

DEPARTMENT OF TRANSPORTATION**Federal Aviation Administration****14 CFR Part 39**

[Docket No. 2001-CE-17-AD]

RIN 2120-AA64

Airworthiness Directives; Fairchild Aircraft, Inc. SA226 Series Airplanes**AGENCY:** Federal Aviation Administration, DOT.**ACTION:** Notice of proposed rulemaking (NPRM).

SUMMARY: This document proposes to adopt a new airworthiness directive (AD) that would apply to certain Fairchild Aircraft, Inc. (Fairchild) SA226 series airplanes equipped with Hydromotive Model V1-15-1000 brake master cylinders. The proposed AD would require you to replace these brake master cylinders with new or overhauled units of the same design. The proposed AD is the result of reports of dragging brakes during taxi operations. The actions specified by the proposed AD are intended to correct and prevent future malfunctioning brake master cylinders. Malfunctioning brake master cylinders could cause dragging brakes, which can result in overheated brakes and a wheelwell fire if the dragging takes place during takeoff and the gear is later retracted.

DATES: The Federal Aviation Administration (FAA) must receive any comments on this rule by October 29, 2001.

ADDRESSES: Send three copies of comments to FAA, Central Region, Office of the Regional Counsel, Attention: Rules Docket No. 2001-CE-17-AD, 901 Locust, Room 506, Kansas City, Missouri 64106. Comments may be inspected at this location between 8 a.m. and 4 p.m., Monday through Friday, except holidays.

Service information that applies to the proposed AD may be obtained from Fairchild Aircraft, Inc., P.O. Box 790490, San Antonio, Texas 78279-0490; telephone: (210) 824-9421; facsimile: (210) 820-8609. You may read this information at the Rules Docket at the address above.

FOR FURTHER INFORMATION CONTACT: Werner Koch, Aerospace Engineer, FAA, Airplane Certification Office, 2601 Meacham Boulevard, Fort Worth, Texas 76193-0150; telephone: (817) 222-5133; facsimile: (817) 222-5960.

SUPPLEMENTARY INFORMATION:**Comments Invited**

How do I Comment on the Proposed AD?

We invite your comments on the proposed rule. You may send whatever written data, views, or arguments you choose. You need to include the rule's docket number and send your comments in triplicate to the address named under the caption **ADDRESSES**. We will consider all comments received by the closing date named above, before taking action on the proposed rule. We may change the proposals contained in this notice because of the comments received.

Are There any Specific Portions of the Proposed AD I Should Pay Attention to?

The FAA specifically invites comments on the overall regulatory, economic, environmental, and energy aspects of the proposed rule that might call for a need to change the proposed rule. You may read all comments we receive in the Rules Docket. We will file a report in the Rules Docket that summarizes each FAA contact with the public that concerns the substantive parts of this proposal.

The FAA is reexamining the writing style we currently use in regulatory documents, in response to the Presidential memorandum of June 1, 1998. That memorandum requires federal agencies to communicate more clearly with the public. We want to read your comments on the ease of understanding this document, and any other suggestions you might have to improve the clarity of FAA communications that affect you. You can get more information about the Presidential memorandum and the plain language initiative at <http://www.faa.gov/language/>.

How can I be Sure FAA Receives my Comment?

If you want us to acknowledge the receipt of your comments, you must include a self-addressed, stamped postcard. On the postcard, write "Comments to Docket No. 2001-CE-17-AD." We will date stamp and mail the postcard back to you.

Discussion

What Events Have Caused this AD?

The FAA received several reports of dragging brakes on Fairchild SA226 series airplanes when the brake pedals

were operated during taxi operations. After troubleshooting by maintenance personnel, the problem was traced to the master brake cylinder. Disassembly of the malfunctioning master cylinders revealed broken check valve spring washers that, together with the action of the shuttle valve, prevented the release of brake pressure when the brake pedal was released after a brake application. Based on observed failures, FAA has determined that the brake master cylinders should be replaced at intervals of 15,000 hours time-in-service.

What are the Consequences if the Condition is not Corrected?

This condition, if not detected or corrected, could cause dragging brakes, which can result in overheated brakes and cause an in-flight wheelwell fire if the dragging takes place during takeoff and the gear is later retracted.

The FAA's Determination and an Explanation of the Provisions of the Proposed AD What has FAA decided?

After examining the circumstances and reviewing all available information related to the incidents described above, we have determined that:

—the unsafe condition referenced in this document exists or could develop on other Fairchild SA226 Series airplanes of the same type design equipped with Hydromotive Model V1-15-1000 brake master cylinders; and

—AD action should be taken in order to correct this unsafe condition.

What Would the Proposed AD Require?

This proposed AD would require you to replace or overhaul the brake master cylinders. Procedures are in the applicable Fairchild maintenance manual.

Cost Impact

How Many Airplanes Would the Proposed AD Impact?

We estimate that the proposed AD affects 125 airplanes in the U.S. registry.

