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| No. | CF-2002-22 | 1/2 |
| Issue Date | 22 March 2002 | |

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) 593**. 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), Aircraft Certification Branch, Transport Canada, Ottawa, telephone (613) 952-4357.

Number: **CF-2002-22**

Subject: **Bombardier CL-600-2C10 – Center Tank Fuel Line Failures**

Effective: 08 April 2002

Applicability: Bombardier CL-600-2C10 Regional Jet Series 700, serial numbers 10005 through 10039.

Compliance: As indicated below, unless already accomplished.

Background: Vibration and fuel line misalignment in the center fuel tank may result in damage to fuel line couplings and leakage of fuel into the center fuel tank. Extensive fuel leakage in the center fuel tank could result in an increase in the unusable fuel during flight.

Corrective Actions: **Part A - Applicable to aircraft S/N 10005 through 10039**

1. Within 200 hours air time of the effective date of this directive, implement the following fuel system modifications in accordance with the Accomplishment Instructions of Bombardier Alert Service Bulletin A670BA-28-007 dated 12 March 2002 or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada:
 - A. install new brackets P/Ns KBA670-62010-1 and KBA670-62010-2 and attach the ejectors with p-clamps;
 - B. replace couplings (four in total) P/N B0305025A24 with couplings P/N B0305072-24DE; and
 - C. relocate brackets P/N CC670-62278-1 and CC670-62278-2.

Part B - Applicable to aircraft S/N 10005 through 10036

2. Within 400 hours air time of the effective date of this directive, carry out the following in accordance with the Accomplishment Instructions of Bombardier Alert Service Bulletin A670BA-28-005 Revision B dated 21 March 2002 or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.
 - A. inspect the motive flow lines and fuel feed lines for misalignment and wear; and
 - B. replace any parts worn beyond limits and correct any misalignment before further flight.

3. Inspections and rectification work completed in accordance with Bombardier Alert Service Bulletin A670BA-28-005 dated 08 February 2002 or Revision A dated 12 March 2002 also meet the requirements of Part B of this directive.

Authorization: For Minister of Transport



B. Goyaniuk
Chief, Continuing Airworthiness

Contact: Mr. Ian Mc Lellan, Continuing Airworthiness, Ottawa, telephone (613) 952-4362, facsimile (613) 996-9178 or e-mail mclelli@tc.gc.ca or any Transport Canada Centre.