



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-2022-49

Effective Date:

6 September 2022

ATA:

46

Type Certificate:

A-177

Subject:

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

Applicability:

Bombardier Inc. aeroplanes:

Model BD-700-1A10, serial numbers 9381, 9432 through 9860, 9863 through 9867, 9869 through 9871, 9873, 9875 through 9878, 60005, 60024, 60030, 60032, 60037, 60043, 60045, 60049, 60056, 60057, 60061, 60068 and 60072,

Model BD-700-1A11, serial numbers 9386, 9401 and 9445 through 9997.

Compliance:

Within 30 days from the effective date of this 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.

CF-2021-35 mandated the use of AFM publication numbers CSP 700-1V and CSP 700-5000-1V Revision 39 or later revisions that incorporated the changes to the wet and contaminated runway stopping distance data.

Since AD CF-2021-35 was issued, it was discovered that the mandated AFM changes to Figures 07-35-2 and 07-35-4 are incorrect in AFM publication numbers CSP 700-1V and CSP 700-5000-1V revision numbers 40 and 41.

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

Corrective Actions:

- A. 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:

Chapter 7 – Supplements

- Supplement 35 – Operation on Wet Grooved or Wet Porous Friction Course Runways, 6. Performance, A. Take-Off on Wet Grooved or Wet PFC Runways, Figure 07-35-2
- Supplement 35 – Operation on Wet Grooved or Wet Porous Friction Course Runways, 6. Performance, A. Take-Off on Wet Grooved or Wet PFC Runways, Figure 07-35-4

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

Table 1: AFM References

Aeroplane Model	Marketing Designation	AFM Publication Number and Revision, dated 19 May 2022
BD-700-1A10	Global 6000	CSP 700-1V Revision 42
BD-700-1A11	Global 5000 ft. GVFD	CSP 700-5000-1V Revision 42

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Philippe Ngassam
Director, National Aircraft Certification
Issued on 23 August 2022

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