



# 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-2016-27

**Effective Date:**

28 September 2016

**ATA:**

25

**Type Certificate:**

A-142

**Subject:**

Equipment and Furnishings – Instrument Panel - Pilot and Co-pilot Wiring Shroud Inspection and Modification

**Applicability:**

Bombardier Inc. DHC-8-401 and DHC-8-402 aeroplanes, serial numbers 4003 and subsequent.

**Compliance:**

Within 6 months from the effective date of this AD, unless already accomplished.

**Background:**

An operator reported that the flying pilot was unable to move the rudder pedal due to an obstruction caused by the non-flying pilot's foot. The shoe belonging to the non-flying pilot was placed between the rudder pedal and the newly installed wiring shroud and prevented rudder pedal movement. The wiring shroud was installed to support the wire harnesses installed below the cockpit instrument panel.

If not corrected, this condition could prevent rudder movement during critical phases of flight or ground operation, and result in loss of control of the aeroplane.

This AD was issued to re-work the wiring shrouds to eliminate potential for obstruction.

**Corrective Actions:**

- A. Verify if the ModSum IS4Q2500035-1 Revisions A, B, C or D and/or IS4Q2500035-2 Revisions A, B, C or D, were installed in the aeroplane. Bombardier Aerospace (BA) Service Bulletin (SB) 84-25-169, Revision A, dated 25 April 2016, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada, provides approved instructions for this inspection. If ModSum IS4Q2500035-1 and/or IS4Q2500035-2 are not installed, no further action is required.
- B. If the ModSum IS4Q2500035-1 Revisions A, B, C, or D or IS4Q2500035-2 Revisions A, B, C or D are installed, rework the installed Wiring Shrouds. BA SB 84-25-169, Revision A, dated 25 April 2016, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada, provides approved instructions for rework of the wiring shrouds.

**Authorization:**

For the Minister of Transport,

ORIGINAL SIGNED BY

Rémy Knoerr  
Chief, Continuing Airworthiness  
Issued on 14 September 2016

**Contact:**

Gordanko Jeremic, Continuing Airworthiness, Ottawa, telephone 1-888-663-3639, facsimile 613-996-9178 or e-mail [AD-CN@tc.gc.ca](mailto:AD-CN@tc.gc.ca) or any Transport Canada Centre.