



AIRWORTHINESS DIRECTIVE

This Airworthiness Directive (AD) is issued pursuant to Canadian Aviation Regulation (CAR) 521.427. No person shall conduct a take-off or permit a take-off to be conducted in an aircraft that is in their legal custody and control, unless the requirements of CAR 605.84 pertaining to ADs are met. Standard 625 - Aircraft Equipment and Maintenance Standards Appendix H provides information concerning alternative means of compliance (AMOC) to ADs.

Number:

CF-2015-25

Effective Date:

10 September 2015

ATA:

35

Type Certificate:

A-177

Subject:

Oxygen – Oxygen System Flexible Hose – Incorrect Burst Pressure

Applicability:

Bombardier Inc. model BD-700-1A10 and BD-700-1A11 aeroplanes, serial numbers (S/Ns) 9002 through 9704 and 9998.

Compliance:

Within 2500 hours air time or 42 months, whichever occurs first, from the effective date of this AD, unless already accomplished.

Background:

A design review found that the burst pressure of the flexible hose used to vent oxygen from the high-pressure relief valve of the oxygen cylinder overboard is lower than the opening pressure of the high-pressure relief valve. This could cause the flexible hose to burst before it is able to vent the excess oxygen overboard. If an ignition source is present, the accumulation of oxygen in an enclosed space may result in an uncontrolled oxygen-fed fire.

This AD mandates the replacement of the oxygen hose assembly with a new design oxygen hose assembly.

Corrective Actions:

Part I – Modification

Incorporate Modsum R700T400542 to replace the crew oxygen flexible relief hoses. Applicable Bombardier Service Bulletins (SB), or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada, as shown in the table below, provide approved instructions for incorporating Modsum R700T400542:

Aeroplane Model	Bombardier SB	Date
BD-700-1A10	700-35-013, Revision 1	22 July 2015
	700-35-6001, Revision 1	22 July 2015
BD-700-1A11	700-1A11-35-012, Revision 1	22 July 2015
	700-35-5001, Revision 1	22 July 2015

Aeroplanes with serial numbers listed in Table 1 of Paragraph 1, Planning information, of the above-mentioned SBs have incorporated Modsum R700T400542 and meet the requirements of Part I of this AD.

The Basic Issue of the above-mentioned SBs, dated 20 February 2015, also provide approved instructions for incorporating Modsum R700T400542.

Part II – Spares

As of the effective date of this AD, it is prohibited for anyone to install oxygen hoses in the low pressure/high pressure discharge system with part numbers listed in the “Used Part No.” column of Section 3.A, Kit, of the applicable above-mentioned SBs.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Rémy Knoerr
Chief, Continuing Airworthiness
Issued on 27 August 2015

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.