



# 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) with ADs.*

**Number:**

CF-2023-20

**Effective Date:**

5 April 2023

**ATA:**

24

**Type Certificate:**

A-236

**Subject:**

Electrical Power – Power Feeder Cables Fouling in Wing Trailing Edge

**Applicability:**

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

Model BD-500-1A10, serial numbers 50010 through 50018, 50020 through 50059, and 50061,

Model BD-500-1A11, serial numbers 55003 through 55016, 55018 through 55106, and 55109 through 55112.

**Compliance:**

As indicated below, unless already accomplished.

**Background:**

Multiple occurrences were detected on the production line whereby there was low clearance or fouling between certain wiring harnesses and a hydraulic bracket and structure in the wing trailing edge area. These conditions were caused by an inappropriate distribution of slack in the wiring harnesses. Low clearance or fouling between the wiring harnesses and adjacent structure could result in wear of the harnesses leading to electrical arcing. Arcing in the presence of a leak from the hydraulic lines in the area could lead to a fire.

This AD requires an inspection of the harnesses for clearance and damage, with action to seek and implement a disposition for damage and correct the clearance as required.

**Corrective Actions:**

- A. Inspect certain wiring harnesses for damage and clearance to adjacent structure and adjust as required, in accordance with the Accomplishment Instructions of Airbus Canada Service Bulletin (SB) BD500-240012 Issue 003, dated 17 March 2023. Compliance is required as follows for aeroplanes that have accumulated, as of the effective date of this AD:
  - 1. 8000 hours air time or less: before accumulating 9350 total hours air time; or
  - 2. More than 8000 hours air time: within 1500 hours air time from the effective date of this AD.
- B. If the inspected harnesses are found worn or damaged, contact Airbus Canada for an approved disposition and incorporate that disposition before further flight.

This paragraph gives credit for aeroplanes on which Issue 001 or Issue 002 of SB BD500-240012 have been incorporated, prior to the effective date of this AD.

**Authorization:**

For the Minister of Transport,

*ORIGINAL SIGNED BY*

Jenny Young  
Chief, Continuing Airworthiness  
Issued on 22 March 2023

**Contact:**

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