



No.	<b>CF-2003-12</b>	1/1
Issue Date	7 May 2003	

# 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-2003-12
- Subject:** Bombardier CL-600-2B19 "Regional Jet" - Aft fuselage frame at fuselage station (FS) 640
- Effective:** 20 June 2003
- Applicability:** Bombardier Inc. Model CL-600-2B19 "Regional Jet" aircraft, serial numbers 7003 through 7999
- Compliance:** When indicated, unless already accomplished.
- Background:** Cracks on the frame and reinforcement angles at FS640 have been discovered on a number of CRJ aircraft in service. Failure of this frame could degrade the structural integrity of the airplanes.
- Corrective Actions:**
1. Initially, in accordance with the following schedule:
    - (a) For aircraft that have accumulated 7,500 flight cycles or less:
      - Prior to exceeding 8,600 flight cycles; or
    - (b) For aircraft that have exceeded 7,500 flight cycles:
      - Within 1,100 flight cycles after the effective date of this directive:

Perform a detailed visual inspection to detect cracking of the left side and right side frame and reinforcement angle at FS640 between stringer 9 and stringer 12, in accordance with Part A of the Accomplishment Instructions of Bombardier Service Bulletin 601R-53-061, Revision B, dated 20 February 2003, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.
  2. Subsequently, at intervals not exceeding 1,100 flight cycles, repeat the inspection detailed in paragraph 1 above.
  3. Within 30 days after each inspection, report the results to Bombardier Aerospace via the Bombardier Technical Help Desk.
  4. If the inspection called up in paragraph 1 or 2 above detected any crack, remove the reinforcement angle and perform a detailed visual inspection of the frame and skin doubler in accordance with Part B of the Accomplishment Instructions of Bombardier Service Bulletin 601R-53-061, Revision B, dated 20 February 2003, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada. Repair any crack found prior to further flight. Contact Bombardier Aerospace for approved repair instructions.
  5. New limitations or inspection requirements specified in the approved repairs obtained from Bombardier Aerospace after the effective date of this directive will supersede the inspection requirements of this directive.

**Authorization:** For Minister of Transport

Robin Lau  
Acting Chief, Continuing Airworthiness

**Contact:** Mr. Philip Tang, Transport Canada, Continuing Airworthiness, Ottawa, telephone (613) 952-4379, facsimile (613) 996-9178 or e-mail tangp@tc.gc.ca or any Transport Canada Centre.