Transport Canada Transports Canada

TP 7245E

No. CF-2013-08 1/2
Issue Date 12 March 2013

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-2013-08**

Subject: **Corrosion on the Rudder Upper Torque Tube Lower Bearing**

Effective: **25 March 2013**

Applicability: **Bombardier Inc. aeroplanes:**

Model CL-215-6B11 (CL-215T), serial numbers 1056 to 1125;
Model CL-215-6B11 (CL-415), serial numbers 2001 to 2990.

Compliance: **As indicated below, unless already accomplished.**

Background: During a routine inspection, corrosion was discovered on the Rudder Upper Torque Tube Lower bearing, part number (P/N) DAT48-64A. Corroded bearings may eventually result in a partial or total loss of axial support.

As such, Bombardier has issued Service Bulletin (SB) 215-A3171 Rev. 1 and SB 215-A4452 Rev. 1, which provide instructions to refresh the lubrication in the bearing in order to inspect for corrosion and/or contaminants in the existing grease. These SBs will also incorporate an operational check to the 50 hour maintenance scheduled tasks, and a test of the Rudder Spring Tab operation into the Daily inspection or the aircrew Preflight Check.

Corrective Actions:

Part I – Lubrication of the Rudder Upper Torque Tube Bearing

A. Within three months from the effective date of this AD, refresh the bearing internal lubricant and examine the expelled old grease in accordance with the Accomplishment Instructions contained in the applicable issue of SB 215-A3171 Rev. 1 (dated 25 January 2012) or SB 215-A4452 Rev. 1 (dated 03 January 2012) or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

B. If contaminants, metal wear and/or indication of corrosion is detected, replace bearing prior to further flight.

C. Repeat the inspection specified in Part I of this AD before and after every fire season or at intervals not to exceed six months, whichever occurs first.

NOTE: It is recommended that Part I be carried out in conjunction with AD CF-2008-29 as the task intervals are the same and the tasks are in the same general area.

Part II – Operational Check

Within 30 days from the effective date of this AD, incorporate the Rudder Spring Tab Operational Check into the 50 hour tasks of the Transport Canada approved maintenance schedule in accordance with the Accomplishment Instructions contained in the above mentioned applicable SB or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Part III – Daily Maintenance Procedure

Within 30 days from the effective date of this AD, incorporate a check of the Rudder Spring Tab operation into the Daily inspection tasks of the Transport Canada approved maintenance schedule in accordance with the Accomplishment Instructions contained in the above mentioned applicable SB or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

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

ORIGINAL SIGNED BY

Derek Ferguson
Chief, Continuing Airworthiness

Contact: Yosha Mendis, Continuing Airworthiness, Ottawa, telephone 613-952-4357, facsimile 613-996-9178 or e-mail ADs@tc.gc.ca or any Transport Canada Centre.