



No.	CF-2002-40	1/1
Issue Date	19 September 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-2002-40

Subject: Bombardier DHC-6 - Wing Spar Strut Lug Inspection

Effective: 25 October 2002

Applicability: Bombardier Inc. DHC 6 Series 1, 100 and, 200 aircraft with PreMod 6/1117 wings that have accumulated less than 17,400 hours air time or 34,800 flight cycles.

Compliance: Compliance is required as indicated, unless already accomplished.

Background: The non-destructive testing (NDT) inspection of the wing spar strut lug fastener holes of several aircraft with PreMod 6/1117 wings has revealed corrosion in the critical fastener holes. While the inspection of these critical holes is addressed under AD CF-2000-14, some low-utilization aircraft have yet to reach the fatigue based inspection threshold of 17,400 hours air time or 34,800 flight cycles. Undetected corrosion in the critical fastener holes could lead to lug cracking, compromising the structural integrity of the wing.

Corrective Actions: Within 12 months of the effective date of this directive, and at intervals not to exceed 10 years, accomplish the following:

1. Conduct a high frequency eddy current inspection of the wing spar strut lug fastener holes. Perform the inspection in accordance with the wing spar strut lug fastener hole inspection procedures detailed in Part 3, Inspection Requirements Manual - PSM 1-6-7.
2. Assess the results and comply with any additional action required in accordance with the acceptance/rejection criteria detailed in the wing spar strut lug fastener hole inspection of Part 3, Inspection Requirements Manual - PSM 1-6-7.
3. If corrosion, cracking or damage is found in any fastener hole, report findings to Bombardier within 14 days of the inspection.
4. After the initial inspection as detailed above, the local regulatory authority may authorize incorporation of this inspection into the operator's approved maintenance schedule as terminating action for this directive.

Authorization: For Minister of Transport

for B. Goyaniuk
Chief, Continuing Airworthiness

Contact: Mr. Gordanko Jeremic, Continuing Airworthiness, Ottawa, telephone (613) 952-4363, facsimile (613) 996-9178 or e-mail jeremig@tc.gc.ca or any Transport Canada Centre.