



No.	CF-2011-34	1/1
Issue Date	16 August 2011	

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- 2011-34

Subject: Ice Protection System – Failure of the Timer and Monitor Unit

Effective: 31 August 2011

Applicability: Bombardier Inc. DHC-8 Aeroplane Models 400, 401 and 402, serial numbers 4001 and subsequent, equipped with Aerazur TMU, Part Number 4100S018-06.

Compliance: As indicated below, unless already accomplished.

Background: There have been multiple reports of in-service incidents where the automatic deicing mode became unavailable due to a failure of the Timer and Monitor Unit (TMU).

Investigation has revealed that the failures were attributed to overstressed capacitors installed in the circuit board of the TMU “Module 300” power supply. The failure of the capacitors leads to failure of the TMU “Module 300” power supply and subsequent loss of the automatic deicing mode.

This directive mandates the replacement of the TMU, part number (P/N) 4100S018-06, with a new improved unit, P/N 4100S018-07.

- Corrective Actions:**
1. Within 3000 hours air time or 18 months, from the effective date of this directive, whichever occurs first, incorporate Bombardier ModSum 4-126525. Bombardier Service Bulletin (SB) 84-30-14, Initial Issue, dated 20 May 2011, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada, provides approved instructions for incorporating ModSum 4-126525.
 2. As of the effective date of this directive, installation of a TMU, P/N 4100S018-06, is not permitted on any aeroplanes.

Authorization: For the Minister of Transport, Infrastructure and Communities

ORIGINAL SIGNED BY

Derek Ferguson
 Chief, Continuing Airworthiness

Contact: Mr. Robert Farinas, Continuing Airworthiness, Ottawa, telephone 613-952-4357, facsimile 613-996-9178 or e-mail CAWWEBFeedback@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

