



No.	CF-2011-32	1/2
Issue Date	15 August 2011	

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-2011-32

Subject: Rudder Control - Excessive Wear on the Brake Pedal Bellcrank

Effective: 29 August 2011

Applicability: Bombardier Inc. DHC-8 Aeroplanes:

Models 102, 103, 106, 201, 202, 301, 311, 314 and 315, Serial Numbers 003 through 672

Models 400, 401 and 402, Serial Numbers 4003 through 4372

Compliance: As indicated below, unless already accomplished.

Background: There have been several in-service reports of excessive wear found in the bolt hole where the rod assembly, Part Numbers (P/N) 82710795-001 or 82710024-003, is attached to the rudder/brake pedal bellcrank. An investigation revealed that the wear was attributed to prolonged fretting.

Failure of the bellcrank on one side could lead to asymmetric braking and may lead to runway excursion.

This directive mandates the re-work or replacement of each bellcrank, P/N 82710022-001/-002, 82710029-001/-002, 82710813-001/-002 and 82710814-001/-002, found with a worn bolt hole.

Corrective Actions: **Part I - Applicable to Aeroplane Models 102, 103, 106, 201, 202, 301, 311, 314 and 315**

Within 6000 hours air time or 2 years after the effective date of this directive, whichever comes first, incorporate Bombardier Modsum 8Q113007. Approved instructions for incorporating Modsum 8Q113007 are provided in Bombardier Service Bulletin (SB) 8-27-111, Initial Issue, dated 15 June 2011, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Part II – Applicable to Aeroplane Models 400, 401 and 402

Incorporate Bombardier Modsum 4-110372 in accordance with the following schedule, as of the effective date of this directive:

1. For aeroplanes that have accumulated 15 000 hours or less of total air time: within 6000 hours air time after the effective date of this directive, but not to exceed 15 600 hours of total air time;

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



2. For aeroplanes that have accumulated more than 15 000 hours of total air time: within 600 hours air time after the effective date of this directive.

Approved instructions for incorporating Modsum 4-110372 are provided in Bombardier SB 84-27-55, Initial Issue, dated 15 June 2011, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Authorization: For the Minister of Transport, Infrastructure and Communities

ORIGINAL SIGNED BY

Derek Ferguson
Chief, Continuing Airworthiness

Contact: Mr. Robert Farinas, Continuing Airworthiness, Ottawa, telephone 613-952-4357, facsimile 613-996-9178 or e-mail CAWWEBFeedback@tc.gc.ca or any Transport Canada Centre.