



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-2017-18

Effective Date:

9 June 2017

ATA:

30

Type Certificate:

A-142

Subject:

Windows – Windshield Cracking

Applicability:

Bombardier Inc. model DHC-8-400, -401 and -402 aeroplanes, serial numbers 4001 through 4524.

Compliance:

As indicated below, unless already accomplished.

Background:

There have been numerous reports of arcing and smoke emanating from the windshields. Review of these incidents revealed that the windshield heater terminal lugs tend to loosen over time. Loose terminal lugs could create sparks that lead to burning of the lugs and, due to the excessive heat, cracking of the windshields. If not corrected, this condition could cause a loss of cabin pressure resulting in an emergency descent.

Corrective Actions:

1. Within 30 days from the effective date of this AD, incorporate the Temporary Revision (TR) Maintenance Review Board (MRB) - 0099 dated 9 December 2016, General Visual Inspection of the windshield Moisture Seal, into Part 1 of the DHC 8-400 Maintenance Requirements Manual (MRM), PSM 1-84-7. Compliance with superseding TR or later revisions of the MRM also meet the requirements of this AD.
2. Within 1600 hours air time or 12 months, whichever occurs first, from the effective date of this AD, perform the initial General Visual Inspection of the Windshield Moisture Seal. MRB Task No. 561001E201 or later revisions of this task approved by Transport Canada, provides the approved instructions for incorporation of this task.
3. Within 8000 hours air time or 60 months, whichever occurs first, from the effective date of this AD, re-torque the windshield heater terminal lugs and apply the Humiseal to the screw heads of the windshield heater. Bombardier Service Bulletin 84-30-16, dated 31 March 2016, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada, provides the approved instructions for re-torquing of the terminal lug screws and the Humiseal application.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Rémy Knoerr

Chief, Continuing Airworthiness

Issued on 26 May 2017

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.