



No.	CF-2010-38R2	1/2
Issue Date	17 March 2011	

# 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-2010-38R2

**Subject:** Cracking of the Emergency Water Dump Pulley Support Bracket and Structure

**Effective:** 30 March 2011

**Revision:** Supersedes Airworthiness Directive CF-2010-38R1

**Applicability:** The following Bombardier Inc. aeroplane models:  
CL-215-1A10 - Serial Numbers 1051 through 1125,  
CL-215-6B11 (CL-215T) - Serial Numbers 1056 through 1125,  
CL-215-6B11 (CL-415) - Serial Numbers 2001 through 2085.

**Compliance:** No later than 01 June 2011, unless already accomplished.

**Background:** The emergency water dump pulley support bracket assembly, Part Number (P/N) 215-94711-2, has been found cracked or broken on a number of aeroplanes. Failure of the emergency water dump pulley support bracket assembly in combination with other system failures such as an engine failure during take off or pitch control system jam, may result in a loss of control of the aeroplane.

Revision 2 of this AD is issued to ensure that terminating action for this AD is carried out prior to the 2011 fire season.

**Corrective Actions:** **Part I - Inspection**

Within 50 flight cycles after the effective date of this directive, inspect the emergency water dump pulley support bracket assembly and the aeroplane structure where the bracket assembly is installed, in accordance with paragraph 2.A of the applicable Bombardier Alert Service Bulletin (ASB) listed below, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Replace parts in accordance with paragraph 2.A of the applicable Bombardier ASB listed below, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Thereafter, at intervals not exceeding 100 flight cycles, inspect the emergency water dump pulley support bracket assembly and replace parts in accordance with paragraph 2.A.(6)(b) of the applicable ASB listed below, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Model	Alert Service Bulletin
CL-215-1A10, CL-215-6B11 (CL-215T)	215-A543, Rev. 1, dated 23 June 2010
CL-215-6B11 (CL-415)	215-A4424, Rev. 2, dated 23 June 2010

## **Part II - Terminating Action**

No later than 01 June 2011 and in accordance with paragraph 2.B. of the applicable Bombardier ASB listed in Part I, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada:

- A. Inspect stiffeners P/N 215-94711-6 and 215-94711-8 for cracks, deformation or signs of corrosion. If any of the above conditions are found, replace damaged stiffeners prior to further flight.
- B. Re-install the emergency water dump pulley support bracket assembly using radius packers.

**Authorization:** For the Minister of Transport, Infrastructure and Communities

*ORIGINAL SIGNED BY*

Robin Lau for  
Derek Ferguson  
Chief, Continuing Airworthiness

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