



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-2020-30

Effective Date:

18 September 2020

ATA:

53

Type Certificate:

A-236

Subject:

Fuselage – Forward Avionics Bay – Water Ingress from Forward Galley Drains

Applicability:

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

Model BD-500-1A10, serial numbers 50001 and subsequent,
Model BD-500-1A11, serial numbers 55001 and subsequent.

Compliance:

Within 12 months from the effective date of this AD, unless already accomplished.

Background:

Following an in-service engine shutdown during taxi, it was discovered that water was dripping into the forward avionics bay. The water had caused a short circuit, tripping a circuit breaker that led to the engine shutdown. The source of the water was rain entering through the main cabin entry door while it was open, causing the drains to overflow and dripping on the forward avionics bay below. Water ingress into the forward avionics bay could short circuit the equipment in the area and lead to a loss of air data sources resulting in a reduction in functional capabilities, and an increase in crew workload.

This AD requires a modification to install blanking plates on certain drains, and block off the associated drain tubing to prevent any future water ingress from the forward galley drains into the forward avionics bay.

Corrective Actions:

Remove existing forward galley slotted drain covers and replace with solid blanking plates, and block off the associated drain tubing in accordance with the Accomplishment Instructions of Airbus Canada Service Bulletin (SB) BD500-530009, Issue 001, dated 31 July 2020, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Rémy Knoerr
Chief, Continuing Airworthiness
Issued on 4 September 2020

Contact:

Christopher Banken, Continuing Airworthiness, Ottawa, telephone 888-663-3639, facsimile 613-996-9178 or e-mail AD-CN@tc.gc.ca or any Transport Canada Centre.