



# 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-2013-16R1 **Effective Date:** 26 July 2016

**ATA:** 24 **Type Certificate:** A-142

**Subject:**  
Electrical Power – Alternating Current (AC) Feeder Cable Clamps Omitted

**Revision:**  
Supersedes AD CF-2013-16, issued 14 June 2013.

**Applicability:**  
Bombardier Inc. model DHC-8-400, -401 and -402 aeroplanes, serial numbers 4035 through 4347.

**Compliance:**  
As indicated below, unless already accomplished.

**Background:**  
During production checks, it was found that the appropriate clamps required to provide positive separation between the AC feeder cables and the hydraulic line of the landing gear alternate extension were omitted. The AC feeder cable could sag and be in direct contact with the swage fitting of the landing gear alternate extension hydraulic line, resulting in chafing of the AC feeder cable. The chafed and arcing AC feeder cable could puncture the adjacent hydraulic line. In combination with the use of the alternate extension system, this could result in an in-flight fire.

The original issue of this AD was issued to mandate the incorporation of service bulletin (SB) 84-24-53 to inspect and rectify, as necessary, for proper clamp installation.

Bombardier Inc. has revised SB 84-24-53 to remove serial numbers 4001 through 4034 from the Effectivity section, as it was determined that these serial numbers are Pre-Mod MS 4M153025, which allowed sufficient space between the AC feeder cables and the landing gear alternate extension hydraulic line to not pose an in-flight fire risk. Accordingly, revision 1 of this AD is issued to revise the Applicability section to reflect the Effectivity changes in SB 84-24-53 Revision B, dated 10 September 2015.

**Corrective Actions:**  
Within 6000 hours air time or 36 months, whichever occurs first, from the effective date of the original issue of this AD (27 June 2013), perform a general visual inspection for installation of clamps between the AC feeder cables and hydraulic line, and rectify as required, in accordance with the Accomplishment Instructions of Bombardier Service Bulletin 84-24-53, Revision B, dated 10 September 2015, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Inspection and rectification in accordance with Bombardier SB 84-24-53, Initial Issue, dated 11 May 2012, or Revision A, dated 16 May 2013, prior to the effective date of this AD, meets the mandated requirements of this AD.

**Authorization:**

For the Minister of Transport,

*ORIGINAL SIGNED BY*

Philip Tang  
Acting Chief, Continuing Airworthiness  
Issued on 13 July 2016

**Contact:**

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