



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-2023-58

Effective Date:

8 August 2023

ATA:

26

Type Certificate:

A-236

Subject:

Fire Protection – Fire Extinguishing System (FIREX) – Line Fouling with Hi-Lite Fasteners

Applicability:

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

Model BD-500-1A10, serial numbers 50010 through 50018, 50020 through 50056

Model BD-500-1A11, serial numbers 55003 through 55016, 55018 through 55068, 55070 through 55092.

Compliance:

Within 24 months of the effective date of this AD or prior to reaching 17 000 total accumulated hours air time since new, whichever occurs first, unless already accomplished.

Background:

A design review found low clearance between the FIREX lines and the nuts of the Hi-Lite fasteners in the centre mid fuselage in locations where the fastener nut is on the same side as the FIREX lines. Fouling between the FIREX lines and the Hi-Lite fasteners could lead to a rupture of the line. This would result in a dormant failure of the cargo compartment fire extinguishing system preventing the system from being available in the event of a cargo compartment fire.

This AD is issued to require inspection of specific fasteners in the fuselage and keel beam to determine if minimum clearance is maintained. Those fasteners that do not meet the minimum clearance requirement are to be replaced with reoriented fasteners to ensure minimum clearances are maintained. This AD also requires a general visual inspection of the FIREX lines to ensure that they are not damaged. If the FIREX lines are found to be damaged, the FIREX lines are to be repaired.

Corrective Actions:

Part I – Inspection and Replacement of Fasteners in the Fuselage

Inspect and if required, repair the FIREX lines and replace the fasteners in the fuselage in accordance with the PART A Accomplishment Instructions of Airbus Canada Service Bulletin (SB) BD500-534006 Issue No. 001, dated 02 December 2020, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Part II – Inspection and Replacement of Fasteners in the Keel Beam

Inspect and if required, repair the FIREX lines and replace the fasteners in the fuselage in accordance with the PART B Accomplishment Instructions of Airbus Canada SB BD500-534006 Issue No. 001, dated 02 December 2020, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Jenny Young
Chief, Continuing Airworthiness
Issued on 25 July 2023

Contact:

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