



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) with ADs.

Number:

CF-2020-50

Effective Date:

4 December 2020

ATA:

34

Type Certificate:

A-177

Subject:

Navigation – Flight Instruments - Unreliable Air Data in the Cockpit

Applicability:

Bombardier Inc. model BD-700-1A10 and BD-700-1A11 aeroplanes, serial numbers 9002 through 9998 and 60001 through 60027.

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 was usually 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-700 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:

Amend the applicable Transport Canada (TC) approved AFM by incorporating the applicable AFM sections and supplements identified in Table 1 of this AD, or later revisions of these procedures approved by TC, inform all flight crews, and, thereafter, operate the aeroplane accordingly.

Table 1: AFM References

Aeroplane Model Marketing Designation	AFM Publication Number	AFM Revision and Release Date	AFM Section	AFM Supplement if applicable
BD-700-1A10 Global Express	CSP 700-1	Rev: 104 May 21, 2020	Chapter 03 – Emergency Procedures, Primary Flight Displays 1. Primary Flight Displays A. Unreliable Airspeed	Supplement 20 – Operations at Airport Elevations Above 10,000 Feet 3. Emergency Procedures A. Landing Distance Factors (4) Instruments
BD-700-1A10 Global Express XRS	CSP 700-1A	Rev: 104 May 21, 2020	Chapter 03 – Emergency Procedures, Primary Flight Displays 1. Primary Flight Displays A. Unreliable Airspeed	Supplement 20 – Operations at Airport Elevations Above 10,000 Feet 3. Emergency Procedures A. Landing Distance Factors (4) Instruments
BD-700-1A11 Global 5000	CSP 5000-1	Rev: 65 May 21, 2020	Chapter 03 – Emergency Procedures, Primary Flight Displays 1. Primary Flight Displays A. Unreliable Airspeed	Supplement 20 – Operations at Airport Elevations Above 10,000 Feet 3. Emergency Procedures A. Landing Distance Factors (4) Instruments
BD-700-1A11 Global 5000 ft. GVFD	CSP 700-5000-1V	Rev: 33 Feb 21, 2020	Chapter 03 – Emergency Procedures, Instruments System Instruments System 1. Unreliable Airspeed	Supplement 20 – Operations at Airport Elevations Above 10,000 Feet 3. Emergency Procedures A. Landing Distance Factors (4) Instruments
BD-700-1A10 Global 6000	CSP 700-1V	Rev: 33 Feb 21, 2020	Chapter 03 – Emergency Procedures, Instruments System Instruments System 1. Unreliable Airspeed	Supplement 20 – Operations at Airport Elevations Above 10,000 Feet 3. Emergency Procedures A. Landing Distance Factors (4) Instruments
BD-700-1A11 Global 5500	CSP 700-5500-1	Rev: 5 May 21, 2020	Chapter 03 – Emergency Procedures, Instruments System Instruments System 1. Unreliable Airspeed	Not applicable
BD-700-1A10 Global 6500	CSP 700-6500-1	Rev: 5 May 21, 2020	Chapter 03 – Emergency Procedures, Instruments System Instruments System 1. Unreliable Airspeed	Not applicable

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Rémy Knoerr
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Issued on 20 November 2020

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