



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-2025-04

Effective Date:

30 January 2025

ATA:

92

Type Certificate:

A-236

Subject:

Electrical System Installation – Lavatory A Maintenance Panel – Harnesses Inadequately Secured

Applicability:

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

Model BD-500-1A10, serial numbers 50001 through 50066,

Model BD-500-1A11, serial numbers 55001 through 55157.

Compliance:

As indicated below, unless already accomplished.

Background:

It was discovered on the production line that electrical system harnesses in Lavatory A had reduced bend radii, were not properly secured and did not meet the requirement for clearance from an oxygen supply line. If left uncorrected, inadequately secured and installed, wire harnesses will create a chafing condition and could become a source of ignition, and when combined with an oxygen leak as well as loss of ventilation, may lead to an uncontrolled fire.

To mitigate this unsafe condition, this AD requires an inspection of the sleeve and the electrical harness for chafing damage, and if required, rectification of damaged parts. This AD also requires the installation of tie-down straps to secure as well as ensure adequate clearance of the electrical harness from the oxygen supply line, as applicable.

Corrective Actions:

For the purpose of this AD, the following definition applies:

The ACLP SB: ACLP Service Bulletin (SB) BD500-254018, Issue 001, dated 11 June 2024, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

- A. Within 12 months from the effective date of this AD, perform a detailed inspection of the sleeve and electrical harness for chafing condition, and for correct installation of the electrical harness, in accordance with the procedure in Section 2 of the Accomplishment Instructions of the ACLP SB.
- B. If damage to the sleeve or electrical harness is found during the inspection required by Paragraph A of this AD, before further flight, repair the damage in accordance with the procedure in Section 2 of the Accomplishment Instructions of the ACLP SB.
- C. If an incorrectly installed electrical harness is found during the inspection required by Paragraph A of this AD, before further flight, install tie-down straps on the electrical harness in accordance with the procedure in Section 2 of the Accomplishment Instructions of the ACLP SB.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Jenny Young
Chief, Continuing Airworthiness
Issued on 16 January 2025

Contact:

Christopher Banken, 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.