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| No.        | CF-2009-46       | 1/2 |
| Issue Date | 14 December 2009 |     |

# 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) 521 Division X**. 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), National Aircraft Certification Branch, Transport Canada, Ottawa, telephone 613 952-4357.

**Number:** CF- 2009-46

**Subject:** Landing Gear Alternate Extension Access Panel – Potential Failure to Open

**Effective:** 7 January 2010

**Applicability:** Bombardier Inc. Model DHC-8 Aeroplanes, as follows:

DHC-8 Series 100, 200, and 300, with serial numbers 003 through 658

DHC-8 Series 400, with serial numbers 4001, 4003, 4004, 4006, 4008 through 4187.

**Compliance:** Within 6 000 hours airtime or three years, whichever comes first, from the effective date of this Directive, unless already accomplished.

**Note:** The compliance times in this Directive differ from the recommended compliance times mentioned in the Bombardier Service Bulletins (SB).

**Background:** The landing gear alternate extension system in the cockpit is accessible through an access panel located on the cockpit floor. There have been reports of failure of the access panel latch assembly as a consequence of repeated closure of the access panel involving the use of excessive force. Failure of the latch assembly can result in the access panel being jammed in the closed position, and require mechanical prying to open.

An undetected or uncorrected latch failure condition in the access panel can prevent immediate access to the landing gear alternate extension system by the flight crew during an emergency. This Directive requires the replacement of the existing latch assembly with a stronger modified latch assembly.

**Corrective Actions:** Within the compliance times specified in this Directive, replace the latch assembly of the access panel for the landing gear alternate extension system as follows:

1. For Model DHC-8 Series 100, 200, and 300 aeroplanes, in accordance with Bombardier Service Bulletin 8-32-166 Revision A, dated January 29, 2009, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada Civil Aviation. Compliance with the Initial Issue of this Service Bulletin dated April 14, 2008 fulfills the requirement of this Directive and no additional action is required.

2. For Model DHC-8 Series 400 aeroplanes, in accordance with Bombardier Service Bulletin 84-32-57 Revision A, dated June 15, 2009, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada Civil Aviation. Compliance with the Initial Issue of this Service Bulletin dated April 30, 2008 fulfills the requirement of this Directive and no additional action is required.

**Authorization:** For Minister of Transport, Infrastructure and Communities

ORIGINAL SIGNED BY

Derek Ferguson  
Chief, Continuing Airworthiness

**Contact:** Mr. Eric S. Lucas, Continuing Airworthiness, Ottawa, telephone 613-952-4357, facsimile 613-996-9178 or e-mail [CAW\\_WEB\\_Feedback@tc.gc.ca](mailto:CAW_WEB_Feedback@tc.gc.ca) or any Transport Canada Centre.