



No.	CF-2002-30R1	1/2
Issue Date	22 June 2004	

# 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) 593**. 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), Aircraft Certification Branch, Transport Canada, Ottawa, telephone (613) 952-4357.

**Number:** CF-2002-30R1

**Subject:** Bombardier CL-600-2C10 – Thrust Reverser Cascades Configuration Inspection & Modification

**Effective:** 30 June 2004

**Revision:** Supersedes Airworthiness Directive CF-2002-30, issued 22 May 2002.

**Applicability:** CL-600-2C10 Regional Jet Series 700 Aircraft, Serial Numbers 10003 to 10116 inclusive.

Note: Aircraft serial numbers 10002, 10117 and subsequent will have Service Bulletin No. 670BA-78-003 incorporated by Bombardier before initial delivery.

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

**Background:** An incident occurred during a pre-delivery flight where upon landing and application of maximum thrust reverser, the aircraft veered to the right from the runway heading.

The investigation determined that the thrust reverser cascades configuration on the left engine was incorrect. The cascades have different part numbers to control the correct installation location, however, it is physically possible that diagonally opposed cascades can be intermixed.

Bombardier has issued Alert Service Bulletin (SB) A670BA-78-001 to introduce an inspection and to confirm the proper installation of the thrust reverser cascades.

Revision 1 of this directive has been issued to mandate Bombardier SB 670BA-78-003 to introduce the installation of the locating spigots on the thrust reverser cascades to ensure proper installation/configuration.

**Corrective Actions:** To ensure the thrust reverser cascades are installed in the appropriate configuration, accomplish the following:

## Part I - Inspection

1. For CL-600-2C10 Regional Jet Series 700 Aircraft Serial Numbers 10005 through 100040: Within 72 hours air time or 30 days following the effective date of this directive, whichever occurs first, perform an inspection of the thrust reverser cascades configuration, and correct the cascades installation if required, in accordance with Bombardier Alert SB A670BA-78-001, Revision A, dated 23 April 2002, or later revisions approved by the Chief, Continuing Airworthiness, Aircraft Certification, Transport Canada; and
2. For all CL-600-2C10 Regional Jet Series 700 Aircraft, inspect the thrust reverser cascades configuration in accordance with Bombardier Alert SB A670BA-78-001 Revision A, each time the thrust reverser cascade assemblies are changed.

Report any improperly installed thrust reverser cascades configuration to Transport Canada by submitting a Service Difficulty Report (SDR).

## **Part II - Modification**

Within 6,000 hours air time following the effective date of this revision, incorporate Bombardier Service Bulletin No. 670BA-78-003, dated 22 January 2004, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada. Incorporation of this modification constitutes terminating action to the inspection requirements of this directive identified in Part I.

**Authorization:** For Minister of Transport



B. Goyaniuk  
Chief, Continuing Airworthiness

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