



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) with ADs.

Number:

CF-2021-08

Effective Date:

23 March 2021

ATA:

28

Type Certificate:

A-142

Subject:

Fuel System – Fuel Terminal – High Level Sensor Terminal Screw in Contact with Access Panel

Applicability:

De Havilland Aircraft of Canada Limited (formerly Bombardier Inc.) model DHC-8-401 and -402 aeroplanes, serial numbers 4001 and 4003 through 4628.

Compliance:

As indicated below, unless already accomplished.

Background:

It has been discovered that as a result of build tolerances, there may be a hard contact between the #2 top high level sensor (HLS) terminal screw head and the #6 outer wing fuel access panel stiffener flange. This condition, if not corrected, may result in arcing during a lightning strike leading to a potential ignition source inside the fuel tank.

This AD mandates the removal and replacement or rework of the #6 outer wing fuel access panel assembly to eliminate the potential interference with the HLS terminal screw head.

Corrective Actions:

Part I – Access Panel Replacement or Rework

Within 8000 hours air time from the effective date of this AD, remove the existing access panel and replace it with a new revised panel (paragraph A below) or rework the existing access panel (paragraph B below).

- A. Remove and replace the #6 outer wing fuel access panel assembly in accordance with Section 3.B. Part A of the Accomplishment Instructions of De Havilland Aircraft of Canada Limited (DHC) Service Bulletin (SB) 84-57-35, Revision A, dated 11 February 2021, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.
- B. Remove, rework and reinstall the #6 outer wing fuel access panel assembly in accordance with Section 3.B. Part B of the Accomplishment Instructions of DHC SB 84-57-35, Revision A, dated 11 February 2021, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Incorporation of Part A or Part B of Section 3.B. of the Accomplishment Instructions of DHC SB 84-57-35, Revision A, dated 11 February 2021, meets the requirements of Part I of this AD.

Incorporation of Part A or Part B of Section 3.B. of the Accomplishment Instructions of DHC SB 84-57-35, Initial Revision, dated 1 October 2020, also meets the requirements of Part I of this AD.

Part II – Prohibit Installation of Affected Part

As of the effective date of this AD, the #6 outer wing fuel access panel assemblies with part numbers (P/Ns) 85714233-003/-004 and 85714233-005/-006 are not eligible for installation on DHC-8-401 and -402 aeroplanes.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Rémy Knoerr
Chief, Continuing Airworthiness
Issued on 9 March 2021

Contact:

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