



No.	CF-2011-33	1/2
Issue Date	16 August 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- 2011-33

Subject: Engine Support Beam – Cracking on the Upper and Lower Web

Effective: 31 August 2011

Applicability: Bombardier Inc. Aeroplanes:

Model CL-600-1A11 (600), Serial Numbers 1004 through 1085

Model CL-600-2A12 (601 Variant), Serial Numbers 3001 through 3066

Model CL-600-2B16 (601-3A/3R Variant), Serial Numbers 5001 through 5194

Model CL-600-2B16 (604 Variant), Serial Numbers 5301 through 5665 and 5701 and subsequent.

Compliance: As indicated below, unless already accomplished.

Background: Cracks on the upper and lower web of the Engine Support Beam (ESB) have been discovered on two (2) Challenger aeroplanes in service. Failure of the ESB could adversely affect the structural integrity of the aeroplane.

A Temporary Revision (TR) has been made to the Time Limits/Maintenance Checks (TLMC) manual to introduce a new Airworthiness Limitations (AWL) task to ensure that fatigue cracking of the ESB is detected and corrected.

This directive mandates the incorporation of the new AWL task.

Corrective Actions: 1. Within 60 days after the effective date of this directive, amend the Transport Canada Approved Maintenance Schedule by incorporating the new TLMC inspection task, as introduced per the following applicable TRs, all dated 31 May 2011:

Model	TLMC Manual	Chapter 5 Task Number	TR Number
600	PSP 605	53-10-00-198	TR 5-151
601	PSP 601-5	53-10-00-198	TR 5-250
601-3A/3R	PSP 601-5A	53-10-00-198	TR 5-261
604	CL-604 or CL-605	53-30-00-155	TR 5-2-47 or TR 5-2-9

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

Canada

2. Initial compliance with the above-mentioned TLMC tasks shall be carried out in accordance with the phase-in schedule as detailed in the applicable TRs.

Compliance in accordance with superseding Temporary Revisions or later revisions of the Time Limits/Maintenance Checks manual, approved by Transport Canada, also satisfies the requirements of this directive.

Authorization: For the Minister of Transport, Infrastructure and Communities

ORIGINAL SIGNED BY

Derek Ferguson
Chief, Continuing Airworthiness

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