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-2025-09

Effective Date:

10 March 2025

ATA:

57

Type Certificate:

A-236

Subject:

Wings – Discrepant Fasteners at Wing to Fuselage Joint

Applicability:

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

Model BD-500-1A10, serial numbers 50020 through 50067,

Model BD-500-1A11, serial numbers 55003 through 55016, 55018 through 55166, 55168, 55169, 55171, 55173, 55174, 55176, 55177, 55179 through 55184, and 55187.

Compliance:

As indicated below, unless already accomplished.

Background:

During rework at the final assembly line, ACLP discovered that titanium fasteners (part number (P/N) B0206003GD) had been incorrectly installed in the butt strap at the outer wing box lower skin to centre wing box interface in lieu of the correct nickel alloy fasteners (P/N B0206033GD).

If not corrected, the use of titanium fasteners could result in a reduction in joint strength and the potential damage to and loss of principal / fatigue critical structure. There is also a risk of a fuel leak if the fastener fails and falls free from the joint.

To address this unsafe condition, this AD mandates the identification of fasteners installed in the butt strap at the outer wing box lower skin to centre wing box interface, and if required, the incorporation of an ACLP repair disposition.

Corrective Actions:

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

ACLP SB Procedure: The procedure in section 2 of the Accomplishment Instructions of the ACLP Service Bulletin BD500-571004, Issue 001, dated 29 July 2024, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Serviceable Fasteners: Correct nickel alloy fasteners with head markings defined in the ACLP SB Procedure.

A. Within 500 flight cycles from the effective date of this AD or before accumulating 10 000 flight cycles, whichever occurs last, identify the fasteners at the left hand and right hand outer wing box lower skin to centre wing box butt strap interface to determine if serviceable fasteners are installed, in accordance with the ACLP SB Procedure.

B. If any fasteners other than serviceable fasteners are found, or if fasteners cannot be identified, before further flight, contact ACLP for an approved disposition in accordance with the ACLP SB procedure

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and perform the ACLP disposition instructions within the compliance time specified by those instructions, or other methods approved by the Chief, Continuing Airworthiness, Transport Canada. The repair disposition must specifically refer to this AD.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Jenny Young
Chief, Continuing Airworthiness
Issued on 24 February 2025

Contact:

William Humphries, 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.

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