



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) to ADs.

Number:

CF-2016-32R2

Effective Date:

6 December 2018

ATA:

28

Type Certificate:

A-131

Subject:

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

Revision:

Supersedes AD CF-2016-32R1, issued 12 October 2016.

Applicability:

Bombardier Inc. model CL-600-2B16 aeroplanes, serial numbers 5301 through 5665, 5701 through 5990 and 6050 through 6999.

Compliance:

As indicated below, 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. The Emergency AD CF-2014-17 was issued to revise the Aircraft Flight Manual that restricts the landing light operation on-ground, in order to address the potential fire hazard as a result of fuel leak from the APU EFP electrical conduit in the hot landing light compartment.

As an interim mitigating action, Bombardier Inc. issued Service Bulletins (SB) 604-28-022 and 605-28-010 with instructions to periodically inspect and, if required, rectify subject fuel leaks on affected aeroplanes. AD CF-2016-32 was issued on 29 September 2016 and subsequently revised on 12 October 2016 to mandate compliance with the aforementioned SBs, as applicable, on affected aeroplanes.

Based on AD CF-2016-32R1 compliance result and additional in-service experience, Bombardier Inc. has revised the SB 604-28-022 Accomplishment Instructions, the SB 605-28-010 effectivity and have issued a new SB 650-28-001 to inspect additional affected aeroplanes.

Revision 2 of this AD mandates compliance with Bombardier Inc. SBs 604-28-022R3, 605-28-010R3 and 650-28-001R2, as applicable on affected aeroplanes.

Corrective Actions:

A. For model CL-600-2B16 aeroplanes, serial numbers 5301 through 5665;

1. Within 600 hours air time or 12 months, whichever occurs first, from the effective date of CF-2016-32R1, dated 13 October 2016, inspect for and rectify any fuel leak from the EFP electrical wiring conduit outlet at lower body fairing area for engine EFPs and at right hand landing light compartment for APU EFP, in accordance with Bombardier Inc. SB 604-28-022R3 dated 31 August 2018 or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Compliance with SB 604-28-022R1 or SB 604-28-022R2 prior to the effective date of this AD also meets the requirement of this AD.

2. On aeroplanes that have been inspected prior to the effective date of this AD as per SB 604-28-022 basic version only, within 4 months or 150 hours air time from the effective date of this AD or 1 year from the last inspection, whichever occurs first, incorporate SB 604-28-022R3 requirements.
 3. Repeat above step A.1. Inspection/Rectification at intervals not exceeding 600 hours air time or 12 months, whichever occurs first.
- B. For model CL600-2B16 aeroplanes, serial numbers 5701 through 5990.
1. Within 600 hours air time or 12 months, whichever occurs first, from the effective date of CF-2016-32R1, dated 13 October 2016, inspect for and rectify any fuel leak from the EFP electrical wiring conduit outlet at lower body fairing area for engine EFPs and at right hand landing light compartment for APU EFP, in accordance with Bombardier Inc. SB 605-28-010R3 dated 31 August 2018 or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Compliance with SB 605-28-010R1 or SB 605-28-010R2 prior to the effective date of this AD also meets the requirement of this AD.
 2. On aeroplanes that have been inspected prior to the effective date of this AD as per SB 605-28-010 basic version only, within 4 months or 150 hours air time from effective date of this AD or 1 year from the last inspection, whichever occurs first, incorporate SB 605-28-010R3 requirements.
 3. Repeat above step B.1. Inspection/Rectification at intervals not exceeding 600 hours air time or 12 months, whichever occurs first.
- C. For model CL-600-2B16 aeroplanes, serial numbers 6050 through 6999;
1. Within 600 hours air time or 12 months, whichever occurs first, from the effective date of this AD inspect for and rectify any fuel leak from the EFP electrical wiring conduit outlet at lower body fairing area for engine EFPs and at right hand landing light compartment for APU EFP, in accordance with Bombardier Inc., SB 650-28-001R2 dated 31 August 2018 or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.
 2. On aeroplanes that have been inspected as per SB 650-28-001 basic or R1 version prior to the effective date of this AD, within 1 year from the last inspection, incorporate SB 650-28-001R2 requirements.
 3. Repeat above step C.1. Inspection/Rectification at intervals not exceeding 600 hours air time or 12 months, whichever occurs first.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Rémy Knoerr
Chief, Continuing Airworthiness
Issued on 22 November 2018

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.