



No.	CF-2014-23	1/2
Issue Date 18 July 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-2014-23

ATA: 27 **Type Certificate:** A-177

Subject: Flight Controls - Restricted Movement of the Aileron Pulley and Control Cables

Effective Date: 31 July 2014

Applicability: Bombardier Inc. model BD-700-1A10 and BD-700-1A11 aeroplanes, serial number 9002 through 9520 and 9998.

Compliance: As indicated below, unless already accomplished.

Background: There have been several reports whereby pilots have experienced difficulty in lateral control following climb through heavy rain conditions. In each event, the pilots were able to overcome this difficulty without disconnecting the aileron control. An investigation has determined that the root cause of the restricted movement of the aileron was due to water ingress into the wing root aileron control pulley assembly through a gap on the wing-to-fuselage fairing resulting in freezing of the aileron control system.

If not corrected, this condition could result in reduced lateral control of the aeroplane.

This AD mandates the incorporation of a cover for the aileron pulley assembly to prevent water ingress in the aileron control pulley assembly.

Corrective Actions: **Part I – Applicable to aeroplanes that have not incorporated a cover for the No. 1 Aileron Pulley**

Within 150 flight cycles from the effective date of this AD, inspect, rework if required, and install a cover for the No. 1 Aileron Pulley in accordance with the Accomplishment Instructions of the applicable Bombardier Service Bulletins (SB) as shown in the table below:

Aeroplane Model	Applicable Service Bulletins
BD-700-1A10	700-27-076, Revision (Rev.) 2, dated 17 June 2014 or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada, or 700-27-6004 Rev. 2, dated 17 June 2014 or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.
BD-700-1A11	700-1A11-27-034 Rev. 2, dated 17 June 2014 or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada, or 700-27-5004 Rev.2, dated 17 June 2014 or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Pursuant to **CAR 202.51** the registered owner of a Canadian aircraft shall, within seven days, notify the Minister in writing of any change of his or her name or address.

To request a change of address, contact the **Civil Aviation Communications Centre (AARC)** at **Place de Ville, Ottawa, Ontario K1A 0N8**, or **1-800-305-2059**, or www.tc.gc.ca/civilaviation/communications/centre/address.asp

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Aeroplanes that have incorporated the Service Request for Product Support Action (SRPSA), as listed in Table 1 of the Paragraph 1, Planning Information, in the SB 700-27-6004, SB 700-27-076 and SB 700-1A11-27-034 meet the intent of this AD and no further action is required.

Accomplishment in accordance with Revision 1 of the above mentioned SBs, all dated 16 July 2012, also satisfies the requirements of this AD.

Part II – Applicable to aeroplanes that have incorporated a cover for the No.1 Aileron Pulley

For aeroplanes that have incorporated a cover for the No.1. Aileron Pulley in accordance with Basic Issue of the above mentioned SBs, within 150 flight cycles from the effective date of this AD, perform an inspection and rework as required, in accordance with the Accomplishment Instructions of Paragraph 2.B, Part A of the above mentioned SBs.

For aeroplanes that have incorporated the Service Non-Incorporated Engineering Orders (SNIEO) or Service Requests for Product Support Action (SRPSA) which are listed in Table 2 of Paragraph 1, Planning Information, in the SB 700-27-6004, SB 700-27-076, and SB 700-1A11-27-034, within 150 flight cycles from the effective date of this AD, do the re-identification of the overwing panels in accordance with Part A, Paragraph 2.B(2)(g) of the above mentioned SBs.

Authorization: For the Minister of Transport,

ORIGINAL SIGNED BY

Robin Lau
Acting Chief, Continuing Airworthiness

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