



No.	CF-2012-06	1/2
Issue Date 26 January 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-2012-06

Subject: Bleed Leak Detection System – Inability to Detect a Cracked/Ruptured Bleed-Air Duct

Effective: 9 February 2012

Applicability: Bombardier Inc Aeroplanes:

Model CL-600-2C10, serial Numbers 10003 through 10331,
Model CL-600-2D15 and CL-600-2D24, serial Numbers 15001 through 15279.

Compliance: As indicated below, unless already accomplished.

Background: There have been multiple events reported where a bleed air leak from the high pressure ducts was not immediately detected by the Bleed Leak Detection System (BLDS).

An investigation revealed that if a bleed air leak develops due to a cracked or ruptured duct, the duct shroud may not channel sufficient bleed air to the sensing loop elements to enable an automatic shutdown of the bleed air system. The inability to detect a bleed air leak could result in the rudder quadrant bracket, pressure floor, pressure floor beam, fuel vent boot or fuel tubes being exposed to high temperatures. This could potentially lead to the loss of rudder control, degrade the structural integrity of primary structure or fuel ignition.

This Airworthiness Directive (AD) mandates the installation of newly designed sensing elements in the main landing gear wheel well and the overwing area, protective blankets on the upper surface of the wing box and fuel tubes, as well as protective shields on the rudder quadrant support-beam in the aft equipment compartment.

Corrective Actions: Part I – Applicable to Aeroplane Model CL-600-2C10, serial numbers 10003 through 10326, Models CL-600-2D15 and CL-600-2D24, serial numbers 15001 through 15267:

Within 6600 hours air time or 24 months, whichever occurs first, from the effective date of this AD, install the protective shields on the rudder quadrant support-beam in the aft equipment compartment, in accordance with the Accomplishment Instructions in section 2 of the Bombardier Service Bulletin (SB) 670BA-36-014, Revision A, dated 11 October 2011, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Incorporation of the initial issue of SB 670BA-36-014, dated 7 April 2011, also meets the requirements of this AD.

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 – Applicable to Aeroplane Model CL-600-2C10, serial numbers 10003 through 10331, Models CL-600-2D15 and CL-600-2D24, serial numbers 15001 through 15279:

Within 6600 hours air time or 24 months, whichever occurs first, from the effective date of this AD, install the protective blankets on the upper surface of the wing box and fuel components, and also install new sensing elements in the main landing gear wheel well and the overwing area, in accordance with the Accomplishment Instructions in section 2 of the Bombardier SB 670BA-36-016, Revision A, dated 11 October 2011, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Incorporation of the initial issue of SB 670BA-36-016, dated 7 April 2011, also meets the requirements of this AD.

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.