



**適航指令發布單**  
**Airworthiness Directive Issuance Form**

民航局 AD 編號 AD number	CAA-2023-01-002	發布日期 Date issued	2023/1/10												
適用之航空產品 Applied to (models, serial numbers or part numbers, as applicable)	Bombardier Inc. model CL-600-2B16 (604 variant) aeroplanes, serial numbers 5301 through 5665, 5701 through 5988 and 6050 through 6174.														
主旨摘要 Subject	Flight Controls - Ground Spoilers - Deployment In Air														
民航局 CAA <input type="checkbox"/> 本國產品 Native product  <input type="checkbox"/> 其他個案 Other	<div style="text-align: center;">設計國民航主管機構 Original Authority</div> <table style="width: 100%;"><tr><td><input type="checkbox"/> FAA</td><td><input type="checkbox"/> Germany LBA</td></tr><tr><td><input type="checkbox"/> EASA</td><td><input type="checkbox"/> CAA-NL</td></tr><tr><td><input type="checkbox"/> Brazil</td><td><input type="checkbox"/> UK CAA</td></tr><tr><td><input checked="" type="checkbox"/> Transport Canada Civil Aviation</td><td><input type="checkbox"/> Japan CAB</td></tr><tr><td><input type="checkbox"/> DGAC</td><td><input type="checkbox"/> CAA of Israel</td></tr><tr><td></td><td><input type="checkbox"/> Other _____</td></tr></table>			<input type="checkbox"/> FAA	<input type="checkbox"/> Germany LBA	<input type="checkbox"/> EASA	<input type="checkbox"/> CAA-NL	<input type="checkbox"/> Brazil	<input type="checkbox"/> UK CAA	<input checked="" type="checkbox"/> Transport Canada Civil Aviation	<input type="checkbox"/> Japan CAB	<input type="checkbox"/> DGAC	<input type="checkbox"/> CAA of Israel		<input type="checkbox"/> Other _____
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<input type="checkbox"/> DGAC	<input type="checkbox"/> CAA of Israel														
	<input type="checkbox"/> Other _____														
	設計國 AD 編號 Original AD number	CF-2023-01													
	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	ATA 27. Ref. Amend the Transport Canada approved AFM as detailed in Table 1														

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, e-mail：[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 Aeronautics Administration on Tel：(02)2349-6330 / 6332, Fax：(02)2545-8464, e-mail：[adcaa@mail.caa.gov.tw](mailto:adcaa@mail.caa.gov.tw)



# 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-2023-01

**Effective Date:**

18 January 2023

**ATA:**

27

**Type Certificate:**

A-131

**Subject:**

Flight Controls – Ground Spoilers – Deployment In Air

**Applicability:**

Bombardier Inc. model CL-600-2B16 (604 variant) aeroplanes, serial numbers 5301 through 5665, 5701 through 5988 and 6050 through 6174.

**Compliance:**

Within 60 days from the effective date of this AD, unless already accomplished.

**Background:**

Bombardier investigated an in-service aircraft event during which ground spoilers deployed in air while the aeroplane was on approach to landing.

Bombardier's investigation of the event found that a combination of system faults and procedural actions resulted in this condition.

After take-off, the WOW (weight on wheels) INPUT Caution message had posted on the engine indication and crew alerting system (EICAS). The WOW INPUT message persisted throughout the flight even after the flight crew executed the WOW INPUT QRH (Quick Reference Handbook) procedure. During this time, the GND SPLRS (ground spoilers) NOT ARMED message also posted, and consequently, the flight crew manually armed the ground spoilers as required by the procedure for that message.

The investigation revealed that a fault had occurred in the proximity sensor electronic unit (PSEU), which erroneously indicated ON GROUND while the aircraft was in the air.

This AD mandates a revision to the Airplane Flight Manual (AFM) to incorporate additional instructions in the Ground Spoilers Unsafe and Weight-on-Wheels Input Fault Abnormal Procedures in order to prevent the ground spoilers deploying in air.

**Corrective Actions:**

- A. Amend the Transport Canada approved AFM as detailed in Table 1 below or later revisions of these procedures approved by Transport Canada.

**Table 1**

<b>Aeroplane Serial Number</b>	<b>AFM No</b>	<b>AFM Revision</b>
Model CL-600-2B16 (604 variant) Serial numbers 5301 through 5665	PSP 604-1	AFM Revision 125, dated 14 March 2022
Model CL-600-2B16 (604 variant) Serial numbers 5701 through 5988	PSP 605-1	AFM Revision 63, dated 14 March 2022
Model CL-600-2B16 (604 variant) Serial numbers 6050 through 6174	PSP 650-1	AFM Revision 28, dated 14 March 2022

- B. Advise all flight crews of the changes introduced by the approved Transport Canada AFM Revisions listed above and thereafter operate the aeroplane accordingly.

**Authorization:**

For the Minister of Transport,

*ORIGINAL SIGNED BY*

Jenny Young  
Chief, Continuing Airworthiness  
Issued on 4 January 2023

**Contact:**

Philip Lynch, 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.