



No.	CF-2001-14	1/1
Issue Date	21 March 2001	

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- 2001-14

Subject: Bombardier DHC-8-400 - Fuel Tank Lightning Protection

Effective: 4 May 2001.

Applicability: Bombardier Inc. DHC-8 Series 400, serial numbers 4005, 4006, 4008 through 4010, 4012 through 4015, and 4018 through 4040.

Compliance: When indicated, unless already accomplished.

Background: Two potential problems have been identified with the wing fuel tanks which, if not corrected, could compromise the lightning protection of the aircraft. The first issue is the possible lack of clearance between the fuel tank vent line and rib structures at 20 wing stations (10 in each wing). The second issue is a potential fouling condition between #1, #2 and #5 fuel probes and the wing tank structure. The potential fouling problem with the probes was identified during initial production. Reworked probes, designed to provide a temporary solution, were installed at that time.

Corrective Actions: **Part A - Fuel tank vent line clearance**

For aircraft serial numbers 4005, 4006, 4008 through 4010, 4012 through 4015, and 4018 through 4040, within 120 days after the effective date of this directive, incorporate ModSum 4-113299. Approved instructions for incorporating ModSum 4-113299 are detailed in the Accomplishment Instructions of Bombardier Alert Service Bulletin A84-28-02 dated 7 February 2001 or later revisions approved by the Director, Aircraft Certification, Transport Canada.

Part B - Replacement of fuel probes #1, #2 and #5

For aircraft serial numbers 4006, 4008, 4012 through 4015, and 4018 through 4027, before accumulating 4,000 hours air time after the effective date of this directive, incorporate ModSum 4-113192. Approved instructions for incorporating ModSum 4-113192, are detailed in the Accomplishment Instructions of Bombardier Service Bulletin 84-28-01 dated 19 December 2000 or later revisions approved by the Director, Aircraft Certification, Transport Canada.

Authorization: For Minister of Transport

for B. Goyaniuk
Chief, Continuing Airworthiness

Contact: Mr. Ian McLellan, Continuing Airworthiness, Ottawa, telephone (613) 952-4362, facsimile (613) 996-9178 or e-mail mclelli@tc.gc.ca or any Transport Canada Centre.