What Would Be the Cost Impact of the Proposed AD on Owners/Operators of the Affected Airplanes?

We estimate the following costs to do any necessary replacements:

Labor cost	New or overhauled parts cost (4 parts for each aircraft required)	Total cost per airplane	Total cost on U.S. operators
8 hours × \$60 for each hour=\$480	4 parts × \$200=\$800.00	\$1,280,	125 airplanes × \$1,280=\$160,000.

Regulatory Impact

Would This Proposed AD Impact Various Entities?

The regulations proposed would 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. Therefore, it is determined that this proposed rule would not have federalism implications under Executive Order 13132.

Would This Proposed AD Involve a Significant Rule or Regulatory Action?

For the reasons discussed above, I certify that this action (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); and (3) if promulgated, 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. A copy of the draft regulatory evaluation prepared for this action has been placed in the Rules Docket. You may request a copy of it by contacting the Rules Docket at the location provided under the caption **ADDRESSES**.

List of Subjects in 14 CFR Part 39

Air transportation, Aircraft, Aviation safety, Safety.

The Proposed Amendment

Accordingly, under the authority delegated to me by the Administrator, the Federal Aviation Administration proposes to amend 14 CFR part 39 of the Federal Aviation Regulations 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 a new airworthiness directive (AD) to read as follows:

Fairchild Aircraft, Inc.: Docket No. 2001-CE-17-AD

(a) *What airplanes are affected by this AD?*

This AD affects all Fairchild SA226 Series airplanes that are certificated in any category equipped with Hydromotive Model V1-15-1000 brake master cylinders: SA226-AT, SA226-T, SA226-T(B), and SA226-TC.

(b) *Who must comply with this AD?*

Anyone who wishes to operate any of the above airplanes must comply with this AD.

(c) *What problem does this AD address?*

The actions specified by this AD are intended to correct and prevent future malfunctioning brake master cylinders. Malfunctioning brake master cylinders could cause dragging brakes, which can result in overheated brakes and a wheelwell fire if the dragging takes place during takeoff and the gear is later retracted.

(d) *What actions must I accomplish to address this problem?* To address this problem, you must do the following, unless already done:

Actions	Compliance	Procedures
Replace the Hydromotive, Inc. Model V1-15-1000 brake master cylinders with new or overhauled Model V1-15-1000 brake master cylinders or FAA-approved equivalent part numbers.	Upon the accumulation of 200 hours time in service (TIS) after the effective date of this AD or 15,000 hours total TIS on the affected brake master cylinders whichever occurs later. Later replacement intervals shall be at 15,000 hours TIS.	Do this action following the procedures in the applicable maintenance or service manual.

(e) *Can I comply with this AD in any other way?* You may use an alternative method of compliance or adjust the compliance time if:

(1) Your alternative method of compliance provides an equivalent level of safety; and

(2) The Manager, Fort Worth Airplane Certification Office (ACO), approves your alternative. Send your request through an FAA Principal Maintenance Inspector, who may add comments and then send it to the Manager, Fort Worth ACO.

Note: This AD applies to each airplane identified in paragraph (a) of this AD, regardless of whether it has been modified, altered, or repaired in the area subject to the requirements of this AD. For airplanes that have been modified, altered, or repaired so that the performance of the requirements of this AD is affected, the owner/operator must request approval for an alternative method of compliance in accordance with paragraph (e) of this AD. The request should include an assessment of the effect of the modification, alteration, or repair on the unsafe condition addressed by this AD; and, if you have not eliminated the unsafe condition, specific actions you propose to address it.

(f) *Where can I get information about any already-approved alternative methods of compliance?* Contact Werner Koch, Aerospace Engineer, FAA, Airplane Certification Office, 2601 Meacham Boulevard, Fort Worth, Texas 76193-0150; telephone: (817) 222-5133; facsimile: (817) 222-5960.

(g) *What if I need to fly the airplane to another location to comply with this AD?* The FAA can issue a special flight permit under sections 21.197 and 21.199 of the Federal Aviation Regulations (14 CFR 21.197 and 21.199) to operate your airplane to a location where you can accomplish the requirements of this AD.

(h) *How do I get copies of the documents referenced in this AD?* You may obtain copies of the documents referenced in this AD from Fairchild Aircraft, Inc., P.O. Box 790490, San Antonio, Texas 78279-0490. You may read these documents at FAA, Central Region, Office of the Regional Counsel, 901 Locust, Room 506, Kansas City, Missouri 64106.

Issued in Kansas City, Missouri, on August 13, 2001.

Michael Gallagher,
Manager, Small Airplane Directorate, Aircraft Certification Service.

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DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. 2001-CE-19-AD]

RIN 2120-AA64

Airworthiness Directives; Dornier Luftfahrt GmbH Models 228-100, 228-101, 228-200, 228-201, 228-202, and 228-212 Airplanes

AGENCY: Federal Aviation Administration, DOT.