



No.	CF-2010-37	1/2
Issue Date	28 October 2010	

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- 2010-37

Subject: Air Data Computer - Erroneous Airspeed and Altitude Indications

Effective: 12 November 2010

Applicability: All Bombardier Inc. Models CL-600-2B19, CL-600-2C10, CL-600-2D15 and CL-600-2D24 aeroplanes.

Compliance: As indicated unless already accomplished.

Background: There have been several in-service reports of airspeed mismatch between the pilot and co-pilot's airspeed indicators. It was discovered that during or after heavy rain, the pitot-static tubing may become partially or completely blocked by water, which fails to enter the drain bottles. Investigation revealed that drain bottles used in the primary pitot-static system include check valves, which impede the entry of water into the drain bottle. This condition, if not corrected, may result in erroneous airspeed and altitude indications.

This directive mandates replacement of the Water Accumulator Assemblies to improve drainage of the pitot-static tubing.

Corrective Actions: Within nine months from the effective date of this directive, accomplish the following:

A. For Model CL-600-2B19 aeroplanes:

1. Replace all of the following Water Accumulator Assemblies installed on the pitot and static lines of the Air Data Computer (ADC), part numbers (P/N): 50029-001, 9435015, 50030-001 and 9435014 with P/N 50036-001 in accordance with the Accomplishment Instructions of Bombardier Service Bulletin (SB) 601R-34-147, Revision A, dated 03 November 2009 or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.
2. As of the effective date of this directive, installation of Water Accumulator Assembly P/N 50029-001, 9435015, 50030-001 or 9435014 on the pitot and static lines of the ADC is not permitted.

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

B. For Models CL-600- 2C10, CL- 600-2D15 and CL- 600- 2D24 aeroplanes:

1. Replace the Water Accumulator Assemblies installed on the pitot and static lines of the ADC, P/N 50033-001 with P/N 50036-001 in accordance with the Accomplishment Instructions of Bombardier SB 670BA-34-030, Revision B, dated 23 March 2010 or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.
2. As of the effective date of this directive, installation of Water Accumulator Assembly P/N 50033-001 on the pitot and static lines of the ADC is not permitted.

Authorization: For Minister of Transport, Infrastructure and Communities

ORIGINAL SIGNED BY

Derek Ferguson
Chief, Continuing Airworthiness

Contact: Mr. Gordanko Jeremic, Continuing Airworthiness, Ottawa, telephone 613-952-4357, facsimile 613-996-9178 or e-mail CAWWEBFeedback@tc.gc.ca or any Transport Canada Centre.