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No. CF-98-39R1

AIRWORTHINESS DIRECTIVE

The following airworthiness directive (AD) may be applicable to an aircraft which our records indicate is registered in your name. ADs are issued pursuant to Canadian Aviation Regulation (CAR) 593. Pursuant to CAR 605.84 and the further details of CAR Standard 625, Appendix H, the continuing airworthiness of a Canadian registered aircraft is contingent upon compliance with all applicable ADs. Failure to comply with the requirements of an AD may invalidate the flight authorization of the aircraft. Alternative means of compliance shall be applied for in accordance with CAR 605.84 and the above- referenced Standard.

This AD has been issued by the Continuing Airworthiness Division (AARDG), Aircraft Certification Branch, Transport Canada, Ottawa, telephone (613) 952-4357.

CF-98-39R1 BOMBARDIER

Applies to Bombardier Inc. (formerly de Havilland) DHC-8 aircraft, Models 102, 103, 106, 201, 202, 301, 311, 314 and 315, serial numbers 3 through 520, excluding serial numbers 413, 450, 462, 463, 464, 465, 467, 468, 469, 473, 478, 479, 482, 487, 489, 491, 493, 495, 499 and 500.

Compliance is required as indicated, unless already accomplished.

The rudder feel assembly incorporates two dual rate springs. However, a number of single rate springs were inadvertently introduced into some aircraft in production. Both the single and dual rate springs have the same part number but differ in the breakout forces: single rate springs require heavier-than-normal rudder pedal forces. A mix of single and dual rate springs produces an asymmetric rudder force condition which is particularly noticeable to the pilot when small rudder control inputs are required in gusty crosswind or single engine failure conditions. It is therefore necessary to restrict aircraft equipped with single rate springs from operating on narrow runways less than 18 meters wide.

To detect and correct erroneous spring installations, accomplish the following:

A. For all aircraft operating from narrow runways less than 18 meters wide:

1. Within 100 hours flight time after 4 December 1998, inspect both rudder feel springs in accordance with Part III, Accomplishment Instructions, of Bombardier Inc. Alert Service Bulletin (ASB) A8-27-82 dated 10 July 1998, or later revisions approved by the Director, Aircraft Certification, Transport Canada.

(a) If both springs are found to be of the conforming dual rate configuration, no further action is required.

(b) If either or both rudder feel springs are found to be of a non-conforming single rate configuration, operation from narrow runways less than 18 meters wide is not permitted.

2. At the next "C" check or within 36 months or prior to operating from narrow runways less than 18 meters wide, whichever occurs first after the inspection in accordance with paragraph 1 above, replace both rudder feel springs. Part III, Accomplishment Instructions, of the above noted ASB provides approved instructions for incorporating this change.

B. For aircraft **not** operating from narrow runways less than 18 meters wide:

At the next "C" check or within 36 months after 4 December 1998, whichever occurs first after this date, inspect both rudder feel springs. If either or both springs are of a single rate configuration, both springs must be replaced. Part III, Accomplishment Instructions, of the Bombardier Inc. ASB A8-27-82, dated 10 July 1998, or later revisions approved by the Director, Aircraft Certification, Transport Canada, provides approved instructions for incorporating this change.

This revision supersedes Airworthiness Directive CF-98-39, dated 23 October 1998.

This directive becomes effective 15 February 1999.

This revision has been issued to clarify the interpretation of "narrow runways" in the context of this directive.

Pursuant to CAR 202.51 the registered owner of a Canadian aircraft shall, within seven days, notify the Minister in writing of any change of his or her name or address. To request a change of address, contact the Civil Aviation Communications Centre (AARC) at Place de Ville, Ottawa, Ontario K1A 0N8, or 1-800-305-2059, or <http://www.tc.gc.ca/civilaviation/communications/centre/address.asp>.

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