



AD Number: **CF-2014-42**  
Issue Date: **28 November 2014**

# 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-2014-42 **Effective Date:** 12 December 2014

**ATA:** 32 **Type Certificate:** A-131

**Subject:** Landing Gear - Main Landing Gear Door Forward Member Cracking

**Applicability:** Bombardier Inc. model CL-600-2C10 aeroplanes, serial number 10002 and subsequent, equipped with inboard Main Landing Gear (MLG) door part numbers included in Section 1.A, Effectivity, of Bombardier Service Bulletin (SB) 670BA-32-042, Revision A, dated 2 July 2014.

**Compliance:** As indicated below, unless already accomplished.

**Background:** Cases of inboard MLG doors with cracked door forward members were found. A cracked inboard MLG door forward member could result in door departure from the aeroplane. Loss of an MLG door during flight could result in damage to the aeroplane and injury to persons on the ground.

This AD mandates the repetitive inspection and replacement of the inboard MLG doors.

## Corrective Actions:

### Part I – Repetitive Inspection

Perform a detailed visual inspection of the inboard MLG doors, and rectify as required, in accordance with the Accomplishment Instructions of Bombardier SB 670BA-32-042, Revision A, dated 2 July 2014, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada, using the following schedule:

- A. Initially, within 660 hours air time or one year, whichever occurs first, from the effective date of this AD; and
- B. Subsequently, at intervals not to exceed 660 hours air time or one year, whichever occurs first.

Part I of this AD is not required if the MLG door has been removed. This alleviation is applicable only to the removed MLG door. The repetitive inspection in accordance with Part I of this AD resumes when the MLG door is reinstalled.

If the compliance time of Part II of this AD is reached at the time of the MLG door reinstallation, complete Part II of this AD.

### Part II – Terminating Action

Within 6600 hours air time or 3 years, whichever occurs first, from the effective date of this AD, replace the inboard MLG doors in accordance with the Accomplishment Instructions of Bombardier SB 670BA-32-043 Revision A, dated 13 November 2014, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

If the MLG door has been removed at the compliance time of Part II of this AD, incorporation of the above-mentioned replacement can be delayed until the MLG door is reinstalled. This alleviation is applicable only to the removed MLG door.

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.

Part II of this AD constitutes terminating action to this AD. Part I of this AD is no longer required after accomplishment of Part II of this AD.

Note: Incorporation of Bombardier SB 670BA-32-040 is still required to meet the requirements of Part IV of AD CF-2010-36R1.

### Part III – Alternative Means of Compliance

The following are acceptable options which meet the requirements of Part II of this AD:

- A. Incorporation of Bombardier SB 670BA-32-043, Initial Issue, dated 2 July 2014, in conjunction with ModSum IS670528200033;
- B. Installation of inboard MLG door assembly with part numbers listed in the "Post-SB Part Number" column of Section M, Relationship Chart, of Bombardier SB 670BA-32-043, Initial Issue, dated 2 July 2014;
- C. Incorporation of Part C and Part D of the Accomplishment Instructions of Bombardier SB 670BA-32-040, Revision E, dated 13 November 2014, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada; or
- D. Incorporation of Part C and Part D of the Accomplishment Instructions of Bombardier SB 670BA-32-040, Revision D, dated 2 July 2014, in conjunction with ModSum IS670528200033.

### Part IV – Spares

Upon completion of Part II or Part III of this AD, it is prohibited for anyone to install inboard MLG door assemblies with part numbers listed in the "Pre-SB Part Number" column of Section M, Relationship Chart, of Bombardier SB 670BA-32-043, Initial Issue, dated 2 July 2014.

**Authorization:** For the Minister of Transport,

*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 [AD-CN@tc.gc.ca](mailto:AD-CN@tc.gc.ca) or any Transport Canada Centre.