



No.	CF-2009-11	1/2
Issue Date 13 March 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) 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), National Aircraft Certification Branch, Transport Canada, Ottawa, telephone 613 952-4357.

URGENT URGENT URGENT URGENT URGENT URGENT URGENT URGENT URGENT

TRANSPORT CANADA EMERGENCY AIRWORTHINESS DIRECTIVE

PLEASE FORWARD IMMEDIATELY TO THE PERSON RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF YOUR AIRCRAFT

- Number:** CF-2009-11
- Subject:** Failure of Main Landing Gear Stabilizer Braces
- Effective:** Upon receipt.
- Applicability:** Bombardier Inc. DHC-8 aircraft, Models 400, 401 and 402, serial numbers 4001, 4003 and subsequent.
- Compliance:** As indicated below.
- Background:** Several reports have been received on failures of the aft hinge of the main landing gear (MLG) forward stabilizer brace. Laboratory examinations have found that the fatigue cracks were initiated from the dowel pin hole at the aft hinge lug of the MLG forward stabilizer brace where the stop bracket is attached. Failure of the stabilizer brace could result in the collapse of the main landing gear.
- Corrective Actions:**
- A. Inspection of the Main Landing Gear Forward Stabilizer Brace Part Number (P/N) 46401-7:**
1. Perform a non-destructive inspection and all required action(s) on the main landing gear forward stabilizer brace assemblies P/N 46401-7 in accordance with Bombardier Repair Drawing (RD) 8/4-32-099, Issue 1, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada, with the following schedule:
 - 1.1 For aircraft with main landing gear stabilizer braces that have accumulated 12,000 or more landings, within 50 landings after the effective date of this directive;
 - 1.2 For aircraft with main landing gear stabilizer braces that have accumulated between 9,000 and 11,999 landings, within 500 landings after the effective date of this directive, but not more than 12,050 accumulated landings.
 - 1.3 For aircraft with main landing gear stabilizer braces that have accumulated between 4500 and 8,999 landings, within 1,500 landings after the effective date of this directive, but not more than 9,500 accumulated landings.
 - 1.4 For aircraft with main landing gear stabilizer braces that have accumulated less than 4500 landings, prior to exceeding 6,000 accumulated landings.

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. Subsequently, at intervals not to exceed 2,000 landings, repeat the non-destructive inspection and all required action(s) in accordance with RD 8/4-32-099, Issue 1, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada, and
3. For aircraft with main landing gear stabilizer braces that have accumulated more than 6000 cycles perform a detailed visual inspection in accordance with All Operators Message (AOM) No. 338 at intervals not to exceed 600 hours air time and if any further action is required refer to RD 8/4-32-099.

B. Reporting Requirement:

Within 48 hours after the inspection in accordance with Part A of this directive, report all findings to Bombardier Technical Help Desk using the tables provided in RD 8/4-32-099, Issue 1, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada,.

Authorization: For Minister of Transport, Infrastructure and Communities

Derek Ferguson
Acting Chief, Continuing Airworthiness

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