



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-2024-22R1

Effective Date:

21 November 2025

ATA:

34

Type Certificate:

A-177

Subject:

Navigation – Required Navigation Performance Authorization Required (RNP-AR) Approach Vertical Deviation

Revision:

Supersedes AD CF-2024-22, issued 13 June 2024.

Applicability:

Bombardier Inc. model BD-700-2A12 aeroplanes, serial numbers 70005 through 70193.

Compliance:

Within 30 days from the effective date of AD CF-2024-22 (27 June 2024), unless already accomplished.

Background:

It was discovered that a partial loss of thrust after an engine failure during an RNP-AR approach under certain weight, altitude and temperature (WAT) conditions, may lead to a descent below 75 ft (1 dot) of the path guidance, requiring a go-around. The resultant vertical deviation may exceed allowable approach containment for obstacle clearance and may largely reduce the safety margins in the missed approach.

AD CF-2024-22 mandated the incorporation of a revision to the Airplane Flight Manual (AFM), which includes WAT tables to contain possible vertical deviations within the 75 ft requirement.

Since AD CF-2024-22 was issued, Bombardier Inc. has introduced new aeroplane serial numbers that incorporate the intent of AD CF-2024-22 in production and are not affected by the unsafe condition. This AD, CF-2024-22R1, revises the applicability to limit the affected population and otherwise maintains the requirements of AD CF-2024-22.

Corrective Actions:

- A. Amend the Transport Canada approved AFM CSP 700-7000-1 by incorporating the Supplement 10 – RNP-AR Approach Operations, Temporary Revision TR-58 dated 21 March 2024 or later revisions approved by Transport Canada.
- B. Following incorporation of the above-mentioned revision, advise all flight crews of the changes and thereafter operate the aeroplane accordingly.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Jenny Young
Chief, Continuing Airworthiness
Issued on 7 November 2025

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