



# AIRWORTHINESS DIRECTIVE

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*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) to ADs.*

**Number:**

CF-2018-15

**Effective Date:**

20 June 2018

**ATA:**

50

**Type Certificate:**

A-236

**Subject:**

Cargo and Accessory Compartment – Dislodged Forward and Aft Cargo Compartment Blow-Out Panels

**Applicability:**

C Series Aircraft Limited Partnership (Formerly Bombardier Inc.) aeroplanes:

Model BD-500-1A10, serial numbers 50001 and subsequent, equipped with blow-out panel part numbers D762213-503 or D762216-505 or D762209-503,

Model BD-500-1A11, serial numbers 55001 and subsequent, equipped with blow-out panel part numbers D762213-503 or D762216-505 or D762209-503.

**Compliance:**

As indicated below, unless already accomplished.

**Background:**

Multiple events of dislodged cargo compartment blow-out panels have been reported in-service. It was determined that these events were caused by baggage impacting the cargo panel cage, or the cargo compartment liner below the cargo panel cage, during baggage loading and unloading on the ground, or during flight due to shifting luggage.

Dislodged cargo compartment blow-out panels create openings in the forward and aft cargo compartments. In the event of a cargo compartment fire, these unintended openings in the forward and aft cargo compartments would provide a path for smoke, fire, and Halon to enter the adjacent equipment bays, flight deck, and passenger cabin, which could delay smoke detection in the forward and aft cargo compartments and result in the forward and aft cargo compartments not being able to maintain Halon concentration required for fire suppression. The cargo compartment fire may become uncontrollable if this condition is not corrected.

This AD mandates repetitive inspections of the affected forward and aft cargo compartment blow-out panels, and reporting of inspection findings where dislodged blow-out panels have been found.

**Corrective Actions:**

**Part I – Initial Inspection of Forward and Aft Cargo Compartment Blow-Out Panels**

Within 7 days or 50 flight cycles, whichever occurs first, from the effective date of this AD, inspect all blow-out panels in the forward and aft cargo compartments to confirm that no blow-out panels are dislodged in accordance with Aircraft Maintenance Publication (AMP) Data Module (DM) BD500-A-J50-10-01-01AAA-310B-A, dated 2018-05-16.

Re-install all dislodged forward and aft cargo compartment blow-out panels in accordance with AMP DM BD500-A-J50-10-01-00AAA-521A-A, dated 2018-05-16, before further flight.

## **Part II – Repeat Inspection of Forward and Aft Cargo Compartment Blow-Out Panels**

At intervals not to exceed 100 flight cycles, repeat the inspection of all blow-out panels in the forward and aft cargo compartments to confirm that no blow-out panels are dislodged in accordance with AMP DM BD500-A-J50-10-01-01AAA-310B-A, dated 2018-05-16.

Re-install all dislodged forward and aft cargo compartment blow-out panels in accordance with AMP DM BD500-A-J50-10-01-00AAA-521A-A, dated 2018-05-16, before further flight.

## **Part III – Reporting Requirement**

Within 30 days after the inspections required by Part I and Part II of this AD, if any blow-out panel in the forward or aft cargo compartments is found dislodged, report all findings to the C Series Aircraft Limited Partnership. Reportable findings include the aircraft serial number on which dislodged blow-out panels were found, date of inspection, and part numbers and locations of each dislodged blow-out panel.

### **Authorization:**

For the Minister of Transport,

*ORIGINAL SIGNED BY*

Rémy Knoerr  
Chief, Continuing Airworthiness  
Issued on 6 June 2018

### **Contact:**

Hilary Ross, Continuing Airworthiness, Ottawa, telephone 1-888-663-3639, facsimile 613-996-9178 or e-mail [AD-CN@tc.gc.ca](mailto:AD-CN@tc.gc.ca) or any Transport Canada Centre.