



No.	CF-2002-07	1/2
Issue Date	21 January 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-2002-07
- Subject:** Bombardier DHC-8 Series 400 - Forward Engine Mount Assembly
- Effective:** 4 March 2002
- Applicability:** Bombardier Inc. DHC-8 Model 400, 401, 402, serial numbers 4005, 4006, 4008 to 4016, 4018 to 4051 and 4053
- Compliance:** When indicated, unless already accomplished.
- Background:** The manufacturer of the forward engine mount assembly has identified that pre-production engine mount assembly, part number, 96042-07, had been installed as a production engine mount assembly, part number, 96042-09. This pre-production engine mount has a reduced fatigue life when compared to the production engine mount assembly. Based on vendor input, it is also possible that -07 assemblies may be incorrectly marked as -09 assemblies. Installation of the pre-production engine mount assemblies may result in premature failure of the forward engine mount that would degrade the integrity of the engine/nacelle installation.
- Corrective Actions:**
1. Within 100 flight cycles after the effective date of this directive, perform a visual inspection to determine the part number and the configuration for the four (4) forward engine mount assemblies in accordance with Bombardier Alert Service Bulletin, A84-71-06, Revision A, dated 5 December 2001, or later revisions approved by the Chief, Continuing Airworthiness, Aircraft Certification, Transport Canada.

For any of the engine mount assemblies identified to be the pre-production configuration (P/N 96042-07), comply with one of the following options:

(a) If only one pre-production engine mount assembly (P/N 96042-07) has been identified in a nacelle, accomplish the following:

(i) Perform a detailed visual inspection on the pre-production engine mount for cracks in accordance with the above mentioned Alert Service Bulletin prior to further flight.

(ii) At intervals not to exceed 250 flight cycles, repeat the inspection detailed in paragraph (a)(i).

(iii) Replace the 96042-07 assembly with a 96042-09 assembly at or before 1,100 flight cycles from the effective date of this directive.

(b) If both forward engine mounts installed in a nacelle have been identified as pre-production engine mount assemblies (P/N 96042-07), accomplish the following:

(i) Perform the inspection detailed in paragraph (a)(i) above prior to further flight.

(ii) If no cracks found on both the pre-production engine mount assemblies, replace at least one with the production engine mount assembly (P/N 96042-09) prior to further flight.

(iii) Repeat the detailed visual inspection in accordance with paragraph (a)(ii) and replace the remaining 96042-07 assembly with a 96042-09 assembly in accordance with paragraph (a)(iii).

2. Any engine mount assemblies found cracked are to be replaced with the production engine mount assemblies (P/N 96042-09) prior to further flight.

3. Installation of all four forward engine mounts with the production engine mount assemblies (P/N 96042-09) terminates the repetitive inspection requirements of this directive.

4. As of the effective date of this directive, pre-production engine mount assembly (P/N 96042-07) shall not be installed on any aircraft as replacement. Replacement of pre-production engine mount assembly may be achieved either by direct replacement with the -09 configuration or by the rework of the -7 assembly in accordance with Part B of the Accomplishment Instructions of the above-mentioned Alert Service Bulletin.

Authorization: For Minister of Transport



for 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.