



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-2023-59

Effective Date:

9 August 2023

ATA:

28

Type Certificate:

A-236

Subject:

Fuel – Engine Feed Check Valve Failures

Applicability:

Airbus Canada Limited Partnership (ACLP) (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:

As indicated below, unless already accomplished.

Background:

There have been multiple in-service failures of engine feed check valves, which have resulted in fuel imbalance conditions in-flight. Investigation has determined that the engine feed check valve is subject to abnormal wear out failures due to a severe operating environment in the engine fuel feed line. In the event of a failure of the check valve, flapper valve assembly items can become dislodged and contaminate the fuel system, potentially resulting in severe fuel imbalance or loss of fuel flow to the engine.

This AD requires an initial and repetitive replacement of the left and right-side engine feed check valves at an interval which will reduce in-service failures. This AD is considered interim action and further AD action may follow.

Corrective Actions:

Before accumulating 4000 hours air time from the effective date of this AD, and thereafter at intervals not to exceed 3000 hours air time, remove the left and right-side engine feed check valves from service and replace with new engine feed check valves, in accordance with the Accomplishment Instructions of Airbus Canada Service Bulletin BD500-282018, Issue 001, dated 29 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 26 July 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.

SUPERSEDED