



No.	CF-2014-04	1/1
Issue Date 13 January 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-2014-04

Subject: Elevator Power Control Unit Shear Pin Premature Failure

Effective: 27 January 2014

Applicability: Bombardier Inc. model CL-600-2B19 aeroplanes, serial numbers 7003 and subsequent.

Compliance: As indicated below, unless already accomplished.

Background: It was found that the elevator power control unit (PCU) shear pins may fail prematurely. The failure of an elevator PCU shear pin is dormant. There are three PCUs on each elevator. If all three PCU shear pins failed on one elevator, the elevator surface would become inoperative, which could reduce the controllability of the aeroplane and could result in a loss of redundancy for flutter prevention.

This AD mandates the repetitive replacement of the elevator PCU shear pins to prevent premature elevator PCU shear pin failures.

Corrective Actions: Replace the elevator PCU shear pins in accordance with the Accomplishment Instructions of Bombardier Service Bulletin (SB) 601R-55-008, Revision A, dated 8 January 2014, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada, using the following schedule:

- A. Initially, within 6600 hours air time or 48 months, whichever occurs first, from the effective date of this AD.
- B. Subsequently, at intervals not to exceed 6600 hours air time or 48 months, whichever occurs first, from the previous elevator PCU shear pin replacement.

Replacement of elevator PCU shear pins in accordance with Canadair Regional Jet Model CL-600-2B19 Aircraft Maintenance Manual, CSP A-001, task number 55-21-27-960-802 also meets the requirements of this AD.

Replacement of elevator PCU shear pins in accordance with Bombardier SB 601R-55-008, Initial Issue, dated 12 July 2013, also meets the requirements of this AD.

Authorization: For the Minister of Transport,

ORIGINAL SIGNED BY

Derek Ferguson
Chief, Continuing Airworthiness

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

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