



No.	1/1
CF-2008-05R1	
Issue Date	
27 February 2008	

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.

Number: CF-2008-05R1

Subject: Elevator Centering Torsion Spring Failure

Effective: 31 January 2008

Revision: Supersede Airworthiness Directive CF-2008-05 issued on 10 January 2008.

Applicability: Bombardier Inc. DHC-8 Aircraft, Models 400, 401 and 402, Serial Numbers 4001, 4003, 4004, 4006 through 4081.

Compliance: When indicated, unless already accomplished.

Background: There was one reported failure of the elevator centering torsion spring. Investigation revealed that the tangs on the torsion spring had been bent due to difficulty encountered during installation of the elevator centering torsion spring on the horizontal stabilizer torque tube. The bending of the tangs on the torsion spring would degrade its durability and could lead to premature failure of the elevator centering torsion spring. A control rod disconnect between the elevator aft quadrant and the elevator Power Control Unit input torque tube, in combination with the loss or reduction in elevator centering capability, could result in a significant reduction in aircraft pitch control.

This revision only amends the aircraft applicability.

Corrective Actions: Within 5,000 hours airtime after the effective date of this directive but not to exceed 22,000 hours airtime since new, replace all elevator centering torsion springs with the new ones by incorporating Modsum 4-113482. Bombardier Service Bulletin (SB) 84-27-31, dated 27 April 2007 or later revisions approved by Chief, Continuing Airworthiness, Transport Canada, provides approved instructions for incorporating Modsum 4-113482.

Authorization: For Minister of Transport, Infrastructure and Communities

P. Tang
Acting Chief, Continuing Airworthiness

Contact: Mr. Anthony Wan, Continuing Airworthiness, Ottawa, telephone 613-952-4410, facsimile 613-996-9178 or e-mail wana@tc.gc.ca or any Transport Canada Centre.

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 www.tc.gc.ca/civilaviation/communications/centre/address.asp

