



No.	CF-2009-49R1	1/2
Issue Date	21 January 2010	

# 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) 521 Division X**. 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), National Aircraft Certification Branch, Transport Canada, Ottawa, telephone 613 952-4357.

- Number:** CF-2009-49R1
- Subject:** Wing Leading Edge Thermal Switches and Wing Anti-Ice Duct Piccolo Tubes – Airworthiness Limitation Tasks
- Effective:** 25 January 2010
- Revision:** Supersedes Airworthiness Directive (AD) CF-2009-49 issued 17 December 2009.
- Applicability:** Bombardier Inc. Models:
- CL-600-2A12 - Serial Numbers 3001 through 3066 [Post Service Bulletin 601-0590 only]
  - CL-600-2B16 - Serial Numbers 5001 through 5194 [Post Service Bulletin 601-0590 only]
  - CL-600-2B16 - Serial Numbers 5301 through 5665
  - CL-600-2B16 - Serial Numbers 5701 and subsequent
- Compliance:** As indicated below, unless already accomplished.
- Background:** During flight-testing of a wing anti-ice piccolo tube containing a deliberate small breach, it was determined that the wing leading edge thermal switches were not detecting the consequent bleed leak at the design threshold. As a result, new Airworthiness Limitation tasks, consisting of a functional test of the wing leading edge thermal switches and an inspection of the wing anti-ice duct piccolo tubes, have been introduced in order to limit exposure to dormant failure of the switches in the event of piccolo tube failure, which could potentially compromise the structural integrity of the wing leading edge and the effectiveness of the wing anti-ice system. This directive mandates the revision of the approved maintenance schedule to include these new tasks, including phase-in schedules.
- This revision clarifies the applicability of the directive for CL-600-2A12 aircraft, serial numbers 3001 through 3066, and for CL-600-2B16 aircraft, serial numbers 5001 through 5194. The directive is only applicable to these aircraft if Bombardier Service Bulletin (SB) 601-0590 [Scheduled Maintenance Instructions (MSG-3) Derived - Qualification] has been incorporated. There is no change required to the approved maintenance schedule if SB 601-0590 has not been incorporated.
- Corrective Actions:** Within 30 days after the effective date of this directive:
- Revise the Transport Canada approved maintenance schedule by incorporating the thermal switch functional test and piccolo tube inspection requirements (task numbers identified below) contained in the applicable Revision to the Time Limits/Maintenance Checks Manual as follows:
- PSP 601-5 - Time Limits/Maintenance Checks, Revision 38, dated 19 June 2009, Task Numbers 30-11-00-101 and 30-11-00-102.

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](http://www.tc.gc.ca/civilaviation/communications/centre/address.asp)



PSP 601A-5 - Time Limits/Maintenance Checks, Revision 34, dated 19 June 2009,  
Task Numbers 30-11-00-101 and 30-11-00-102.

CL-604 - Time Limits/Maintenance Checks, Revision 13, dated 12 August 2009,  
Task Numbers 30-11-00-101 and 36-21-00-101.

CL-605 - Time Limits/Maintenance Checks, Revision 1, dated 12 August 2009,  
Task Numbers 30-11-00-101 and 36-21-00-101.

Notes:

1. The above referenced tasks contain phase-in schedules, as necessary, for aircraft that have exceeded the initial task interval.
2. Compliance with superseding Temporary Revisions or later revisions of the above Time Limits/Maintenance Checks Manuals, approved by Transport Canada, also satisfies the requirements of this directive.

**Authorization:** For Minister of Transport, Infrastructure and Communities

ORIGINAL SIGNED BY

Philip Tang for  
Derek Ferguson  
Chief, Continuing Airworthiness

**Contact:** Mr. Richard Topham, Continuing Airworthiness, Ottawa, telephone 613-952-4357, facsimile 613-996-9178 or e-mail CAW WEB Feedback@tc.gc.ca or any Transport Canada Centre.