



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-2023-25

Effective Date:

27 April 2023

ATA:

52

Type Certificate:

A-177

Subject:

Doors – Passenger Door – Detent Mechanism Aircraft Maintenance Manual (AMM) Procedure

Applicability:

Bombardier Inc. model BD-700-1A10 and BD-700-1A11 aeroplanes, serial numbers 9002 through 60065.

Compliance:

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

Background:

Bombardier Inc. discovered that Time Limited Maintenance Check (TLMC) Item 52-11-00-201 – Functional Test of the Passenger Door Mechanism, does not detect latent failures of the passenger door detent mechanisms. The associated AMM Task 52-11-00-720-801 – Functional Test of the Passenger Door Mechanism, does not contain inspection instructions for the passenger door detent mechanisms.

Latent failures of the uninspected detents (external handle detent and torque tube detent) in combination with a failure of the tension pot spring assembly, can lead to the opening of the main passenger door in unpressurized flight.

Bombardier has revised the affected AMM Task 52-11-00-720-801 – Functional Test of the Passenger Door Mechanism, to add the inspection of the external handle detent, the inspection of the torque tube detent, and instructions to measure the force applied on both the external handle and the internal handle to open the door.

This AD prohibits the use of previous versions of AMM Task 52-11-00-720-801 and mandates the use of the revised AMM task when performing TLMC Item 52-11-00-201.

Corrective Actions:

- A. Use AMM Task 52-11-00-720-801, dated 16 August 2022, or later revisions of this task when performing TLMC Item 52-11-00-201.
- B. It is prohibited to use AMM Task 52-11-00-720-801, dated 19 May 2022 or earlier.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Jenny Young
Chief, Continuing Airworthiness
Issued on 13 April 2023

Contact:

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