



## 適航指令發布單

### Airworthiness Directive Issuance Form

民航局 AD 編號 AD number	CAA-2021-04-017	發布日期 Date issued	2021/5/4
適用之航空產品 Applied to (models, serial numbers or part numbers, as applicable)	BD-700-1A10 and BD-700-1A11 aeroplanes, serial numbers 9002 through 9879, and 9998.		
主旨摘要	Oxygen - Supply System Flexible Oxygen Hose - Inspection and Replacement		
<div style="text-align: center;">民航局 CAA</div> <input type="checkbox"/> 本國產品 Native products  <input type="checkbox"/> 其他個案 Other	<div style="text-align: center;">設計國民航主管機構 Original Authorities</div> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <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: 50%;"> <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-2021-17	
	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) : _____ <input type="checkbox"/>		
	2. 使用人是否需要將 AD 執行結果向民航局提出報告?(Do <input type="checkbox"/> 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	ATA 35. SB References: BD-700-1A10 700-35-6501 28 September 2020 and BD-700-1A10 700-35-015 28 September 2020 and BD-700-1A10 700-35-6005 28 September 2020 and BD-700-1A11 700-1A11-35-014 28 September 2020 and BD-700-1A11 700-35-5005 28 September 2020.		
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

*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-2021-17

**Effective Date:**

12 May 2021

**ATA:**

35

**Type Certificate:**

A-177

**Subject:**

Oxygen – Supply System Flexible Oxygen Hose – Inspection and Replacement

**Applicability:**

Bombardier Inc. model BD-700-1A10 and BD-700-1A11 aeroplanes, serial numbers 9002 through 9879, and 9998.

**Compliance:**

As indicated below, unless already accomplished.

**Background:**

Oxygen leaks have been found during scheduled maintenance tests of the aircraft oxygen system. Further investigation of the leaks found oxygen hoses that were cracked, brittle or broken. This condition was found to exist on multiple aircraft. The oxygen hose material has been found to deteriorate over time and the condition is limited to hoses fabricated by O2 Corporation, identifiable by a specific series of part numbers. A leak in the oxygen line may result in failure to provide oxygen to passengers and crew as well as resulting in an oxygen enriched atmosphere creating a fire risk.

Bombardier Inc. has issued service bulletins (SBs) to inspect installed oxygen hoses, and to remove and replace the affected hose series with new specified hose series. Depending on the age and location of the hoses, repetitive testing is required until removal and replacement with specified hoses is accomplished.

This AD is issued to address this condition on certain aeroplanes. However, this condition may exist on other aircraft that have hoses made from age-sensitive elastomer materials. The Federal Aviation Administration issued Special Airworthiness Information Bulletin (SAIB) NM-13-34, dated 23 May 2013, and Transport Canada will issue a Civil Aviation Safety Alert (CASA) to communicate information regarding this condition.

**Corrective Actions:**

**Part I – Inspection, Testing and Replacement**

Within 6 months from the effective date of this AD, complete the inspection of the hose assembly installations in accordance with the Accomplishment Instructions of the applicable SB, as identified in Table 1 below, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

If O2C20T1 series of hoses are not found on the aeroplane during this inspection, no further action is required.

If O2C20T1 series of hoses are found, replacement of the hoses is required. Remove and replace the O2C20T1 series hoses in accordance with the instructions and compliance times specified in the Accomplishment Instructions of the applicable SB. Perform interim oxygen system testing for hoses that are not immediately replaced, as specified in the applicable SBs.

**Table 1: SB References**

Aeroplane Model	Bombardier SB	Issue Date
BD-700-1A10	700-35-6501	28 September 2020
BD-700-1A10	700-35-015	28 September 2020
BD-700-1A10	700-35-6005	28 September 2020
BD-700-1A11	700-1A11-35-014	28 September 2020
BD-700-1A11	700-35-5005	28 September 2020

**Part II – Installation Prohibition of Affected Parts**

From the effective date of this AD, O2C20T1 series of hoses are not eligible for installation as a replacement part on model BD-700-1A10 and BD-700-1A11 aeroplanes.

**Authorization:**

For the Minister of Transport,

*ORIGINAL SIGNED BY*

Rémy Knoerr  
Chief, Continuing Airworthiness  
Issued on 28 April 2021

**Contact:**

Christopher Banken, 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.