



No.	CF-2013-41	1/2
Issue Date	30 December 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-2013-41

Subject: FIREEX Check Tee Fitting - Incorrect Assembly

Effective: 13 January 2014

Applicability: Bombardier Inc. model BD-700-1A10 and BD-700-1A11 aeroplanes, serial numbers 9002 through 9500 and 9998.

Compliance: Within 100 hours air time or 180 days, whichever occurs first, from the effective date of this AD, unless already accomplished.

Background: A check tee fitting used in the aeroplane fire extinguishing (FIREEX) distribution lines, was discovered by another airframe manufacturer as being incorrectly assembled. A properly assembled check tee fitting normally contains one check ball, however the affected fitting contained two check balls. The FIREEX manufacturer advised Bombardier that this condition may be present on aeroplane models BD-700-1A10 and BD-700-1A11.

Testing has verified that incorrect installation of the additional check ball in the fitting reduces the flow rate of the extinguishing agent. There are three check tee fittings installed on the BD-700-1A10 and BD-700-1A11 aeroplanes, one for each engine and one for the auxiliary power unit. Faulty fittings will reduce fire extinguishing protection at the affected locations.

Bombardier has issued several Alert Service Bulletins (ASBs) to identify, inspect and replace if required, all affected fittings. This AD mandates incorporation of the applicable Bombardier ASBs to rectify this problem.

Corrective Actions: **Part I - Serial Number Verification:**

Inspect and verify the serial number of the FIREEX check tee fitting, part number 446651, in accordance with the Accomplishment Instructions of the applicable Bombardier ASB as shown in the table below:

Aeroplane Model	Applicable Alert Service Bulletins
BD-700-1A10	A700-26-010 Basic Issue dated 18 April 2013, or later revision approved by the Chief, Continuing Airworthiness, Transport Canada, or A700-26-6002 Basic Issue dated 18 April 2013, or later revision approved by the Chief, Continuing Airworthiness, Transport Canada.
BD-700-1A11	A700-1A11-26-003 Basic Issue dated 18 April 2013, or later revision approved by the Chief, Continuing Airworthiness, Transport Canada, or A700-26-5002 Basic Issue dated 18 April 2013, or later revision 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

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- A. For aeroplanes that have identified a FIREEX check tee fitting part number 446651 with a serial number listed in the following table, accomplish Part II of this AD.

Serial Numbers
062 to 070
117 to 133
3728 to 3731
3733 to 3760
3762 to 3776

- B. For aeroplanes that have not identified a FIREEX check tee fitting part number 446651 with a serial number listed in the above table, no further action is required by this AD.

Part II - Inspection and Replacement of the Check Tee Fitting

Inspect the affected check tee fitting identified in Part I.A. of this AD, and replace if required, in accordance with the Accomplishment Instructions of the applicable Bombardier ASB as shown in the table below:

Aeroplane Model	Applicable Alert Service Bulletins
BD-700-1A10	A700-26-010 Basic Issue dated 18 April 2013, or later revision approved by the Chief, Continuing Airworthiness, Transport Canada, or A700-26-6002 Basic Issue dated 18 April 2013, or later revision approved by the Chief, Continuing Airworthiness, Transport Canada.
BD-700-1A11	A700-1A11-26-003 Basic Issue dated 18 April 2013, or later revision approved by the Chief, Continuing Airworthiness, Transport Canada, or A700-26-5002 Basic Issue dated 18 April 2013, or later revision approved by the Chief, Continuing Airworthiness, Transport Canada.

Authorization: For the Minister of Transport,

ORIGINAL SIGNED BY

Robin Lau
Acting Chief, Continuing Airworthiness

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