



No.	CF-2006-06	1/1
Issue Date	4 April 2006	

# 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-2006-06

**Subject:** Engine Exhaust Shroud V-Band Couplings

**Effective:** 8 May 2006

**Applicability:** Bombardier Inc. Model DHC-8-400, DHC-8-401 and DHC-8-402 Serial Numbers 4001 through 4098 with engine exhaust shroud V-band clamps (part numbers VC1642A-1875-A or VC1642A-2030-A) that have manufacturer batch stamp dated earlier than 08-02 (August 2002).

**Compliance:** When indicated, unless already accomplished.

**Background:** There have been reports of a discrepancy on a V-band clamp located on the engine exhaust duct shroud during maintenance inspections. The clamp ends were found touching with the correct fastener torque applied, resulting in reduced clamp force on the flanges.

Investigation revealed that a batch of V-band clamps were not manufactured to the drawing specifications. If not corrected, this condition may cause vibration and fretting of the V-band clamp flanges, leading to flange cracking and local area overheating. This situation can trigger the fire warning system and result in an in-flight emergency such as the flight crew requiring to shut down the engine and activate the fire suppression system.

Bombardier Service Bulletin (SB) 84-78-01 was issued to introduce an inspection on the affected V-band clamps to ensure their integrity, and replacement of the affected clamps as required.

**Corrective Action:** Within 5000 flight hours after the effective date of this directive, carry out an inspection and replacement (as required) of the V-band clamps to ensure a proper gap, in accordance with Bombardier SB 84-78-01, Revision A, dated 15 September 2005, or its later revisions approved by the Chief, Continuing Airworthiness, Aircraft Certification Branch, Transport Canada.

**NOTE:** Prior inspection and replacement of the V-band clamps (before the effective date of this directive) in accordance with the original issue of SB 84-78-01, satisfies the requirements of this directive.

**Authorization:** For Minister of Transport

B. Goyaniuk  
Chief, Continuing Airworthiness

**Contact:** Mr. Robin Lau, Continuing Airworthiness, Ottawa, telephone 613 952-4461, facsimile 613 996-9178 or e-mail [laur@tc.gc.ca](mailto:laur@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](http://www.tc.gc.ca/civilaviation/communications/centre/address.asp)