



No.	CF-2004-16	1/2
Issue Date	7 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-2004-16
- Subject:** Bombardier DHC-8 – Fuselage Longitudinal Skin Joints
- Effective:** 28 September 2004
- Applicability:** Bombardier Inc. DHC-8 aircraft, Models 102, 103, 106, 201, 202, 301, 311, 314 and 315, serial numbers 003 and subsequent.
- Compliance:** When indicated, unless already accomplished.
- Background:** The longitudinal skin joints in the fuselage pressure shell for DHC 8 aircraft have been identified as principal structural elements where visual inspection has been established as an inspection method; however, it was recently discovered that portions of the skin joints could not be properly inspected by visual means as these locations are hidden by other structures.

Revisions have been made to the Airworthiness Limitations List of the DHC-8 Maintenance Program Manuals, to implement newly developed eddy current inspection procedures, along with new and revised inspection requirements to ensure that the entire length of the fuselage longitudinal skin joints are properly inspected to prevent failure.

Corrective Actions: **A. Airworthiness Limitations Change**

Within 30 days after the effective date of this directive, amend the Transport Canada approved maintenance schedule by incorporating the new and revised structural inspection tasks as introduced by Temporary Revision (TR) of Airworthiness Limitations List (AWL) of the DHC-8 Maintenance Program Manuals specified below:

DHC-8 Models	Maintenance Program Manual	Task No.	Temporary Revision
102, 103, 106	PSM 1-8-7	5310/29E 5310/30A	TR AWL-92 TR AWL-93
201, 202	PSM 1-82-7	5310/29E 5310/30A	TR AWL 2-31 TR AWL 2-32
301, 311, 314, 315	PSM 1-83-7	5310/29E 5310/30A	TR AWL 3-98 TR AWL 3-99

B. Phase-In Schedule

The phase-in schedule for the structural inspection tasks detailed in paragraph A.1 above is as follows:

1. For aircraft that have accumulated less than or equal to 40,000 flight cycles at the effective date of this directive:

Perform the structural inspection task numbers 5310/29E and 5310/30A at intervals specified in the above-mentioned applicable Temporary Revision of Airworthiness Limitations List of the Maintenance Program Manuals.

2. For aircraft that have accumulated more than 40,000 flight cycles, but not more than 57,500 flight cycles at the effective date of this directive:

Perform the eddy current inspection as detailed in task numbers 5310/29E and 5310/30A, within the next 5,000 hours flight time but not later than 60,000 flight cycles, whichever comes first.

In addition, for aircraft models 106, 201 and 202, perform both the detailed visual and eddy current inspections at areas below floor, as detailed in task number 5310/30A, within the next 5,000 hours flight time but not later than 60,346 flight cycles, whichever comes first.

3. For aircraft that have accumulated more than 57,500 flight cycles at the effective date of this directive:

Perform the eddy current inspection as detailed in task numbers 5310/29E and 5310/30A, within twelve (12) months or 2,500 flight cycles after the effective date of this directive, whichever comes first.

In addition, for aircraft models 106, 201 and 202, perform both the detailed visual and eddy current inspections at areas below floor as detailed in task number 5310/30A, within twelve (12) months or 2,500 flight cycles after the effective date of this directive, whichever comes first.

Authorization: For Minister of Transport



B. Goyaniuk
Chief, Continuing Airworthiness

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