AD Number: **CF-2015-04**
Issue Date: **17 March 2015**

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-2015-04 **Effective Date:** 31 March 2015

ATA: 34 **Type Certificate:** A-234

Subject: Navigation – Pitot-Static Probe Heater Failure

Applicability: Bombardier Inc. model BD-100-1A10 aeroplanes, serial numbers 20003 to 20500.

Compliance: Within 24 months from the effective date of this AD, unless already accomplished.

Background: There have been several reports where the pitot-static probe heater came on and remained on regardless of the heater control selected position. Investigation determined that the root cause is a short circuit between the heater element and the metal sheath. If not corrected, this condition may degrade the heating, resulting in erroneous Airspeed Indication when flying in icing condition.

This AD mandates the replacement of the pitot-static probes with a redesigned probe which will prevent this failure mode.

Corrective Actions:

Remove and replace the left and right pitot-static probes with the new design pitot-static probes, part numbers (P/N) 0856WC3 and 0856WC4 respectively. Bombardier Aerospace Service Bulletin 100-34-38, Basic Issue, dated 9 January 2014, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada, provides approved instructions for replacing the pitot-static probes.

As of the effective date of this AD, it is prohibited for anyone to install pitot-static probes with P/Ns 0856WC1 or 0856WC2.

Authorization: For the Minister of Transport,

ORIGINAL SIGNED BY

Derek Ferguson
Chief, Continuing Airworthiness

Contact: Gordanko Jeremic, Continuing Airworthiness, Ottawa, telephone 613-952-4357, facsimile 613-996-9178 or e-mail AD-CN@tc.gc.ca or any Transport Canada Centre.