



# 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-2023-57

**Effective Date:**

8 August 2023

**ATA:**

25

**Type Certificate:**

A-236

**Subject:**

Equipment/Furnishings – Emergency – Replacement and Relocation of the Wardrobe Personal Locator Beacon (PLB)

**Applicability:**

Airbus Canada Limited Partnership (formerly C Series Aircraft Limited Partnership (CSALP), Bombardier Inc.) model BD-500-1A11 aeroplanes, serial numbers 55003 through 55009, 55016, 55034, 55038, 55039, 55041 through 55043 and 55050 through 55055.

**Compliance:**

Within 60 months of the effective date of this AD, unless already accomplished.

**Background:**

A design review of the PLB containing lithium batteries found that certain original design assumptions were incorrect. It was found that the heat generated by a thermal runaway event, caused by the lithium batteries, would not be sufficiently mitigated by the PLB design to prevent any adverse effect on the two Portable Oxygen Cylinder Assemblies (POCA) located near the PLB installation. As a result, a thermal runaway could lead to the release of oxygen from each POCA, which could feed the fire caused by the thermal runaway of the lithium batteries.

This AD requires the replacement and relocation of the PLB with a new part number (P/N). The new PLB, P/N 500-32-2Y-H, combined with the relocation, mitigates the possibility of the lithium batteries in the PLB from having an adverse effect on the two POCA installations in the event of a thermal runaway.

**Corrective Actions:**

Remove PLB P/N 500-12Y, modify the wardrobe and install PLB P/N 500-32-2Y-H, in accordance with the Accomplishment Instructions of Airbus Canada Service Bulletin BD500-256021 Issue No. 001, dated 24 May 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 25 July 2023

**Contact:**

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