



No.	CF-2012-30	1/2
Issue Date	7 December 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-2012-30

Subject: Air Data Computer – Erroneous Airspeed and Altitude Indications

Effective: 21 December 2012

Applicability: Bombardier Inc. aeroplanes:

**Model CL-600-2B16 (601-3A/3R Variant), serial numbers 5001 through 5194;
Model CL-600-2B16 (604 Variant), serial numbers 5301 through 5665, and 5701 to 5918.**

Compliance: As indicated below, unless already accomplished.

Background: A number of reports were received from the operators indicating airspeed mismatch between the pilot and co-pilot's airspeed indicators. The erroneous indication occurred during or after heavy rain. Further investigation revealed that during heavy precipitation, the pitot static tubing may become partially or completely blocked by the water which didn't enter the drain bottle(s). This condition, if not corrected, may result in erroneous airspeed and altitude indications.

This AD mandates the replacement of the drain bottles to improve drainage of the pitot-static tubing.

Corrective Actions: Within 24 months from the effective date of this AD, accomplish the following:

A. For model CL-600-2B16 (601-3A/3R Variant) aeroplanes, serial numbers 5001 through 5194 :

1. Inspect if the drain bottles part numbers (P/N) 50029-001, 50030-001, 9035000, 9035001, 9435014, 9435015, or 601A51704-5 are installed on the aeroplane.
 - a. If none of these P/Ns are installed on the pitot static lines of the Air Data Computer (ADC), no further action is required and compliance with this AD is complete.
 - b. If one of the above P/Ns is installed on the pitot static lines of the ADC, proceed to paragraph A.2. of this AD.

2. Replace the drain bottles installed on the pitot static lines of the ADC in accordance with the Accomplishment Instructions of Bombardier Service Bulletin (SB) 601-0617, Revision 2, dated 14 November 2012, 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

3. As of the effective date of this AD, it is prohibited for anyone to install the drain bottles P/N 50029-001, 50030-001, 9035000, 9035001, 9435014, 9435015, or 601A51704-5 on CL-600-2B16 (601-3A/3R Variant) aeroplanes.
- B. For model CL-600-2B16 (604 variant) aeroplanes, serial numbers 5301 through 5665:
1. Replace drain bottles installed on the pitot static lines of the ADC in accordance with the Accomplishment Instructions of Bombardier SB 604-34-065, Revision 1, dated 15 October 2012, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.
 2. As of the effective date of this AD, it is prohibited for anyone to install the drain bottles P/N 50029-001, 50030-001, 9035000, 9035001, 9435014, or 9435015 on the pitot and static lines of the ADCs, or P/N 50030-001, 50034-002, 9435014, or 9035001 on the pitot line of the Integrated Stand-by Instrument (ISI) on CL-600-2B16 (604 Variant) aeroplanes.
- C. For model CL-600-2B16 (604 variant) aeroplanes serial numbers 5701 through 5918:
1. Replace the drain bottles installed on the pitot static lines of the ADC in accordance with the Accomplishment Instructions of Bombardier SB 605-34-027, Revision 1, dated 15 October 2012, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.
 2. As of the effective date of this AD, it is prohibited for anyone to install the drain bottles P/N 50029-001, or 50030-001 on the pitot-static and static lines of the ADCs, or 50030-001, or 50034-002 on the pitot line of the ISI on CL-600-2B16 (604 Variant) aeroplanes.

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

ORIGINAL SIGNED BY

Derek Ferguson
Chief, Continuing Airworthiness

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