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TP 7245E

No.	CF-2005-34R1	1/2
Issue Date	15 August 2007	

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-2005-34R1

Subject: Cockpit Door Hinge Attachment Modification

Effective: 7 September 2007

Revision: Supersedes Airworthiness Directive CF-2005-34 issued on 29 August 2005.

Applicability: Bombardier Inc. DHC-8 Models 102, 103, 106, 201, 202, 301, 311, 314 and 315 aircraft, Serial Numbers 003 through 557, 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 below, unless already accomplished.

Background: During structural testing of the cockpit door, it was observed that the door lower hinge block rotated which resulted in disengagement of the mating hinge pin and excessive door deflection. The lower hinge block rotated because it was attached to its support structure with only one attachment bolt, which prevented it from reacting to any moment force. This condition, if not corrected, could result in breakage and uncontrolled release of the cockpit door under certain decompression situations.

After incorporation of Modsum 8Q900267 required by Part B of this directive, an operator reported a failure to complete the cockpit door removal function test. This condition, if not corrected, could result in the inability to remove the cockpit door for emergency egress. Therefore, Revision 1 of this directive is issued to require rework of the cockpit door striker plate and replacement of the latch block for the affected aircraft serial numbers. In addition, this revision also clarifies the Modsums required prior to the incorporation of Part B.

Corrective Action: A. Applicable to aircraft Serial Numbers 003 through 451, 453 through 463, 465 through 489, 491 through 505, and 507.

Within 24 months after 29 September 2005 (the effective date of the original issue of this directive), unless already accomplished:

Modify the cockpit door single-point hinge attachment to a two-point hinge attachment by incorporating Modsum 8Q100859. Bombardier Service Bulletin (SB) 8-52-54, Initial Issue, dated 12 May 2004, Revision A, dated 5 November 2004, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada, provides approved instructions for incorporating Modsum 8Q100859.

Note: Installation of Modifications 8/2337 and 8/3339 are required for aircraft Serial Numbers 003 through 407, 409 through 412, and 414 through 433, prior to the installation of Modsum 8Q100859.

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**

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B. Applicable to aircraft Serial Numbers 452, 464, 490, 506, and 508 through 557.

Within 24 months after 29 September 2005 (the effective date of the original issue of this directive), unless already accomplished:

Modify the cockpit door single-point hinge attachment to a two-point hinge attachment by incorporating Modsum 8Q900267. Bombardier SB 8-52-58, Initial Issue, dated 12 May 2004, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada, provides approved instructions for incorporating Modsum 8Q900267.

Note: Installation of Modsums 8Q200015 is required prior to the installation of Modsum 8Q900267.

C. Applicable to aircraft Serial Numbers 452, 464, 490, 506, and 508 through 557.

1. For aircraft that have already accomplished Part B above as of the effective date of this directive:

Within 12 months from the effective date of this directive, rework the cockpit door striker plate and replace the latch block by incorporating Modsum 8Q902145. Bombardier SB 8-52-61, Original Issue, dated 20 October 2006 or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada, provides approved instructions for incorporating Modsum 8Q902145.

2. For aircraft that have not already accomplished Part B above as of the effective date of this directive:

Carry out the requirements of Part C, paragraph 1 above, concurrent with the Part B requirements of this directive.

Authorization: For Minister of Transport, Infrastructure and Communities

Philip Tang
Acting Chief, Continuing Airworthiness

Contact: Mr. Philip Tang, Continuing Airworthiness, Ottawa, telephone 613 952-4365, facsimile 613 996-9178 or e-mail tangp@tc.gc.ca or any Transport Canada Centre.