



No.	CF-2001-47	1/2
Issue Date	11 December 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-2001-47

Subject: Bombardier CL-600-2B19 "RJ" – Center Tank Fuel Transfer Shutoff Valve

Effective: 14 December 2001

Applicability: Bombardier CL-600-2B19 "Regional Jet" aircraft, serial numbers 7003 and subsequent.

Compliance: When indicated, unless already accomplished.

Background: During bench testing of the center tank fuel transfer shutoff valve, it was found that, if the valve fails, it could overheat to a temperature that exceeds the fuel hot surface ignition point.

Corrective Actions:

- A. Applicable to all affected aircraft.
 1. Within 24 hours calendar time after the effective date of this directive, open and install a lock ring on applicable circuit breakers in accordance with the Accomplishment Instructions of the Bombardier service bulletin A 601R-28-045, Revision A, dated 7 December 2001, or later revision approved by the Chief, Continuing Airworthiness, Aircraft Certification, Transport Canada.
 2. Within 4 days after the effective date of this directive, disconnect and stow the electrical wires from the circuit breakers opened per paragraph A.1 above, in accordance with the Accomplishment Instructions of the above noted service bulletin.
 3. Within 45 days after the effective date of this directive, accomplish the following:
 - (a) Determine the part number of the fuel transfer shutoff valves installed in the center fuel tank. Replace any valve found with part number 601R62256-5 with a valve part number 601R62256-3.
 - (b) If it has been verified that only valves with part number 601R62256-3 are installed, reconnect the circuit breaker wires that have been disconnected and stowed in accordance with paragraph A.2 above, remove lock rings and reset the associated circuit breakers.
- B. Dispatch of aircraft with inoperative fuel transfer shutoff valves.

Operation of the affected aircraft is permitted with the center fuel tank full and with both fuel transfer shutoff valves inoperative (applicable circuit breakers opened in accordance with paragraph A.1 above), subject to the restrictions imposed with paragraph C of this directive, if applicable.

The Flight Crew must be briefed that the wing tanks will indicate full until the center tank is empty and LR X-FER SOV message will indicate on ground, may disappear during climb and will remain on during the remainder of the flight.

- C. Applicable to aircraft with serial numbers 7003 through 7109.
1. Concurrent with the accomplishment of paragraph A.1 above:
 - (a) Determine whether the fuel vent system has been modified in accordance with the requirements of Airworthiness Directive CF-2001-31 (Bombardier service bulletin 601R-28-024, Revision A, dated 11 November 1998).
 - (b) Aircraft, which have not incorporated the above, mentioned fuel vent system modification must operate with less than 200 pounds of fuel in the center fuel tank. Amend the limitation section of the Airplane Flight Manual (AFM) to reflect this limit. This amendment may be accomplished by inserting a copy of this directive into the AFM limitation section.
 2. After the applicable circuit breakers have been reset in accordance with paragraph A.3.b above, the center tank 200-pound fuel limitation may be removed from the AFM.

Authorization: For Minister of Transport



for 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.

Other: This directive was originally issued 11 December 2001 by facsimile and other electronic means.