by reference of certain publications listed in this AD.

ADDRESSES: You may examine the AD docket on the Internet at <http://dms.dot.gov> or in person at Document Management Facility, U.S. Department