



## 適航指令發布單

### Airworthiness Directive Issuance Form

民航局 AD 編號 AD number	CAA-2021-12-002	發布日期 Date issued	2021/12/6
適用之航空產品 Applied to (models, serial numbers or part numbers, as applicable)	Bombardier Inc. model BD-700-2A12 aeroplanes, serial numbers 70006 through 70059.		
主旨摘要	Oxygen - Oxygen Service Compartment Insufficient Water Drainage		
民航局 CAA <input type="checkbox"/> 本國產品 Native products <input type="checkbox"/> 其他個案 Other	設計國民航主管機構 Original Authorities <div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <input type="checkbox"/> FAA  <input type="checkbox"/> EASA  <input type="checkbox"/> Brazil  <input checked="" type="checkbox"/> Transport Canada Civil Aviation  <input type="checkbox"/> DGAC             </div> <div style="width: 48%;"> <input type="checkbox"/> Germany LBA  <input type="checkbox"/> CAA-NL  <input type="checkbox"/> UK CAA  <input type="checkbox"/> Japan CAB  <input type="checkbox"/> CAA of Israel  <input type="checkbox"/> Other _____             </div> </div>		
	設計國 AD 編號 Original AD number	CF-2021-40	
	1. 直接採用原 AD 之內容?(Is the original AD directly adopted?) <input checked="" type="checkbox"/> 是(Yes) <input type="checkbox"/> 否(No) _ a. 生效日期另訂為(Re-specify the effective date as) : _____ b. 執行時限另訂為(Re-specify the compliance time or period as) : _____ 2. 使用人是否需要將 AD 執行結果向民航局提出報告?(Do Users need to report the status of compliance to the CAA?) <input type="checkbox"/> 是(Yes) <input checked="" type="checkbox"/> 否(No)		
備註 Note	Ref. Bombardier Service Bulletin 700-52-7508 Revision 1, dated 13 January 2021, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.		
註： 1. AD 內容後附。 2. 航空器產品使用人得向民航局提出豁免、替代符合方法、執行時限之展延之申請。 3. 如有任何問題，請聯絡交通部民用航空局初始適航科。Tel：(02)2349-6331~3, Fax：(02)2545-8464, e-mail： <a href="mailto:adcaa@mail.caa.gov.tw">adcaa@mail.caa.gov.tw</a> Note： 1. The AD text is enclosed. 2. Exemption, an alternative method of compliance or adjustment of the compliance time may be proposed to the CAA for approval. 3. For further information, please contact Civil Aeronautics Administration on Tel：(02)2349-6331~3, Fax：(02)2545-8464, e-mail： <a href="mailto:adcaa@mail.caa.gov.tw">adcaa@mail.caa.gov.tw</a>			



# AIRWORTHINESS DIRECTIVE

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*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:**

Daniel Gosselin, Continuing Airworthiness, Ottawa, telephone 888-663-3639, facsimile 613-996-9178 or e-mail [TC.AirworthinessDirectives-Consignesdenavigabilite.TC@tc.gc.ca](mailto:TC.AirworthinessDirectives-Consignesdenavigabilite.TC@tc.gc.ca) or any Transport Canada Centre.