



No.	CF-2002-49	1/2
Issue Date 6 December 2002		

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-2002-49

Subject: Bombardier DHC-2 Mk. 1 - Inspection of Exhaust Collector Ring Segments

Effective: 10 January 2003

Supersedes: This directive supersedes Airworthiness Directive CF-65-3 that became effective 31 December 1965.

Applicability: All Bombardier Inc. DHC-2 Mk. 1 aircraft.

Compliance: As detailed below, unless already accomplished.

Background: To prevent the possibility of a carburetor fire upon starting, particularly when the hot air valve control is in the "hot" position, Transport Canada Airworthiness Directive CF-65-3 required a 50-hour repetitive inspection on repaired exhaust collector ring segments and a 150-hour repetitive inspection on un-repaired exhaust collector ring segments to verify their integrity.

Based on service experience, the inspection interval for repaired segments is changed from every 50 hours to every 150 hours.

Corrective Actions: To prevent the possibility of a carburetor fire, upon starting, accomplish the following:

1. Inspect the exhaust collector ring segments in accordance with paragraph (2) by the earlier of (a) or (b) below:
 - (a) Within the next 150 hours air time after the effective date of this directive;
 - (b) Within the next 150 hours air time after the most recent inspection in accordance with Airworthiness Directive CF-65-3.
2. Remove the carburetor heater muff, P/N C2-EE-181A, -161A, -171A, and -1155A, and inspect the exhaust collector ring segments, P/N C2-EE251A, -253A, -255A, and -257A, for cracks or burnt holes.
 - (a) Replace segments that have developed major breaks, cracks other than minor, or burning;
 - (b) Segments with minor cracks must either be replaced or repaired by welding as per DHC-2 Beaver Maintenance Manual Para. 5.4.3, and DHC-2 Beaver Repair Manual Para. 6-13;
 - (c) Replace segments that have developed further cracking from repair welds.

3. Repeat the inspection in accordance with paragraph (2) of this directive at intervals not exceeding 150 hours air time.
4. Report any damage found to Transport Canada using the Service Difficulty Reporting System.

Authorization: For Minister of Transport



pour B. Goyaniuk
Chief, Continuing Airworthiness

Contact: Mr. Luc Deniger, Continuing Airworthiness, Ottawa, (613) 952-5385 or e-mail denigel@tc.gc.ca or any Transport Canada Centre.