



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:	Effective Date:
CF-2019-24	19 July 2019
ATA:	Type Certificate:
34	A-234

Subject:
Navigation – Flight Instruments – Unreliable Air Data in the Cockpit

Applicability:
Bombardier Inc. model BD-100-1A10 aeroplanes, serial numbers 20001 through 20688.

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 transport category aeroplanes related to the loss of all air data system information provided to the crew. The air data system information was recovered as the aeroplanes descended to lower altitudes. An investigation determined that the root cause in all events was high altitude icing (ice crystal contamination). If not recognized and addressed, this condition may affect continued safe flight and landing.

Due to the possibility that similar unreliable air data events could occur on Bombardier Inc. BD-100-1A10 aeroplanes, this AD mandates the incorporation of Airplane Flight Manual (AFM) procedures that will allow the crew to stabilize the aeroplane’s airspeed and attitude for continued safe flight and landing.

- Corrective Actions:**
- A. Amend the applicable Transport Canada (TC) approved AFM by incorporating Chapter 03 EMERGENCY PROCEDURES – Avionics (section 03-17) Unreliable Airspeed and Chapter 04 NORMAL PROCEDURES – After Takeoff (section 04-04) Go-Around as detailed in the table below, or later revisions of these procedures approved by TC.

Aeroplane Serial Number	AFM	AFM Revision	Issue Date
20001 through 20500	CSP 100-1	Revision 48	03 July, 2017
20501 through 20688	CH 350 AFM	Revision 14	03 July, 2017

- B. Following incorporation of the above-mentioned procedures, advise all flight crews of the changes to the Emergency Procedures for Unreliable Airspeed.

Authorization:
For the Minister of Transport,
ORIGINAL SIGNED BY

Rémy Knoerr
Chief, Continuing Airworthiness
Issued on 5 July 2019

Contact:

Gordanko Jeremic, Continuing Airworthiness, Ottawa, telephone 888-663-3639, facsimile 613-996-9178 or e-mail AD-CN@tc.gc.ca or any Transport Canada Centre.