



# 適航指令發布單

## Airworthiness Directive Issuance Form

民航局AD編號 AD number	CAA-2024-09-002A	發布日期 Date issued	2024/12/20
適用之航空產品 Applied to (models, serial numbers or part numbers, as applicable)	Bombardier Inc. model CL-600-2B16 aeroplanes, all serial numbers.		
主旨摘要 Subject	Flight Controls - Flap System On-Board Recorder (FSOBR) effects on Flap Control Unit		
民航局 CAA	設計國民航主管機構 Original Authority		
<input type="radio"/> 本國產品 Native product	<input type="radio"/> FAA <input type="radio"/> Germany LBA <input type="radio"/> EASA <input type="radio"/> CAA-NL <input type="radio"/> Brazil <input type="radio"/> UK CAA <input checked="" type="radio"/> Transport Canada Civil Aviation <input type="radio"/> Japan CAB <input type="radio"/> DGAC <input type="radio"/> CAA of Israel <input type="radio"/> Other_____		
<input type="radio"/> 其他個案 Other			
	設計國AD編號 Original AD number	CF-2024-31R1	
	1. 直接採用原AD之內容? (Is the original AD directly adopted?) <input checked="" type="radio"/> 是(Yes) <input type="radio"/> 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="radio"/> 需要(Yes) <input checked="" type="radio"/> 不需要(No)		
備註 Note	Supersedes AD CF-2024-31(CAA-2024-09-002), issued 09 September 2024		

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)2349-6330 / 6332, Fax：(02)2545-8464,

[adcaa@mail.caa.gov.tw](mailto:adcaa@mail.caa.gov.tw)

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 Aviation Administration on Tel：(02)2349-6330 / 6332,

Fax：(02)2545-8464, [adcaa@mail.caa.gov.tw](mailto:adcaa@mail.caa.gov.tw)



# 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-2024-31R1

**Effective Date:**

31 December 2024

**ATA:**

27

**Type Certificate:**

A-131

**Subject:**

Flight Controls – Flap System On-Board Recorder (FSOBR) effects on Flap Control Unit

**Revision:**

Supersedes AD CF-2024-31, issued 09 September 2024

**Applicability:**

Bombardier Inc. model CL-600-2B16 aeroplanes, all serial numbers.

**Compliance:**

Within 1000 hours air time or 14 months, whichever occurs first, from the effective date of the original issue of this AD, dated 23 September 2024, unless already accomplished.

**Background:**

The FSOBR was introduced in 2015 as an option through Service Bulletin (SB) 604-27-035, SB 605-27-006 and SB 650-27-001 for customers to facilitate troubleshooting on flap system failures. The FSOBR interfaces with the Flap Control Unit Input/Output (I/O) signals and may result in the Flap Control Unit monitors tripping, causing Flap Fail messages and possibly an uncommanded flap movement. When this event combines with other flap system failures, it can lead to an uncommanded flap runaway. This condition can lead to loss of control of the aeroplane. Subsequent investigations have shown that disconnecting the FSOBR eliminates this failure mode.

AD CF-2024-31 required the disconnection of the FSOBR and the prohibition of future installation of this system.

This AD, CF-2024-31R1, is issued to clarify which aeroplanes are required to perform the FSOBR disconnect in Part I of the Corrective Actions and otherwise maintains the requirements of AD CF-2024-31.

**Corrective Actions:**

**Part I – FSOBR Disconnection**

For aeroplanes that have incorporated SB 604-27-035, SB 605-27-006 or SB 650-27-001, Basic Issue, dated 17 December 2015, or any later revisions, disconnect the FSOBR in accordance with Section 2.B of the Accomplishment Instructions of the applicable SB listed in Table 1 below.

**Table 1 – SB References**

<b>Aeroplane Model (Marketing Designation)</b>	<b>Aeroplane Serial Number</b>	<b>Applicable SB</b>
CL-600-2B16 (Challenger 604)	5301 through 5665	604-27-041, Basic Issue, dated 20 May 2024, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada
CL-600-2B16 (Challenger 605)	5701 through 5988	605-27-012, Basic Issue, dated 20 May 2024, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada
CL-600-2B16 (Challenger 650)	6050 through 6999	650-27-005, Basic Issue, dated 20 May 2024, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada

**Part II – Part Installation Prohibition**

As of the effective date of the original issue of this AD, dated 23 September 2024, it is prohibited to re-connect or install the FSOBR Unit Part Number (P/N) (604-70201-1) or the FSOBR Harness P/N (604-57140-3) on the Bombardier Inc. model CL-600-2B16 aeroplanes, all serial numbers.

**Authorization:**

For the Minister of Transport,

*ORIGINAL SIGNED BY*

Jenny Young  
Chief, Continuing Airworthiness  
Issued on 17 December 2024

**Contact:**

Danilo Verrelli, 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.