



No.	CF-2007-32R2	1/3
Issue Date	27 June 2013	

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-2007-32R2
- Subject:** Fuel System Safety - Introduction of Maintenance Tasks
- Effective:** 11 July 2013
- Revision:** Supersedes Airworthiness Directive (AD) CF-2007-32R1, issued 1 March 2013.
- 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:** Bombardier Aerospace has completed a system safety review of the aeroplanes fuel system against fuel tank safety standards introduced in Chapter 525 of the Airworthiness Manual through Notice of Proposed Amendment (NPA) 2002-043. The identified non-compliances were then assessed using Transport Canada Policy Letter No. 525-001, to determine if mandatory corrective action is required.

The assessment showed that supplemental maintenance tasks are required to prevent potential ignition sources within the fuel system, which could result in a fuel tank explosion. Revisions have been made to Part 2 "Airworthiness Limitations List" of the DHC-8 Maintenance Program Manuals to introduce the required maintenance tasks.

Revision 1 of this AD was issued to clarify the phase-in schedule for tasks FSL-02 and FSL-17.

Revision 2 of this AD is issued to correct the effective date of AD CF-2013-07 referenced in Part III of the Corrective Actions and to clarify the revised phase-in schedules in Part II and Part III of the Corrective Actions.

Corrective Actions: **Part I – Incorporation of Fuel System Limitations (FSL) Tasks**

Within 60 days from the effective date of the Original Issue of this AD (3 January 2008):

A. Applicable to DHC-8-102, DHC-8-103, DHC-8-106 Aeroplanes:

Revise the Transport Canada approved maintenance schedule by incorporating all the FSL tasks contained in Temporary Revision (TR) AWL-110 of DHC-8-100 Maintenance Program Manual, PSM 1-8-7, Part 2 "Airworthiness Limitations List".

B. Applicable to DHC-8-201, DHC-8-202 Aeroplanes:

Revise the Transport Canada approved maintenance schedule by incorporating all the FSL tasks contained in Temporary Revision (TR) AWL 2-43 of DHC-8-200 Maintenance Program Manual, PSM 1-82-7, Part 2 "Airworthiness Limitations List".

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. Applicable to DHC-8-301, DHC-8-311, DHC-8-314, DHC-8-315 Aeroplanes:

Revise the Transport Canada approved maintenance schedule by incorporating all the FSL tasks contained in Temporary Revision (TR) AWL 3-109 of DHC-8-300 Maintenance Program Manual, PSM 1-83-7, Part 2 "Airworthiness Limitations List".

Part II – General FSL Tasks Phase-In

A. With the exception of FSL task numbers FSL-02 and FSL-17, use the following phase-in schedule:

Phase-in time for all aeroplanes that have accumulated 4000 hour air time or more, or 24 months or more since new, as of the effective date of the Original Issue of this AD (3 January 2008):

Within 2000 hours air time or 12 months, whichever occurs first, from the effective date of the Original Issue of this AD (3 January 2008), carry out the initial inspection of those FSL tasks with 6000 hours air time or 36 months inspection interval.

B. Phase-in time for all aeroplanes that have accumulated 12 000 hours air time or more, or 72 months or more since new, as of the effective date of the Original Issue of this AD (3 January 2008):

Within 6000 hours air time or 36 months, whichever occurs first, from the effective date of the Original Issue of this AD (3 January 2008), carry out the initial inspection of those FSL tasks with 18 000 hours air time or 108 months inspection interval.

Part III – Phase-In for FSL Task Numbers FSL-02 and FSL-17

Carry out the initial inspection of FSL task number FSL-02 and the initial functional check of FSL task number FSL-17 using the following phase-in schedule:

A. Applicable to aeroplane serial numbers 003 through 624:

1. For aeroplanes that have incorporated all the applicable Modsums in Table 1 of this AD before the effective date of AD CF-2013-07 (14 March 2013), within 6000 hours air time or 36 months from the effective date of Revision 1 of this AD (14 March 2013).
2. For aeroplanes that have not incorporated all the applicable Modsums in Table 1 of this AD before the effective date of AD CF-2013-07 (14 March 2013), after incorporation of all the applicable Modsums in Table 1 of this AD, but before further flight.

Table 1

Aeroplane configurations (can be a combination of the configurations listed here)	Applicable Modsums
All aeroplanes	8Q101512 and 8Q101865
Aeroplanes with APU option	8Q902144
Aeroplanes with a long range fuel system installed	8Q902091

B. Applicable to aeroplane serial number 626:

1. If Modsum 8Q902091 has been incorporated before the effective date of AD CF-2013-07 (14 March 2013), within 6000 hours air time or 36 months from the effective date of Revision 1 of this AD (14 March 2013).
2. If Modsum 8Q902091 has not been incorporated before the effective date of AD CF-2013-07 (14 March 2013), after incorporation of Modsum 8Q902091, but before further flight.

C. Applicable to all other aeroplane serial numbers:

There is no applicable phase-in. Carry out the initial inspection of FSL task number FSL-02 and the initial functional check of FSL task number FSL-17 in accordance with the published task intervals listed in the applicable Maintenance Program Manual.

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

ORIGINAL SIGNED BY

Derek Ferguson
Chief, Continuing Airworthiness

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