



# 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-2025-10

**Effective Date:**

13 March 2025

**ATA:**

50

**Type Certificate:**

A-236

**Subject:**

Cargo and Accessory Compartments – Environmental Control System (ECS) Ducts – Flammability Non-Compliance

**Replacement:**

Supersedes AD CF-2024-21, issued 6 June 2024.

**Applicability:**

Airbus Canada Limited Partnership (ACLP) (formerly C Series Aircraft Limited Partnership (CSALP), Bombardier Inc.) model BD-500-1A10 and BD-500-1A11 aeroplanes, all serial numbers.

**Compliance:**

As indicated below, unless already accomplished.

**Background:**

ECS ducts, located on forward and aft cargo compartment ceiling panels, having part numbers (P/N) D761189-105, D761189-501 and D762232-509 have been manufactured using material APF1180-7781 which replaced discontinued legacy material Solvay L591PG-7781. The material change to APF1180-7781 was done without changing the ECS duct P/N. Subsequent certification testing of the ECS ducts made using material APF1180-7781 failed the flammability test requirements established by CAR 525.855(c). These non-compliant ECS ducts may have been installed on certain model BD-500-1A10 and BD-500-1A11 aeroplanes during production. Insufficient fire protection capability of the ECS duct material could result in an inability to contain a fire within the cargo compartment, resulting in uncontrolled fire.

To address this unsafe condition, fire-resistant sleeve assemblies were designed to be installed over non-compliant ECS ducts to restore compliance with CAR 525.855(c). For new production aircraft, these sleeve assemblies were incorporated as part of redesigned next higher assembly (NHA) cargo ceiling panel assemblies. AD CF-2024-21 required an inspection of affected in-service aeroplanes to determine if non-compliant ECS ducts have been installed during production and, if installed, a retrofit of affected cargo ceiling panel assemblies to install sleeves over non-compliant ECS ducts.

AD CF-2024-21 also prohibited the installation of ECS ducts having P/Ns D761189-105, D761189-501 and D762232-509 as replacement parts, unless the fire-resistant sleeve assembly is also installed.

Since AD CF-2024-21 was issued, ACLP has revised the instructions contained in their Service Bulletin (SB) to include proper identification for the ceiling panel liners to ensure configuration control. This AD, CF-2025-10, maintains the requirements of AD CF-2024-21, but requires re-identification of the ceiling panel liners in the affected cargo compartments for aeroplanes that already incorporated the corrective action.

**Corrective Actions:**

For the purpose of this AD, the following definitions apply:

**Group A aeroplanes:** Model BD-500-1A10, serial numbers 50060, 50062 and 50063, and model BD-500-1A11, serial numbers 55128 through 55150, 55152, 55154, and 55155.

**ACLP SB:** Airbus Canada SB BD500-501003 Issue 003, dated 18 December 2024, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

**Part I – Inspection and Retrofit – Applicable to Group A aeroplanes**

Before accumulating 9350 total hours air time or within 60 months from the effective date of AD CF-2024-21 (20 June 2024), whichever occurs first, carry out an inspection of the affected ECS ducts to determine the lot number of the ECS ducts in accordance with the procedure in Section 3 of Part A of the Accomplishment Instructions of ACLP SB.

If the lot number of the affected ECS ducts is listed in Table 6 of the ACLP SB or the lot number cannot be determined, before further flight, install a fire-resistant sleeve assembly over non-compliant ducts in accordance with the procedure in Section 3 of Part A of the Accomplishment Instructions of ACLP SB.

Accomplishment of Part I of this AD in accordance with Airbus Canada SB BD500-501003 Issue 001, dated 21 December 2023, or Issue 002, dated November 15, 2024, prior to the effective date of this AD, also meets the intent of Part I of this AD, provided that the ceiling panel liners in the cargo compartments have been re-identified in accordance with the procedure in Section 3 of Part B of the Accomplishment Instructions of the ACLP SB.

**Part II – Installation Prohibition – Applicable to all Model BD-500-1A10 and Model BD-500-1A11 aeroplanes**

As of the effective date of AD CF-2024-21 (20 June 2024), it is prohibited to install ECS ducts having P/Ns D761189-105, D761189-501 or D762232-509 as replacement parts, unless a fire-resistant sleeve assembly is incorporated as part of a redesigned NHA cargo ceiling panel assembly or incorporated in accordance with the Accomplishment Instructions of Safran Cabin Service Bulletin F493000-50-06 as contained within ACLP SB and identified in accordance with the procedure in Section 3 of Part B of the Accomplishment Instructions of the ACLP SB.

The use of the Accomplishment Instructions of Safran Cabin Service Bulletin F493000-50-06 as contained within Airbus Canada SB BD500-501003 Issue 001, dated 21 December 2023, or Issue 002, dated November 15, 2024, prior to the effective date of this AD, also meet the intent of Part II of this AD.

**Authorization:**

For the Minister of Transport,

*ORIGINAL SIGNED BY*

Jenny Young  
Chief, Continuing Airworthiness  
Issued on 27 February 2025

**Contact:**

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