



No.	CF-2007-17	1/2
Issue Date	04 September 2007	

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-2007-17
- Subject:** Fuel System Safety - Lack of Sealant on Collector Fuel Tank Bolts and Transfer Ejector Pumps
- Effective:** 24 September 2007
- Applicability:** Bombardier Inc. Model CL-600-2B19 aircraft, serial numbers 7003 through 7067 and 7069 through 7924.
- Compliance:** Within 5000 hours air time after the effective date of this directive, unless already accomplished.
- Background:** Bombardier Aerospace has completed a system safety review of the CL-600-2B19 aircraft fuel system against new fuel tank safety standards, introduced in Chapter 525 of the Airworthiness Manual through Notice of Proposed Amendment (NPA) 2002-043. The identified non-compliances were assessed using Transport Canada Policy Letter No. 525-001 to determine if mandatory corrective action is required.

The assessment showed that sealant has not been applied to bolts on the collector fuel tanks or the transfer ejector fuel pumps. Lack of sealant on the above-noted locations, if not corrected, could result in arcing and potential ignition source inside the fuel tank during lightning strikes and consequent fuel tank explosion. To correct the unsafe condition, this directive mandates the application of sealant to the bolts that attach various fittings on the collector fuel tanks, to the edges of the transfer ejector pumps and to the bolts that attach the transfer ejector pump to the transfer ejector pump casing.

Corrective Actions: **Application of Sealant to the Collector Fuel Tank Bolts (Applicable to Aircraft Serial Numbers 7003 through 7067 and 7069 through 7797)**

1. Apply sealant to bolts on the collector fuel tanks according to the Accomplishment Instructions of Revision A of Bombardier Service Bulletin (SB) 601R-28-051, dated 30 March 2005, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Note: Application of sealant prior to the effective date of this directive according to the original issue of the above-noted SB satisfies the requirements of paragraph 1 of this directive.

Application of Sealant to the Transfer Ejector Pumps (Applicable to Aircraft Serial Numbers 7003 through 7067 and 7069 through 7924)

2. Carry out a general visual inspection of the left and right transfer ejector pumps for the presence of a fillet seal on the edge of the pumps and sealant on the bolts, according to the Accomplishment Instructions of Revision A of Bombardier SB 601R-28-060, dated 30 March 2005, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Pursuant to **CAR 202.51** the registered owner of a Canadian aircraft shall, within seven days, notify the Minister in writing of any change of his or her name or address.

To request a change of address, contact the Civil Aviation Communications Centre (AARC) at Place de Ville, Ottawa, Ontario K1A 0N8, or 1-800-305-2059, or www.tc.gc.ca/civilaviation/communications/centre/address.asp

3. If sealant is missing from the edge of the transfer ejector pump or from any of the bolts, prior to further flight, apply sealant to the affected areas according to the Accomplishment Instructions of Revision A of Bombardier SB 601R-28-060, dated 30 March 2005, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Note: Inspection and application of sealant prior to the effective date of this directive according to the original issue of SB 601R-28-060 satisfy the requirements of paragraph 2 and 3 of this directive.

Authorization: For Minister of Transport, Infrastructure and Communities

B. Goyaniuk
Chief, Continuing Airworthiness

Contact: Mr. Philip Tang, Continuing Airworthiness, Ottawa, telephone (613) 952-4365, facsimile (613) 996-9178 or e-mail tangp@tc.gc.ca or any Transport Canada Centre.