



No.	CF-1996-20R4	1/2
Issue Date	10 August 2005	

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-1996-20R4

Subject: Cockpit Door Alternate Release

Effective: 21 July 1997 (the effective date of Revision 2 (R2) of this directive)

Revision: Supersedes Airworthiness Directive CF-1996-20R3.

Applicability: Bombardier Inc. DHC-8, Models 102, 103, 106, 201, 202, 301, 311, 314 and 315, equipped with cockpit door installation, Part Numbers 82510074-(*), 82510294-(*), 82510310-001, 8Z4597-001, H85250010-(*), 82510700-(*), or 82510704-(*), except 82510704-502 and 82510704-503.

Note: (*) denotes all dash numbers.

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

Background: There has been an incident of the cockpit door alternate release mechanism malfunctioning following a door-lock mechanism being jammed. Subsequent testing by Bombardier has identified a design deficiency that requires corrective action.

With increased security concerns, various civil aviation authorities recently mandated the installation of reinforced cockpit doors. With the installation of new reinforced cockpit doors, the alternate release jamming issues addressed in Revision 2 of this directive are no longer applicable. This directive is therefore revised to reflect the affected part numbers of the cockpit door installation as shown in the "Applicability" section.

Bombardier has identified that part number 82510704-502 and 82510704-503 cockpit door installations are new reinforced cockpit doors that are not subject to the alternate release jamming issue. Therefore, Revision 4 of this directive is issued to correct the "Applicability" section.

Corrective Action: To ensure correct operation of the cockpit door alternate release mechanism accomplish the following:

- A. Prior to 31 October 1997, inspect, and repair if necessary, the areas around the hinge pin holes in accordance with Section III, Accomplishment Instructions, "Special Inspection/Repair", of de Havilland Service Bulletin (SB) 8-52-39, Revision B, dated 4 July 1997, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.
- B. Prior to 31 October 1997, install Modification 8/2337 (Installation of Improved Alternate Release Feature in Flight Compartment Door) in accordance with de Havilland SB 8-52-39, Revision B, dated 4 July 1997 or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Pursuant to **CAR 202.51** the registered owner of a Canadian aircraft shall, within seven days, notify the Minister in writing of any change of his or her name or address.

To request a change of address, contact the Civil Aviation Communications Centre (AARC) at Place de Ville, Ottawa, Ontario K1A 0N8, or 1-800-305-2059, or www.tc.gc.ca/civilaviation/communications/centre/address.asp

C. At intervals not to exceed 800 hours air time following accomplishment of the requirements of paragraph A above, repeat the special inspection/repair procedure as detailed in paragraph A.

Notes:

1. Modifications 8/2228, 8/2229, 8/2231, 8/2232, 8Q100859, 8Q900267, 8Q420101, 8Q420143, 8Q200131, or 8Q420440, installed during production are equivalent to Modification 8/2337, with respect to the cockpit door alternate release mechanism, and meet the intent of paragraph B of this directive.
2. Previous installation of Modification 8/2337 in accordance with an earlier issue of SB 8-52-39, also meets the requirements of paragraph B of this directive.

Authorization: For Minister of Transport



R. William Taylor
Acting Chief, Continuing Airworthiness

Contact: Mr. Philip Tang, Continuing Airworthiness, Ottawa, telephone 613 952-4379, facsimile 613 996-9178 or e-mail tangp@tc.gc.ca or any Transport Canada Centre.
