



No.	CF-2012-28R1	1/2
Issue Date	26 November 2012	

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-2012-28R1
- Subject:** Main Landing Gear Door Actuator Scraper Incorrect Installation
- Effective:** 12 December 2012
- Revision:** Supersedes Airworthiness Directive CF-2012-28, dated 13 October 2012
- Applicability:** Bombardier Inc. DHC-8 aeroplane models 400, 401 and 402, serial numbers (S/N) 4001 and subsequent, equipped with Main Landing Gear (MLG) door actuators with part number (P/N) 46830-7 and serial numbers included in Section 1.A, Effectivity, of Bombardier Service Bulletin (SB) 84-32-108, Revision A, dated 01 October 2012.
- Compliance:** As indicated below, unless already accomplished.
- Background:** It was discovered that a batch of MLG door actuators, P/N 46830-7, may be assembled with the scraper installed backwards. This condition, if not corrected, could result in increased actuator friction, which could hinder operation of the MLG alternate extension system (AES). In the case of a failure of the primary MLG extension system, the failure of the MLG AES on one side will lead to an unsafe asymmetrical landing configuration.
- This AD mandates the repetitive functional check of the AES until replacement of the affected MLG door actuators.
- This revision is issued to correct the applicability section of the original issue of this AD.
- Corrective Actions:** **Part I - Repetitive Inspection**
- Perform a functional check of the MLG AES in accordance with Part A of the Accomplishment Instructions of Bombardier SB 84-32-108, Revision A, dated 01 October 2012, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada, using the following schedule:
- A. Initially, as of the effective date of this AD:
1. For MLG door actuators that have accumulated more than 950 hours air time, within 50 hours air time.
 2. For MLG door actuators that have accumulated 950 hours air time or less, before reaching 1000 hours air time.
- B. Subsequently, at intervals not to exceed 50 hours 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

Part II - Terminating Action

Within 2000 hours air time or 12 months from the effective date of this AD, or before the MLG door actuator have accumulated 3000 hours air time, whichever occurs first, replace all affected MLG door actuators P/N 46830-7 with MLG door actuators reworked in accordance with Part B of the Accomplishment Instructions of Bombardier SB 84-32-108, Revision A, dated 01 October 2012, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada, or with MLG door actuators P/N 46830-7 with serial number not included in Section 1.A, Effectivity of the above-mentioned SB.

For MLG door actuator P/N 46830-7 identified with Mod Status "32-106" on the identification plate, the requirements of Part II of this AD is met.

Rework in accordance with Bombardier SB 84-32-108, Initial Issue, dated 06 September 2012, also meets the requirements of Part II of this AD.

Part III - Spare Affected

As of the effective date of this AD, it is prohibited for anyone to install MLG door actuator P/N 46830-7 with S/N included in Section 1.A, Effectivity, of Bombardier SB 84-32-108, Revision A, dated 01 October 2012, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada, unless it is identified with Mod Status "32-106" on the identification plate.

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

ORIGINAL SIGNED BY

Derek Ferguson
Chief, Continuing Airworthiness

Contact: Helen Tsai, Continuing Airworthiness, Ottawa, telephone 613-952-4357, facsimile 613-996-9178 or e-mail ADs@tc.gc.ca or any Transport Canada Centre.