



# 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-2021-35

**Effective Date:**

9 November 2021

**ATA:**

46

**Type Certificate:**

A-177

**Subject:**

Information Systems – Incorrect Airplane Flight Manual (AFM) Wet and Contaminated Runway Stopping Distance

**Applicability:**

Bombardier Inc. model BD-700-1A10 and BD-700-1A11 aeroplanes, serial numbers 9001 through 9860, 9862 through 9871, 9873 through 9879, 60005, 60024, 60030, 60032, 60037, 60043, 60045 and 60049.

**Compliance:**

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

**Background:**

It was discovered that the thrust reverser correction factors presented in certain AFM performance charts for landing on contaminated runways do not provide sufficient margin for stopping distances in certain conditions. If not corrected, use of the affected performance charts could lead to longitudinal runway excursions.

This AD mandates the incorporation of a revision to the AFM to correct the affected performance charts.

**Corrective Actions:**

Amend the applicable Transport Canada approved AFM by incorporating all chapters as follows, in accordance with the applicable AFM publication number indicated in Table 1 below or later revisions approved by Transport Canada:

Applicable to all aeroplanes in the applicability section of this AD:

Chapter 6 – Performance

- Performance – Take-Off Performance, 2. Take-Off Performance – Slat Out/Flap 6°, C. Wet Runway Take-Off Field Length
- Performance – Take-Off Performance, 3. Take-Off Performance – Slat Out/Flap 16°, C. Wet Runway Take-Off Field Length
- Performance – Performance Data for Operation in Icing Conditions, 2. Performance Corrections, B. Effects of Cowl Anti-Ice On
- Performance – Performance Data for Operation in Icing Conditions, 2. Performance Corrections, C. Effects of Wing and Cowl Anti-Ice On/Ice Accumulation

Chapter 7 – Supplements

- Supplement 3 – Operation on Contaminated Runways
- Supplement 20 – Operations At Airport Elevations Above 10,000 Feet, 6. Performance, B. Take-Off Field Length
- Supplement 20 – Operations At Airport Elevations Above 10,000 Feet, 6. Performance, G. Operation in Icing Conditions

Also applicable to model BD-700-1A10 with marketing designation Global Express and Global Express XRS.

Chapter 7 – Supplements

- Supplement 5 – Improved Climb Performance, 6. Performance, A. Improved Climb Performance

Also applicable to model BD-700-1A10 with marketing designation Global 6000 and model BD-700-1A11 with marketing designation Global 5000 ft. GVFD.

Chapter 7 – Supplements

- Supplement 35 – Operation on Wet Grooved Runways, 6. Performance, A. Take-Off on Wet Grooved Runways

Following incorporation of the above-mentioned changes, advise all flight crews of the changes and thereafter operate the aeroplane accordingly.

**Table 1: AFM References**

<b>Aeroplane Model</b>	<b>Marketing Designation</b>	<b>AFM Publication Number and Revision, dated 16 August 2021</b>
BD-700-1A10	Global Express	CSP 700-1 Revision 109
BD-700-1A10	Global Express XRS	CSP 700-1A Revision 109
BD-700-1A10	Global 6000	CSP 700-1V Revision 39
BD-700-1A11	Global 5000	CSP 700-5000-1 Revision 70
BD-700-1A11	Global 5000 ft. GVFD	CSP 700-5000-1V Revision 39

**Authorization:**

For the Minister of Transport,

*ORIGINAL SIGNED BY*

Rémy Knoerr  
Chief, Continuing Airworthiness  
Issued on 26 October 2021

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