



AD Number: **CF-2014-40**
Issue Date: **10 November 2014**

AIRWORTHINESS DIRECTIVE

The following airworthiness directive (AD) may be applicable to an aircraft which our records indicate is registered in your name. ADs are issued pursuant to **Canadian Aviation Regulation (CAR) 521 Division X**. Pursuant to **CAR 605.84** and the further details of **CAR Standard 625, Appendix H**, the continuing airworthiness of a Canadian registered aircraft is contingent upon compliance with all applicable ADs. Failure to comply with the requirements of an AD may invalidate the flight authorization of the aircraft. Alternative means of compliance shall be applied for in accordance with **CAR 605.84** and the above-referenced **Standard**.

This AD has been issued by the Continuing Airworthiness Division (AARDG), National Aircraft Certification Branch, Transport Canada, Ottawa, telephone 613 952-4357.

Number: CF-2014-40 **Effective Date:** 24 November 2014
ATA: 23 **Type Certificate:** A-177
Subject: Communications - Cockpit Voice Recorder Impact Switch Inadvertently Activating
Applicability: Bombardier Inc.:
Model BD-700-1A10 aeroplanes, serial numbers 9313, 9381 and 9432 through 9543;
Model BD-700-1A11 aeroplanes, serial numbers 9386, 9401 and 9445 through 9542.
Compliance: Within 15 months from the effective date of this AD, unless already accomplished.
Background: There have been several reports of the Cockpit Voice Recorder (CVR) impact switch being inadvertently activated during flight. The activation of the CVR impact switch removes the primary power to the CVR system and stops the CVR from recording.
In the event of an accident, the loss of CVR data could hinder the identification of the unsafe condition which caused the accident. This could impede the regulatory authorities from developing and mandating corrective actions to prevent additional accidents caused by the same unsafe condition.
This AD mandates the replacement of the existing CVR impact switch and modification to the existing CVR impact switch installation to prevent inadvertent activation of the CVR impact switch.

Corrective Actions:

- A. Replace the affected CVR impact switch with an upgraded one and modify the CVR impact switch installation in accordance with the Accomplishment Instructions of the applicable Bombardier Service Bulletin (SB) 700-23-5012 or 700-23-6011, both at Revision 01 and dated 1 October 2014, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.
- B. Aeroplanes that have incorporated the applicable Service Request for Product Support Action (SRPSA) listed in Table 1, contained in Section 1.A, Effectivity, of the above-mentioned SBs, meet the requirements of this AD.
- C. Replacement of the affected CVR impact switch with an upgraded one and modification of the CVR impact switch installation, prior to the effective date of this AD, in accordance with the Accomplishment Instructions of the applicable Bombardier SB 700-23-5012 or 700-23-6011, both at Basic Issue and dated 4 March 2013, also meets the requirements of this AD.

Authorization: For the Minister of Transport,

ORIGINAL SIGNED BY

Robin Lau
Acting Chief, Continuing Airworthiness

Contact: Robert Farinas, Continuing Airworthiness, Ottawa, telephone 613-952-4357, facsimile 613-996-9178 or e-mail AD-CN@tc.gc.ca or any Transport Canada Centre.