



No.	1/1
CF-2001-35R1	
Issue Date	
27 September 2001	

# 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-2001-35R1
- Subject:** Bombardier CL-600-2B19 "RJ" - Replacement of Fasteners on Main Windshields
- Effective:** 31 October 2001
- Applicability:** Bombardier CL-600-2B19 "Regional Jet", serial numbers 7003 and subsequent, which are equipped with windshields (P/Ns 601R33033-1, -2, -5, -6, -9 and -10) which have accumulated less than 2500 flight cycles on the effective date of this directive.
- Revision:** Supersedes Airworthiness Directive (AD) CF-2001-35 dated 21 September 2001.
- Compliance:** Within 12 months after the effective date of this directive, unless already accomplished.
- Background:** Since windshields are cracking in significant numbers, airplane flight manual abnormal procedures or aircraft emergency descents are being accomplished at an excessive frequency. This exposes the aircraft and its occupants to unacceptable risks.
- An examination of cracked windshields has shown that most failures are caused by stress concentration at the windshield's lower forward corner. Analysis and testing has shown that the stress concentration can be reduced, and thus the windshield service life improved by the installation of reduced shank fasteners in the windshield's lower forward corner. This revision has been issued to correct the part number of the placard listed in paragraph A below.
- Corrective Actions:** Accomplish the following in accordance with the Accomplishment Instructions of Bombardier Service Bulletin (SB) 601R-56-004, dated 16 August 2001, or later revisions approved by the Director, Aircraft Certification, Transport Canada.
- Note:** It has been determined that the risk of windshield failure is higher for windshields with low flight cycles. Therefore, it is recommended that this directive be first accomplished on windshields with the least number of flight cycles.
- A. Inspect the aft edge of the left and right main windshields to determine whether a placard (P/N CSB-NP-139321-002-1) is installed.
- For windshields equipped with this placard, no further action is required.
- B. Any windshield not equipped with a placard per paragraph A above must be modified by replacing nine of the existing hi-lok pins installed in the lower forward corner of the windshield, with reduced shank diameter hi-lok pins.
- Authorization:** For Minister of Transport
- Bohdan Goyaniuk*
- B. Goyaniuk  
Chief, Continuing Airworthiness
- Contact:** Mr. Peter von Moos, Continuing Airworthiness, Ottawa, telephone (613) 952-4428, facsimile (613) 996-9178 or e-mail vonmoop@tc.gc.ca or any Transport Canada Centre.