



No.	CF-2010-36R1	1/3
Issue Date	18 July 2013	

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-2010-36R1

Subject: Main Landing Gear Door – Fairing Seal Interference

Effective: 31 July 2013

Revision: Supersedes Airworthiness Directive CF-2010-36, issued 18 October 2010.

Applicability: Bombardier Inc.:

Model CL-600-2C10 aeroplanes, serial numbers 10002 through 10333,
Model CL-600-2D15 and CL-600-2D24 aeroplanes, serial number 15001 through 15284.

Compliance: As indicated below, unless already accomplished.

Background: Two cases of main landing gear (MLG) failure to fully extend have been reported. An MLG failing to extend may result in an unsafe asymmetric landing configuration.

Preliminary investigation has shown that interference between the MLG door and the MLG fairing seal prevented the MLG door from opening.

This AD mandates the inspection and rectification, as required, of the MLG fairing and seal, MLG door, and adjacent structures.

Data collected from the Original Issue of this AD shows potential deficiencies with the inspection. This AD is revised to update the applicability section and to introduce additional mitigating actions and the terminating action.

Corrective Actions: Part I - Inspections applicable to aeroplanes installed with MLG fairing seal part number (P/N) CC670-39244-1 or P/N CC670-39244-2

A. Initially, use the following schedule:

1. For aeroplane serial numbers 10002 to 10313; 15001 to 15238; and 15240 to 15255, within 50 flight cycles from the effective date of the original issue of this AD (18 October 2010).
2. For all other aeroplane serial numbers, within 600 hours air time from the effective date of the original issue of this AD (18 October 2010).

B. Perform a detailed inspection of the MLG fairing and seal, MLG door and adjacent structures in accordance with Part A of the Accomplishment Instructions of Bombardier Alert Service Bulletin (ASB) A670BA-32-030, Revision C, dated 13 March 2013, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

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

Canada

Inspections in accordance with previous revisions of Bombardier ASB A670BA-32-030 also meets the requirements of this paragraph.

1. If no damage is found, proceed to Part I, C of this AD.
2. If damage to the MLG fairing seal is found, complete either Part E or Part C of the Accomplishment Instructions of the above-mentioned ASB.

Completion in accordance with Part C of the Accomplishment Instructions of previous revisions of the above-mentioned ASB also meets the requirements of this paragraph.

3. If Part C of the Accomplishment Instructions of the above-mentioned ASB is used for compliance with Part I, B, 2 of this AD, Part D of the Accomplishment Instructions of the above-mentioned ASB must be completed if the MLG door is to be reinstalled.
 4. For all other damage or missing parts/fasteners found, contact Bombardier Regional Aircraft Customer Response Center for approved repair prior to further flight. The approved repair must specifically reference this AD.
 5. If Part E of the Accomplishment Instructions of the above-mentioned ASB is used for compliance with Part I, B, 2 of this AD, proceed to Part III of this AD for inspection instructions.
- C. Subsequently, at intervals not to exceed 200 hours air time from previous inspection, repeat the inspection and rectification detailed in Part I, B above.

Phase in for Part I, C of this AD: within 200 hours air time from the effective date of this AD or within 600 hours air time from previous inspection, whichever occurs first.

D. [Removed]

Part I, C of this AD is not required if the MLG door has been removed. The repetitive inspection in accordance with Part I, C of this AD resumes when Part D of the Accomplishment Instructions of the above-mentioned ASB is completed.

Part II - Replacement of MLG fairing seals P/N CC670-39244-1 and P/N CC670-39244-2 with MLG fairing seals P/N CC670-39244-5 and P/N CC670-39244-6

Within 2500 hours air time or 12 months, whichever occurs first, from the effective date of this AD, replace MLG fairing seals P/N CC670-39244-1 and P/N CC670-39244-2 with MLG fairing seals P/N CC670-39244-5 and P/N CC670-39244-6 in accordance with Part E of the Accomplishment Instructions of Bombardier ASB A670BA-32-030, Revision C, dated 12 March 2013, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Proceed to Part III of this AD for inspection instructions after completion of Part II of this AD.

If the MLG door has been removed at the compliance time of Part II of this AD, incorporation of the above-mentioned modification can be delayed until the MLG door is reinstalled.

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

Part III - Inspections applicable to aeroplanes installed with MLG fairing seal P/N CC670-39244-5 or P/N CC670-39244-6

A. Within 600 hours air time from installation of MLG fairing seals P/N CC670-39244-5 and P/N CC670-39244-6, perform a detailed inspection of the MLG fairing and seal, MLG door and adjacent structures in accordance with Part A of the Accomplishment Instructions of Bombardier ASB A670BA-32-030, Revision C, dated 12 March 2013, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

1. If no damage is found, proceed to Part III, B of this AD.
2. If damage to the MLG fairing seal is found, replace the damaged seal in accordance with Part F or Part G of the Accomplishment Instructions of the above-mentioned ASB as required, or complete Part C of the Accomplishment Instructions of the above-mentioned ASB.
3. If Part C of the Accomplishment Instructions of the above-mentioned ASB is used for compliance with Part III, A, 2 of this AD, Part D of the Accomplishment Instructions of the above-mentioned ASB must be completed if the MLG door is to be reinstalled.
4. For all other damage or missing parts/fasteners found, contact Bombardier Regional Aircraft Customer Response Center for approved repair prior to further flight. The approved repair must specifically reference this AD.

B. Subsequently, at intervals not to exceed 600 hours air time from previous inspection, repeat the inspection and rectification detailed in Part III, A of this AD.

Part III, B of this AD is not required if the MLG door has been removed. The repetitive inspection in accordance with Part III, B of this AD resumes when Part D of the Accomplishment Instructions of the above ASB is completed.

Part IV - Terminating Action

Within 6600 hours air time or 36 months, whichever occurs first, from the effective date of this AD, incorporate the modification "Increase the Clearances Between the MLG Fairing and the MLG Door" in accordance with Bombardier SB 670BA-32-040, Revision A, dated 25 February 2013, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

If the MLG door has been removed at the compliance time of Part IV of this AD, incorporation of the above-mentioned modification can be delayed until the MLG door is reinstalled.

Parts I, II and III of this AD are no longer required after the completion of Part IV of this AD.

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 AD-CN@tc.gc.ca or any Transport Canada Centre.