



# 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) to ADs.*

**Number:**

CF-2016-28

**Effective Date:**

28 September 2016

**ATA:**

24

**Type Certificate:**

A-234

**Subject:**

Electrical Power - Fouling Between the Auxiliary Power Unit (APU) Generator Power Cables and Hydraulic Return Line

**Applicability:**

Bombardier Inc. model BD-100-1A10 aeroplanes, serial numbers 20003 thru 20635.

**Compliance:**

Within 24 months from the effective date of this AD, unless already accomplished.

**Background:**

Low clearance between the APU generator power cables and a hydraulic return line was found in the Aft Equipment Bay (AEB) on some aeroplanes in service. Absence of clearance can cause damage to the insulation of the wire, which can lead to a fault in the APU electrical system or arcing with the metallic hydraulic return line and could cause a fire in the AEB.

This AD is issued to mandate an inspection of the APU generator power cables and the hydraulic return line, and a modification of the clamp arrangement to give sufficient clearance between the power cables and the hydraulic return line.

**Corrective Actions:**

- A. For aeroplane serial numbers 20003 to 20500, inspect and modify the APU generator power cables installation in accordance with the Accomplishment Instructions of Bombardier SB 100-24-28, Basic Issue, dated 27 July 2016, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.
- B. For aeroplane serial numbers 20501 to 20635, inspect and modify the APU generator power cables installation in accordance with the Accomplishment Instructions of Bombardier SB 350-24-003, Basic Issue, dated 27 July 2016, 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 15 September 2016

**Contact:**

Adil Chaudhry, Continuing Airworthiness, Ottawa, telephone 888-663-3639, facsimile 613-996-9178 or e-mail [AD-CN@tc.gc.ca](mailto:AD-CN@tc.gc.ca) or any Transport Canada Centre.