



# AIRWORTHINESS DIRECTIVE

*This Airworthiness Directive (AD) is issued pursuant to Canadian Aviation Regulation (CAR) 521.427. No person shall conduct a take-off or permit a take-off to be conducted in an aircraft that is in their legal custody and control, unless the requirements of CAR 605.84 pertaining to ADs are met. Standard 625 - Aircraft Equipment and Maintenance Standards Appendix H provides information concerning alternative means of compliance (AMOC) to ADs.*

**Number:**

CF-2017-01

**Effective Date:**

20 January 2017

**ATA:**

34

**Type Certificate:**

A-131

**Subject:**

Navigation – Flight Instruments – Unreliable Air Data in the Cockpit

**Applicability:**

Bombardier Inc. model CL-600-2B16 (604 variant) aeroplanes, serial numbers 5301 through 5665, 5701 through 5988, and 6050 through 6080.

**Compliance:**

Within 30 days from the effective date of this AD, unless already accomplished.

**Background:**

A number of in-service incidents have been reported on CL-600-2C10 aeroplanes regarding the loss of all air data system information provided to the crew. The air data system information was recovered as the aeroplane descended to lower altitudes. An investigation determined that the root cause in both events was high altitude icing (ice crystal contamination). If not recognized and addressed, this condition may affect continued safe flight and landing.

Due to similarities in the air data systems, similar events could happen on Bombardier Inc. CL-600-2B16 aeroplanes.

This AD mandates the incorporation of Aircraft Flight Manual (AFM) procedures to guide the crew to stabilize the aeroplanes airspeed and attitude for continued safe flight and landing.

**Corrective Actions:**

Amend the Transport Canada approved AFM by incorporating the procedure for Unreliable Airspeed as detailed in the following revisions, or later revisions of these procedure approved by Transport Canada.

Aeroplane Model	Aeroplane Serial Numbers	AFM Revision Number	AFM Revision Date
CL-600-2B16 (604 variant)	5301 to 5665	Revision 102	30 August 2016
CL-600-2B16 (604 variant) Marketing Designation – Challenger 605	5701 to 5988	Revision 40	30 August 2016
CL-600-2B16 (604 variant) Marketing Designation – Challenger 650	6050 through 6080	Revision 5	30 August 2016

**Authorization:**

For the Minister of Transport,

*ORIGINAL SIGNED BY*

Rémy Knoerr  
Chief, Continuing Airworthiness  
Issued on 6 January 2017

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