



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-2016-04

Effective Date:

1 February 2016

ATA:

30

Type Certificate:

A-142

Subject:

Ice and Rain Protection – Pitot and Static System – Pitot Probe Heater Circuit Breaker Tripping During Adverse Environmental Conditions

Applicability:

Bombardier Inc. DHC-8 aeroplanes, models -102, -103, -106, -201, -202, -301, -311, -314 and -315, serial numbers 003 through 672.

Compliance:

Within 5000 hours air time or 60 months, whichever occurs first, from the effective date of this AD, unless already accomplished.

Background:

There have been several occurrences of loss of airspeed data on both pilot and co-pilot Airspeed Indicators (ASI) due to the accumulation of ice on the pitot probes. Subsequent investigation revealed that the build up of ice on the pitot probes was due to inoperative pitot probe heaters. When flying in heavy precipitations, the increased heat required by the pitot probe to clear ice build up may result in a current demand in excess of the trip point of the associated circuit breakers (CB). Under this condition, the CB may trip and cut power supply to the heater. If not corrected, the loss of airspeed data may result in the crew not being able to control the aeroplane's airspeed.

This AD is issued to mandate the replacement of the existing CBs with CBs that have higher trip points.

Corrective Actions:

Replace the existing CBs in both the left and right side pitot heater system in accordance with the accomplishment Instructions of the Bombardier Service Bulletins (SB) 8-30-39 and 8-30-40, Initial Issues, dated 11 November 2015, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

The above mentioned SBs may be incorporated at different times, but both SBs must be accomplished within the compliance time of this AD as specified above.

Aeroplanes that incorporated Modsum IS8Q3000004 also meet the requirements of this AD.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Rémy Knoerr
Chief, Continuing Airworthiness
Issued on 18 January 2016

Contact:

Gordanko Jeremic, Continuing Airworthiness, Ottawa, telephone 1-888-663-3639, facsimile 613-996-9178 or e-mail AD-CN@tc.gc.ca or any Transport Canada Centre.