



No.	CF-2007-11	1/1
Issue Date	09 August 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-2007-11
- Subject:** Flight Compartment - Utility and Observer Lights
- Effective:** 31 August 2007
- Applicability:** Bombardier Inc. DHC-8 Aircraft Models 102, 103, 106, 201, 202, 301, 311, 314 and 315, Serial Numbers 003 through 639.

Bombardier Inc. DHC-8 Aircraft Models 400, 401 and 402, Serial Numbers 4003, 4004, 4006 and 4008 through 4149.
- Compliance:** Within 18 months after the effective date of this directive, unless already accomplished.
- Background:** Several cases have been reported where the pilot, co-pilot or observer utility light system has failed, resulting in a burning smell within the cockpit. An investigation has revealed that, due to the orientation and location of the carbon molded potentiometers used to control the intensity of the light, the potentiometers can fail and overheat in such a way that burning of the ceiling panel and the associated insulation blanket could occur. This could lead to the presence of smoke in the cockpit, requiring that the pilots carry out the appropriate emergency procedure.
- Corrective Actions:**
- A. Applicable to DHC-8 Aircraft Models 102, 103, 106, 201, 202, 301, 311, 314 and 315**
 1. Install Modsum 8Q101603 to replace the affected carbon molded resistive element potentiometers with wire-wound type potentiometers, for both the pilot and co-pilot utility lights. Bombardier Service Bulletin (SB) 8-33-53, original issue dated 1 December 2006, Revision A dated 14 March 2007, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada, provide instructions for incorporating Modsum 8Q101603.
 - B. Applicable to DHC-8 Aircraft Models 400, 401 and 402**
 1. Install Modsum 4-126381 to replace the affected carbon molded resistive element potentiometers with wire-wound type potentiometers, for the pilot, co-pilot and observer utility lights. Bombardier Service Bulletin (SB) 84-33-10, original issue dated 1 December 2006, Revision A dated 14 March 2007, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada, provide instructions for incorporating Modsum 4-126381.
- Authorization:** For Minister of Transport, Infrastructure and Communities
- B. Goyaniuk
Chief, Continuing Airworthiness
- Contact:** Mr. Anthony Wan, Continuing Airworthiness, Ottawa, telephone (613) 952-4410, facsimile (613) 996-9178 or e-mail wana@tc.gc.ca or any Transport Canada Centre.

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

