



AIRWORTHINESS DIRECTIVE

This Airworthiness Directive (AD) is issued pursuant to Canadian Aviation Regulation (CAR) 521.427. No person shall conduct a take-off or permit a take-off to be conducted in an aircraft that is in their legal custody and control, unless the requirements of CAR 605.84 pertaining to ADs are met. Standard 625 - Aircraft Equipment and Maintenance Standards Appendix H provides information concerning alternative means of compliance (AMOC) to ADs.

Number:

CF-2015-24

Effective Date:

24 August 2015

ATA:

30

Type Certificate:

A-142

Subject:

Ice and Rain Protection - Engine Air Intake Heater Thermostats Corrosion

Applicability:

Bombardier Inc. DHC-8 models -400, -401 and -402 aeroplane serial numbers 4001 through 4184.

Compliance:

As indicated below, unless already accomplished.

Background:

A malfunctioning Engine Air Intake Heater has been discovered with corrosion on the thermostats and the aeroplane skin where the thermostats are installed. The two thermostats are installed directly under the flight compartment floor along the aeroplane centre line where moisture accumulation and/or migration may occur, which can cause corrosion of the thermostats. Corrosion within the thermostats may seize the switch mechanism open, preventing the activation of the associated Engine Air Intake Heater. Failure of the Engine Air Intake Heater to activate may pose a safety risk to the aeroplane in icing conditions.

Bombardier has issued Service Bulletin (SB) 84-30-10 to inspect, replace if required and relocate the thermostat assembly to rectify this problem.

Corrective Actions:

Within 2000 hour air time or 12 months, whichever occurs first, from the effective date of this AD, inspect, rectify as required, and modify the Engine Air Intake Heater Thermostat installation, in accordance with Bombardier SB 84-30-10 Revision E dated 10 October 2014, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Previous compliance with SB 84-30-10 Revision A, B, C or D meets the mandated requirements of this AD.

For aeroplanes that have previously complied with the original issue of SB 84-30-10, dated 7 September 2007, it is only necessary to replace and relocate the thermostat location label in accordance with SB 84-30-10 Revision E accomplishment instructions.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Philip Tang
Acting Chief, Continuing Airworthiness
Issued on 10 August 2015

Contact:

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