



EMERGENCY 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-2022-23

Effective Date:

25 April 2022

ATA:

25

Type Certificate:

A-236

Subject:

Equipment/Furnishings – Removal of Inflation Valve Safety Pin from Passenger and Service Door Escape Slides

Applicability:

Airbus Canada Limited Partnership (formerly C Series Aircraft Limited Partnership, Bombardier Inc.) aeroplanes:

Model BD-500-1A10, serial numbers 50034 through 50063,

Model BD-500-1A11, serial numbers 55048 through 55105, 55107 through 55115, 55117 through 55124, 55126 through 55149, and 55152 through 55156.

Compliance:

Within 100 hours air time or 30 days, whichever occurs first, from the effective date of this AD, unless already accomplished.

Background:

The inflation valve safety pin has been found installed on the nitrogen bottle of two forward passenger door escape slides in-service. An investigation found that this safety pin may also be installed on the nitrogen bottles of the forward and aft passenger and service door escape slides on other aeroplanes in-service. Failure to remove the inflation valve safety pin can prevent the deployment of the affected escape slides during an emergency evacuation, and this condition may affect up to four out of the six emergency exits.

To address this risk, Airbus Canada Limited Partnership (ACLP) released a service bulletin (SB) to inspect the escape slides of the forward and aft passenger and service doors to determine if the inflation valve safety pin is installed on the nitrogen bottle and, if installed, remove and stow the inflation valve safety pin in the safety pin stowage pouch of the escape slide. To address this unsafe condition, this AD requires the actions specified in the SB to be performed.

Corrective Actions:

- A. Inspect the escape slides of the forward and aft passenger and service doors to determine if the inflation valve safety pin is installed on the nitrogen bottle and, if installed, remove and stow the inflation valve safety pin in the safety pin stowage pouch of all affected escape slides before further flight, in accordance with ACLP SB BD500-256016 Issue 001, dated 7 April 2022, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.
- B. Removal and stowage of the inflation valve safety pin in the safety pin stowage pouch of the escape slides of the forward and aft passenger and service doors, as required, also satisfies the requirements of this AD, when conducted in accordance with Option 1 or Option 2 below:

- a. Option 1: Accomplishment of A220-RIL-25-60-001 Revision NC or Revision A, dated 31 March 2022 and 1 April 2022, respectively, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.
- b. Option 2: Prior to the effective date of this AD, accomplishment of all of the following Aircraft Maintenance Publication (AMP) Data Modules (DMs):
 - i. AMP DM BD500-A-J25-63-01-01AAA-720A-A (Door mounted slide, forward passenger door – Install procedure) Issue 16, dated 17 December 2021, or earlier revisions of this AMP DM;
 - ii. AMP DM BD500-A-J25-63-01-02AAA-720A-A (Door mounted slide, forward service door – Install procedure) Issue 15, dated 15 December 2021, or earlier revisions of this AMP DM;
 - iii. AMP DM BD500-A-J25-63-01-03AAA-720A-A (Door mounted slide, aft passenger door – Install procedure) Issue 15, dated 23 December 2021, or earlier revisions of this AMP DM; and
 - iv. AMP DM BD500-A-J25-63-01-04AAA-720A-A (Door mounted slide, aft service door – Install procedure) Issue 16, dated 14 December 2021, or earlier revisions of this AMP DM.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Rémy Knoerr
Chief, Continuing Airworthiness
Issued on 22 April 2022

Contact:

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