



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-2023-20R1

Effective Date:

4 October 2024

ATA:

24

Type Certificate:

A-236

Subject:

Electrical Power – Power Feeder Cables Fouling in Wing Trailing Edge

Revision:

Supersedes AD CF-2023-20, issued 22 March 2023.

Applicability:

Airbus Canada Limited Partnership (ACLP) (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.

AD CF-2023-20 required 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, in accordance with the accomplishment instructions of ACLP Service Bulletin (SB) BD500-240012 Issue 003, dated 17 March 2023.

Since AD CF-2023-20 was issued, reports have been received that the accomplishment instructions of above-mentioned SB contain typographical errors and that the requirements of AD CF-2023-20 Paragraph B are unclear. ACLP has updated this SB to correct these typographical errors.

This AD, CF-2023-20R1, is issued to clarify the requirements of Paragraph B and to update the Paragraph A requirements to require the adjustment of certain wiring harnesses before further flight as required, to ensure any damage repaired per Paragraph B is not reintroduced. This AD, CF-2023-20R1, otherwise maintains the requirements of AD CF-2023-20.

Corrective Actions:

- A. Inspect certain wiring harnesses for damage and clearance to adjacent structure and adjust as required before further flight, in accordance with the procedure in section 3 of the Accomplishment Instructions of ACLP SB BD500-240012 Issue 004, dated 18 June 2024, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada (TC). Compliance is required as follows for aeroplanes that have accumulated, as of the effective date of AD CF-2023-20 (5 April 2023):
 - 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 AD CF-2023-20 (5 April 2023).
- B. During accomplishment of Paragraph A of this AD, if the inspected harnesses are found worn or damaged, contact ACLP for an approved disposition and incorporate that disposition before further flight, in accordance with the procedure in section 3 of the Accomplishment Instructions of ACLP SB BD500-240012 Issue 004, dated 18 June 2024, or later revisions approved by the Chief, Continuing Airworthiness, TC.
- C. This paragraph gives credit for aeroplanes on which an earlier issue of ACLP SB BD500-240012 has been accomplished, prior to the effective date of this AD, to satisfy the requirements of Paragraphs A and B of this AD.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Audrey Vézina-Manzo
Acting Chief, Continuing Airworthiness
Issued on 20 September 2024

Contact:

Hilary Ross, Continuing Airworthiness, Ottawa, telephone 888-663-3639, facsimile 613-996-9178 or e-mail TC.AirworthinessDirectives-Consignesdenavigabilite.TC@tc.gc.ca or any Transport Canada Centre.