



No.	CF-2006-04	1/2
Issue Date	22 March 2006	

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-2006-04
- Subject:** Aileron Control System - Reduction in Task Interval for Backlash Check
- Effective:** 28 April 2006
- Applicability:** Bombardier Inc. Model CL-600-2B19, all serial numbers.
- Compliance:** As indicated below, unless already accomplished.
- Background:** A significant data sample acquired from in-service aircraft, has identified that, in approximately 19 percent of the cases, the aileron backlash wear limits are being exceeded when checked at the inspection interval of 4000 hours air time. Exceeding the backlash in both aileron PCUs, if accompanied by the failure of the flutter damper, could result in aileron vibration/flutter and reduced controllability of the aircraft.
- Corrective Actions:**
- A. Within 60 days of the effective date of this directive, revise the Transport Canada (TC) approved Maintenance Schedule by:
 - 1. Amending the Certification Maintenance Requirements of the Maintenance Requirements Manual, CSP A-053, Part 2, Airworthiness Requirements, in accordance with the changes introduced by TR 2A-20, dated 13 March 2006. These include:
 - (a) Added Task C27-10-105-06 - Functional Check of each aileron PCU internal leakage; and
 - (b) Revised Task C27-10-105-05 - Removes aileron PCU check.
 - 2. Revising Task No. 27-11-00-09 – Functional check of aileron control system – Revise Task Interval for aileron backlash check to 2000 hours air time vice previous Task Interval of 4000 hours air time. Revision to Task 27-11-00-09 was introduced under MRB report TR 1-2-33 and incorporated in MRB Revision 10 dated 27 May 2005. The 2000 hours air time Task Interval cannot be escalated.
 - B. The following phase-in schedule may be used for the initial 2000-hour air time aileron backlash check:
 - 1. For aircraft that, upon the effective date of this directive, have accumulated more than 1000 hours air time but less than 3000 hours air time, since the last aileron backlash check, complete the next aileron backlash check within 1000 hours air time of the effective date of this directive; and
 - 2. For aircraft that, upon the effective date of this directive, have accumulated 3000 hours air time or more since the last aileron backlash check, complete the next aileron backlash check before accumulating 4000 hours air time from the last aileron backlash check.

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



- C. This directive recognizes that Operators may not, when this directive becomes effective, have access to the ground support equipment necessary to comply with the revised check procedure for CMR Task C27-10-105-06 - Functional Check of each aileron PCU internal leakage. For an interim period of 12 months from the effective date of this directive, it is permissible for operators to continue to comply with the aileron PCU internal leakage check by means of procedures published in AMM 27-11-00-220- 803 at repeat interval of 4000 hours air time.

Authorization: For Minister of Transport

R. William Taylor
for B. Goyaniuk
Chief, Continuing Airworthiness

Contact: Mr. Ian McLellan, Continuing Airworthiness, Ottawa, telephone 613 952-4362, facsimile 613 996-9178 or e-mail mclelli@tc.gc.ca or any Transport Canada Centre.