



No.	CF-2004-19	1/1
Issue Date	21 September 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-2004-19

Subject: Bombardier DHC-8-400 – Airworthiness Limitation Items

Effective: 20 October 2004

Applicability: Bombardier Inc. DHC-8 Aircraft, Models 400, 401 and 402, serial numbers 4001, and 4003 through 4094

Compliance: When indicated, unless already accomplished.

Background: During DHC-8-400 type certification fatigue testing, fatigue failures were discovered at the engine isolator bracket and at the orifice support tube, upper bearing and piston plug in the main landing gear shock strut assembly. Failure of these components, which have been identified as principal structural elements, could adversely affect the structural integrity of the engine installation and of the main landing gear. Revisions have been made to the DHC-8-400 Maintenance Requirements Manual, Airworthiness Limitation Items, to ensure that fatigue failure of these components is detected and corrected.

Corrective Action: Limitations Change

Within 30 days after the effective date of this directive, amend the Transport Canada approved maintenance schedule by:

1. Incorporating the revised structural inspection tasks, 712001F102 and 712003F102 respectively as introduced by Temporary Revision, ALI-37 of Airworthiness Limitations Items (ALI) of the DHC-8-400 Maintenance Requirements Manual, PSM 1-84-7; and
2. Incorporating the revised safe life limits for the Orifice Support Tube, P/N 46117-1, Upper Bearing, P/N 46114-1, and Piston Plug, P/N 46137-1, as introduced by Temporary Revision, ALI -28 of Airworthiness Limitations Items (ALI) of the DHC-8-400 Maintenance Requirements Manual, PSM 1-84-7.

Authorization: For Minister of Transport

B. Goyaniuk
Chief, Continuing Airworthiness

Contact: Mr. Anthony Wan, Transport Canada, Continuing Airworthiness, Ottawa, telephone (613) 952-4410, facsimile (613) 996-9178 or e-mail wana@tc.gc.ca or any Transport Canada Centre.