Transport Canada / Transports Canada

TP 7245E

No. CF-2014-32 1/1

Issue Date 8 September 2014

AIRWORTHINESS DIRECTIVE

The following airworthiness directive (AD) may be applicable to an aircraft which our records indicate is registered in your name. ADs are issued pursuant to ***Canadian Aviation Regulation*** **(CAR) 521 Division X**. Pursuant to **CAR 605.84** and the further details of **CAR Standard 625, Appendix H**, the continuing airworthiness of a Canadian registered aircraft is contingent upon compliance with all applicable ADs. Failure to comply with the requirements of an AD may invalidate the flight authorization of the aircraft. Alternative means of compliance shall be applied for in accordance with **CAR 605.84** and the above-referenced **Standard**.

This AD has been issued by the Continuing Airworthiness Division (AARDG), National Aircraft Certification Branch, Transport Canada, Ottawa, telephone 613 952-4357.

Number: **CF-2014-32**

ATA: **24** **Type Certificate: A-234**

Subject: **Electrical Power – Chafing Between Wiring Harness and Hydraulic Line in Aft Equipment Bay**

Effective: **22 September 2014**

Applicability: **Bombardier Inc. model BD-100-1A10 aeroplanes, serial numbers 20003 through 20382, 20384 and 20386.**

Compliance: **Within 36 months from the effective date of this AD, unless already accomplished.**

Background: There have been multiple in-service reports of chafing found on an electrical wiring harness in the aft equipment bay. An investigation determined that the chafing was attributed to contact between the wiring harness and a neighboring hydraulic line. This chafing could cause an electrical short circuit or lead to a malfunction of the flight control system, the engine indication system, or the hydraulic power control system; which could adversely affect the continued safe operation and landing of the aeroplane.

This AD mandates the inspection, rectification as required, and modification of the wiring harness installation to ensure the correct wiring routing and a minimum clearance between the wire and the hydraulic line is maintained.

Corrective Actions: Inspect, rectify as required, and modify the wiring harness installation in accordance with the Accomplishment Instructions in Bombardier Service Bulletin (SB) 100-24-24, Basic Issue, dated 6 June 2014, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

If any damage found exceeds the repair limits specified in the Bombardier Standard Practices Manual, contact Bombardier Customer Support Engineering for an approved repair. The repair must specifically reference this AD.

Authorization: For the Minister of Transport,

ORIGINAL SIGNED BY

Derek Ferguson
Chief, Continuing Airworthiness

Contact: Robert Farinas, Continuing Airworthiness, Ottawa, telephone 613-952-4357, facsimile 613-996-9178 or e-mail AD-CN@tc.gc.ca or any Transport Canada Centre.