



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-2023-40

Effective Date:

27 June 2023

ATA:

25

Type Certificate:

A-236

Subject:

Equipment/Furnishings – Pilot and Co-pilot Seats – Fore/Aft Adjustment Mechanism Inoperative

Applicability:

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

Model BD-500-1A10, serial numbers 50010 through 50067,

Model BD-500-1A11, serial numbers 55003 through 55233, 55235, 55236 and 55238.

Compliance:

Within 9350 hours air time from the effective date of this AD, unless already accomplished.

Background:

There have been multiple in-service occurrences of a pilot or co-pilot seat becoming locked in a fore-aft position due to disconnection of the seat fore-aft adjustment mechanism. The cause was determined to be a broken cotter pin in the seat base egress linkage resulting from interference of the cotter pin with the seat rail. Depending on the fore-aft position at which the seat becomes locked, this condition could result in a significant increase in crew workload for continued safe flight and landing.

A design solution to replace the cotter pin with a self-locking nut was introduced at production but was subsequently deemed to be non-compliant with CAR 525.607 (c) as it did not include an additional non-friction locking device.

To address the unsafe condition, this AD mandates the replacement of the existing cotter pin or self-locking nut with a smaller sized cotter pin to eliminate potential seat rail interference.

Corrective Actions:

Modify the pilot and co-pilot seat by replacing the hardware of the seat base egress linkage in accordance with the Accomplishment Instructions of Airbus Canada Service Bulletin (SB) BD500-251006, Issue 001, dated 05 April 2023, 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 13 June 2023

Contact:

Barry Devereux, 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.