



No.	CF-2002-35R2	1/2
Issue Date	6 January 2005	

# 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-2002-35R2
- Subject:** BOMBARDIER CL-600-2B19 – Aileron Stiffness
- Effective:** 30 January 2005
- Revision:** Supersedes Airworthiness Directive (AD) CF-2002-35R1 dated 16 August 2002
- Applicability:** All Bombardier (Canadair) CL-600-2B19 “Regional Jet” aircraft
- Compliance:** As indicated below, unless already accomplished.

**Background:** A significant number of reports of aileron control stiffness have been received following climb to altitude after takeoff from a contaminated runway or during heavy rain. In every case, the aileron control stiffness disappeared upon descent to lower altitude and the aircraft have landed safely. The aircraft that have encountered aileron control stiffness had all accumulated in excess of 5000 hours airtime when the problem appeared.

Revision 1 increased the minimum altitude for commencement of the aileron control checks that were introduced under this directive.

Revision 2 is being issued to introduce additional maintenance tasks for the aileron control system, which terminate the requirement for aileron control checks following departure from a wet or contaminated runway.

**Corrective Action:** **Part A – AFM Amendment**

Within 14 days of 19 August 2002, accomplish the following:

1. Amend the Aircraft Flight Manual (AFM) by inserting Temporary Revision (TR) RJ/109-2 dated 9 August 2002. TR RJ/109-2 introduces the following:
  - (a) An amendment to Emergency Procedures for aileron system jams. This change is applicable to all aircraft.
  - (b) An aileron control check procedure to the Limitations Section. This change is applicable to aircraft that have accumulated 5000 hours airtime or more, since new.
2. Insert a copy of this directive in each AFM.
3. Advise all flight crews on the changes introduced through the AFM TR.

### **Part B – Maintenance Program Changes**

1. Within 60 days of the effective date of this directive, amend the Transport Canada approved maintenance schedule by incorporating the following Tasks as introduced by Temporary Revision 2B-2068 to the Part 2 of the Maintenance Requirements Manual, Appendix B – Airworthiness Limitations:

- (a) R22-11-A083-01 Lubrication of Aileron Autopilot Servo and Servo Mount engage clutch faces;
- (b) R27-00-A053-01 Discard of the Aileron Control Pulleys (at specified locations only);
- (c) R27-11-A082-01 Lubrication of the Aileron Control Cables at the Wing Pulley interfaces; and,
- (d) R27-11-A082-02 Lubrication of the Aileron Rear Quadrant and Trim Lever Bearings.

2. For aircraft that exceed the Task Threshold for these new tasks, initial compliance with the Maintenance Tasks shall be carried out in accordance with the applicable Phase-In Schedule detailed in TR 2B-2068 of the MRM.

### **Part C – Termination of Aileron Control Checks**

1. After initial compliance with the applicable new Maintenance Tasks, introduced in Part B of this directive, has been achieved:

- (a) Amend all copies of AFM by inserting TR RJ/142, dated 16 August 2004, or later approved changes to this AFM TR;
- (b) Remove the copy of the AD CF-2002-35R1 inserted in each AFM in accordance with Part A.2. of this directive; and
- (c) Brief flight crews that there is no longer a requirement to perform aileron control checks following takeoff from a wet or contaminated runway.

**Authorization:** For Minister of Transport



For B. Goyaniuk  
Chief, Continuing Airworthiness

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