



No.	<b>CF-2006-13</b>	1/2
Issue Date	<b>6 June 2006</b>	

# 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-2006-13
- Subject:** Spoiler Cable Disconnect Sensing System
- Effective:** 12 July 2006
- Applicability:** Bombardier Inc. DHC-8 Models 102, 103, 106, 201, 202, 301, 311, 314 and 315 aircraft, Serial Numbers 003 through 599.
- Compliance:** Within 24 months after the effective date of this directive, unless already accomplished.
- Background:** It has been identified that a roll spoiler cable failure could result in an unacceptable amount of roll spoiler deflection, which could result in reduced controllability of the aircraft. To address this condition, Modsum 8Q100898 has been issued to introduce a spoiler cable disconnect sensing device. This modification has been installed in production on aircraft serial numbers 562 and subsequent. An associated operational check has also been introduced (See Note 1).

In addition, Modsum 8Q101443 has been issued to address a potential spoiler cable interference condition on aircraft serial numbers 003 through 123, 125 through 130, 132 through 136, 138 and 139, which do not yet have a spoiler cable tension regulator (Mod 8/0708) installed.

Following incorporation of the spoiler cable disconnect sensing device on several aircraft, it was noted that, in the event of a spoiler cable failure, only the **ROLL SPLR INBD HYD** caution light will be illuminated until the aircraft speed decreases below 135 kts, at which time the **ROLL SPLR OUTBD HYD** caution light will also be illuminated. Modsum 8Q101445 has been issued to rework the sensing circuit caution light indication to ensure that it is consistent for spoiler cable disconnects above and below 135 kts. This modification has been installed in production on aircraft serial numbers 600 and subsequent.

- Corrective Actions:**
- A. Applicable to Aircraft Serial Numbers 124, 131, 137 and 140 through 561:**
- Incorporate Modsum 8Q100898 to install the spoiler cable disconnect sensing device. Bombardier Service Bulletin 8-27-89, Revision E, dated 27 January 2005, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada, provides approved instructions for incorporating Modsum 8Q100898. (See Note 2).
- B. Applicable to Aircraft Serial Numbers 003 through 123, 125 through 130, 132 through 136, 138 and 139:**
- Incorporate Modsums 8Q100898 and 8Q101443 to install the spoiler cable disconnect sensing device and to correct potential spoiler cable interference condition. Bombardier Service Bulletin 8-27-89, Revision E, dated 27 January 2005, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada, provides approved instructions for incorporating Modsums 8Q100898 and 8Q101443. (See Notes 2 and 3).

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](http://www.tc.gc.ca/civilaviation/communications/centre/address.asp)



**C. Applicable to Aircraft Serial Numbers 003 through 599:**

1. Incorporate Modsum 8Q101445 to rework the spoiler cable disconnect sensing circuit. Bombardier Service Bulletin 8-27-103, Revision A, dated 12 February 2004, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada, provides approved instructions for incorporating Modsum 8Q101445. (See Note 4).
2. If Modsum 8Q100898 has not yet been incorporated, incorporate Modsum 8Q101445 in conjunction with Modsum 8Q100898 (refer to Paragraph A or B of this directive, as applicable).

**NOTES**

1. The mandatory operational check requirement for the spoiler cable disconnect system (Modsum 8Q100898) is detailed in Part 2 of Maintenance Program Manual, Airworthiness Limitations (AWL), Task Number 2760/14. It was introduced by Temporary Revisions AWL-88 (Series 100), AWL 2-28 (Series 200) and AWL 3-95 (Series 300), all dated 5 August 2004. Temporary Revision AWL-88 (Task Number 2760/14) has since been incorporated in Revision 17 of Part 2, AWL's, dated 19 April 2005, of the Series 100 Maintenance Program Manual.
2. Installation of Modsum 8Q100898, in accordance with the original issue, Revision A, B, C or D of Bombardier Service Bulletin 8-27-89, also meets the requirements of Paragraph A or B of this directive for this particular Modsum.
3. Installation of Modsum 8Q101443, in accordance with Revision C or D of Bombardier Service Bulletin 8-27-89, also meets the requirements of Paragraph B of this directive for this particular Modsum.
4. Installation of Modsum 8Q101445, in accordance with the original issue of Bombardier Service Bulletin 8-27-103, also meets the requirements of Paragraph C of this directive.

**Authorization:** For Minister of Transport, Infrastructure and Communities

B. Goyaniuk  
Chief, Continuing Airworthiness

**Contact:** Mr. Richard Topham, Continuing Airworthiness, Ottawa, telephone 613-952-4428, facsimile 613-996-9178 or e-mail tophamr@tc.gc.ca or any Transport Canada Centre.