



No.	CF-2014-11	1/2
Issue Date	13 February 2014	

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) 521 Division X**. 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), National Aircraft Certification Branch, Transport Canada, Ottawa, telephone 613 952-4357.

Number: CF-2014-11

Subject: Landing Gear - False Emergency Downlock Indication

Effective: 27 February 2014

Applicability: Bombardier Inc. model DHC-8-102, -103, -106, -201, -202, -301, -311, -314 and -315 aeroplanes, serial numbers 003 through 672.

Compliance: As indicated below, unless already accomplished.

Background: During an in-service event where the landing gear control panel indicated an unsafe nose landing gear, the flight crew observed that all three green lights were illuminated on the emergency downlock indication system. The nose landing gear was not down and locked, and collapsed during landing.

Investigation found ambient light and wiring shorts can lead to incorrect illumination of the green lights on the emergency downlock indication system.

This AD mandates the functional check of the nose and main landing gear alternate indication phototransistors and the modification of the emergency downlock indication system.

Corrective Actions: **Part I – Repetitive Inspection**

Perform a functional check of the nose and main landing gear alternate indication phototransistors, and rectify as required, in accordance with the Accomplishment Instructions of Bombardier Service Bulletin (SB) 8-32-173, Revision A, dated 17 December 2012, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada, using the following schedule:

- A. Initially, within 600 hours air time or 100 days, whichever occurs first, from the effective date of this AD.
- B. Subsequently, at intervals not to exceed 600 hours air time or 100 days, whichever occurs first.

Previous inspection in accordance with Bombardier SB 8-32-173, Initial Issue, dated 28 October 2011, also meet the requirements of Part I, Paragraph A of this AD.

Part II – Terminating Action

Within 6000 hours air time or 36 months, whichever occurs first, from the effective date of this AD, incorporate all appropriate Modsums in accordance with the applicable corresponding Bombardier SB listed below, 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

Aeroplane Configuration	Incorporate Modsum	Bombardier SB	Dated
With Modsum 8/1519	8Q101968	8-33-56, Revision A	22 February 2013
With Modsum 8/0235, 8/0461 and 8/0534	8Q101955	8-32-176, Revision A	22 February 2013
Without Modsum 8/0534	8Q101969	8-32-177	9 October 2013

Incorporation of the appropriate Modsums in accordance with earlier revisions of the appropriate Bombardier SB also meet the requirements of Part II of this AD.

Part II of this AD constitutes terminating action to this AD. Part I of this AD is no longer required after accomplishment of Part II of this AD.

Authorization: For the Minister of Transport,

ORIGINAL SIGNED BY

Derek Ferguson
Chief, Continuing Airworthiness

Contact: Helen Tsai, Continuing Airworthiness, Ottawa, telephone 613-952-4357, facsimile 613-996-9178 or e-mail AD-CN@tc.gc.ca or any Transport Canada Centre.