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-2026-51

Effective Date:

28 October 2026

ATA:

57

Type Certificate:

A-142

Subject:

Wing – Spoiler – Power Control Unit (PCU) – Attachment Bracket Separation

Applicability:

De Havilland Aircraft of Canada Limited (DHC) (formerly Bombardier Inc.) model DHC-8-102, 103, 106, 201, 202, 301, 311, 314 and 315, serial numbers 003 through 672, with Part Number (P/N) 85711455-001/003 & P/N 85711501-001/003/005 installed.

Compliance:

As indicated below, unless already accomplished.

Background:

There have been reports of cracked spoiler inboard (IB) PCU brackets on DHC-8-100/-200/-300 aeroplanes. A previous DHC Service Bulletin (SB 8-57-45) had provided instructions to replace spoiler IB PCU brackets at the 40 000 Flight Cycle (FC) interval. Since this SB was issued, more reports of cracked spoiler IB PCU brackets have been received at FC lower than in previous reports.

The spoiler IB PCU bracket has an aileron control cable running through a fairlead attached to its base. Should the spoiler IB PCU bracket crack to the point that it detaches from the wing rear spar, the aileron control cable could become jammed and the spoiler IB PCU would no longer function. This would result in loss of spoiler and aileron function, which if not corrected can lead to loss of control of the aeroplane.

To address this unsafe condition, this AD requires inspection of the left hand and right hand spoiler IB PCU bracket at a reduced threshold and reduced repeat intervals. If cracking or loose attaching fasteners are found, then the spoiler IB PCU bracket and attaching fasteners should be replaced.

Improved spoiler IB PCU brackets are currently being designed, installation of which, in accordance with a future SB will act as a terminating action to this AD.

Corrective Actions:

For the purpose of this AD, the following definitions apply:

DHC SB: DHC SB 8-57-52, Revision NC, dated 25 May 2026, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Part I – Initial Inspection

For spoiler IB PCU brackets with more than 20 000 hours air time or 20 000 FC at the effective date of this AD, within 2000 hours air time or 2000 FC, whichever occurs first, from the effective date of this AD, inspect the spoiler IB PCU brackets, in accordance with the procedure in Section B, Part A, of the Accomplishment Instructions of the DHC SB. If cracking or loose fasteners are found, perform Part II of this AD.

Part II – Spoiler IB PCU Bracket Replacement and Subsequent Inspection

A. Remove and replace the spoiler IB PCU bracket with the same P/N spoiler IB PCU bracket in accordance with Section B, Part B of the Accomplishment Instructions of the DHC SB.

B. Complete the initial inspection required by Part I of this AD within 20 000 hours air time or 20 000 FC whichever occurs first, from the installation of the replacement spoiler IB PCU bracket.

C. After the initial inspection required by Part II paragraph B of this AD, complete the repetitive inspection as detailed in Part III of this AD.

Part III – Repetitive Inspections

Repeat the inspection of the spoiler IB PCU brackets required by Part I of this AD at intervals not to exceed 2000 hours air time or 2000 FC, whichever occurs first from the initial inspection and if cracks or loose fasteners are found, perform Part II of this AD.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Jenny Young
Chief, Continuing Airworthiness
Issued on 14 October 2026

Contact:

Christopher Banken, Continuing Airworthiness, Ottawa, telephone 1-888-663-3639 or e-mail TC.AirworthinessDirectives-Consignesdenavigabilite.TC@tc.gc.ca or any Transport Canada Centre.