



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-2020-38

Effective Date:

27 October 2020

ATA:

28

Type Certificate:

A-131

Subject:

Fuel – Engine and Auxiliary Power Unit Electrical Fuel Pump Cartridge/Canister Fuel Leakage

Replacement:

Compliance with this AD cancels/supersedes AD CF-2016-32R3 mandated requirements for periodic fuel leak inspections.

Applicability:

Bombardier Inc. model CL-600-2B16 aeroplanes, serial numbers 5301 through 5665, 5701 through 5990 and 6050 through 6163.

Compliance:

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

Background:

Fuel leaks have been reported from the electrical connectors and conduits of the engine and auxiliary power unit (APU) electrical fuel pump (EFP) cartridge/canister. Until such time as the final repair for the leaks became available, as an interim mitigating action, Bombardier Inc. (BA) issued Service Bulletins (SBs) 604-28-022R3, 605-28-010R3 and 650-28-001R3, with instructions to periodically inspect and, as required, rectify the fuel leaks on affected aeroplanes. Accordingly, AD CF-2016-32R3 was issued on 22 May 2019 to mandate compliance with the aforementioned applicable SBs.

To address the root cause of the fuel leaks and to remove the periodic fuel leak inspection requirement mandated by AD CF 2016-32R3, BA has now issued SBs 604-28-024, 605-28-012 and 650-28-002. The SBs provide instructions to modify the fuel boost pump canister/cartridge conduit connections in order to eliminate the source of the fuel leaks. Incorporation of the aforementioned SBs on the affected aeroplanes, constitutes the final corrective action for the fuel leaks and results in the cancellation of AD CF-2016-32R3 that mandated periodic fuel leak inspections.

This AD mandates compliance with SBs 604-28-024, 605-28-012 and 650-28-002, as applicable, on the affected aeroplanes.

Corrective Actions:

Inspect and modify the APU and Engine EFP installation in accordance with the Accomplishment Instructions of the applicable SBs as listed in Table 1 below:

Table 1

Aeroplane Serial Number	Applicable SB
5301 through 5665	604-28-024, dated 16 June 2020 or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.
5701 through 5990	605-28-012, dated 16 June 2020 or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.
6050 through 6163	650-28-002, dated 16 June 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 13 October 2020

Contact:

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