



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-2017-30

Effective Date:

13 September 2017

ATA:

52

Type Certificate:

A-142

Subject:

Doors – Forward Right Hand Type I Emergency Exit Hardware Corrosion

Applicability:

Bombardier Inc. model DHC-8-301, -311, -314 and -315 aeroplanes, serial numbers 100 through 672.

Compliance:

As indicated below, unless already accomplished.

Background:

An operator has reported the inability to open the Forward Right Hand Type I emergency exit door with either the internal or external handle during maintenance. Investigation has determined that the handle was found to be jammed due to corroded center and lower shaft ball bearings. Condensation has been found to be the root cause of the Forward Right Hand Type I emergency exit door hardware corrosion. Other Forward Right Hand Type I emergency exit door ball bearings are also susceptible to corrosion. Inability to open the Forward Right Hand Type I emergency exit door during an emergency evacuation may impede aircraft egress.

This AD mandates the inspection for corrosion and replacement, as required, of all Forward Right Hand Type I emergency exit door ball bearings, and the application of corrosion inhibiting compound (CIC), to ensure that the Forward Right Hand Type I emergency exit door can be opened when required.

Corrective Actions:

Part I - Transport Canada Approved Maintenance Schedule Revision:

Within 60 days from the effective date of this AD, revise the Transport Canada approved maintenance schedule by incorporating Maintenance Review Board Task 5220/12 (Servicing of Forward RH Emergency Exit Mechanisms) of the DHC-8-300 Series Maintenance Program Manual PSM 1-83-7.

Part II - Inspection and Rectification:

Within 5000 hours air time or 36 months, whichever occurs first, from the effective date of this AD, inspect all ball bearings of the Forward Right Hand Type I Emergency Exit for corrosion, replace bearings as required, and apply CIC, in accordance with the initial issue of Bombardier Service Bulletin 8-52-65, dated 26 July 2017, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Rémy Knoerr
Chief, Continuing Airworthiness
Issued on 30 August, 2017

Contact:

Hilary Ross, 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.