



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) with ADs.

Number:

CF-2021-40

Effective Date:

3 December 2021

ATA:

35

Type Certificate:

A-177

Subject:

Oxygen – Oxygen Service Compartment Insufficient Water Drainage

Applicability:

Bombardier Inc. model BD-700-2A12 aeroplanes, serial numbers 70006 through 70059.

Compliance:

Within 25 months from the effective date of this AD, unless already accomplished.

Background:

During production activities on multiple aeroplanes, significant water accumulation was discovered in the oxygen service compartment. An investigation concluded that this compartment had insufficient means of water drainage. If left uncorrected, the freeze/thaw cycle of accumulated water may damage oxygen connections inside the compartment, leading to oxygen leakage and risk of fire in the presence of an ignition source.

To address this unsafe condition, this AD requires a modification to the oxygen service compartment door to introduce a means of water drainage.

Corrective Actions:

Modify the oxygen service compartment door in accordance with Part A of the Accomplishment Instructions of Bombardier Service Bulletin (SB) 700-52-7508 Revision 1, dated 13 January 2021, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Note: this AD does not require Part B of the Accomplishment Instructions (rework of the passenger door switch access panel) of the above-mentioned SB to be completed.

Modification of the oxygen service compartment door, prior to the effective date of this AD, in accordance with Part A of the Accomplishment Instructions of SB 700-52-7508 Basic Issue, dated 27 October 2020, also meets the requirements of this AD.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Rémy Knoerr
Chief, Continuing Airworthiness
Issued on 19 November 2021

Contact:

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