



# 適航指令發布單

## Airworthiness Directive Issuance Form

民航局AD編號 AD number	CAA-2025-03-007	發布日期 Date issued	2025/03/14
適用之航空產品 Applied to (models, serial numbers or part numbers, as applicable)	Bombardier Inc. model BD-700-1A10 and BD-700-1A11 aeroplanes, all serial numbers.		
主旨摘要 Subject	Navigation - Minimum Equipment List (MEL) Item Prohibitions when Operating in Canada due to 3.45 to 3.98 GHz frequency band (5G C-Band) Wireless Broadband Interference		
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"/> 其他個案 Other	<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_____	
	設計國AD編號 Original AD number	CF-2025-15	
	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	ATA 34. Please refer to Transport Canada AD CF-2024-14(CAA-2024-05-008) or FAA AD 2023-10-02(CAA-2023-05-12)		

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

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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-2025-15

**Effective Date:**

19 March 2025

**ATA:**

34

**Type Certificate:**

A-177

**Subject:**

Navigation – Minimum Equipment List (MEL) Item Prohibitions when Operating in Canada due to 3.45 to 3.98 GHz frequency band (5G C-Band) Wireless Broadband Interference

**Applicability:**

Bombardier Inc. model BD-700-1A10 and BD-700-1A11 aeroplanes, all serial numbers.

**Compliance:**

Within 30 days from the effective date of this AD, unless already accomplished.

**Background:**

In July 2023, Innovation, Science and Economic Development Canada (ISED), Canada's spectrum regulator, published Standard Radio System Plans (SRSP)-520 Issue 3 and Radio Standard Specifications (RSS)-192 Issue 5. These publications define the spectrum environment for the 5G C-Band in Canada. The spectrum auctions for 5G C-Band in the 3.45 to 3.65 GHz (3.5 GHz) and the 3.65-3.9 GHz (3.8 GHz) band were completed in 2021 and 2023, respectively. Deployment in the 3.8 GHz to band may have started as early as May 2024. Furthermore, ISED recently concluded a consultation on non-competitive local licensing (NCL) framework for operation in the frequency bands of 3.9 to 3.98 GHz.

The frequency bands allocated to these services are close to those used by aeroplanes' radio altimeters (4.2 to 4.4 GHz). Transport Canada (TC) has determined that radio altimeters cannot be relied upon to perform their intended function if they experience interference from wireless broadband operations in the 5G C-Band. Based on ISED's resolutions regarding the Canadian spectrum environment, TC has determined that aeroplanes equipped with radio altimeters deemed compliant with the Federal Aviation Administration (FAA) AD 2023-10-02, are less susceptible to 5G interference in the Canadian environment, considering the existing spectrum mitigations. To protect aviation safety, TC issued AD CF-2024-14, which defines radio altimeter tolerant aeroplanes and mandates limitations of operations with non-tolerant radio altimeter when operating in the entire Canadian airspace.

Bombardier has determined that 5G C-Band broadband interference can result in unavailable or misleading radio altimeter information which, in combination with a weight-on-wheels (WOW) signal failure and dispatch under applicable MEL item could adversely affect the safe operation of the aeroplane during landing due to an inadvertent deployment of the two pairs of ground spoilers. TC is issuing this AD, CF-2025-15, to prohibit operation under certain MEL items where harmful interference due to 5G C-Band is possible. This AD, CF-2025-15, has similar requirements to CF-2023-44, which was issued to address risks in the U.S. 5G C-band environment.

Given the sunset of certain spectrum mitigations in January 2026 and January 2028, it is not certain that a standard can be established for radio altimeter tolerant aeroplanes to the full scope of 5G emissions permitted in Canada after January 2026. This AD, CF-2025-15, is considered an interim action, and further AD action may follow.

**Corrective Actions:****Part I – Definitions**

For the purpose of this AD, the following definitions apply:

**Radio Altimeter Tolerant Aeroplane** is one for which the radio altimeter, as installed, demonstrates the tolerances for emissions specified in Paragraph A and Paragraph B, Part I, of AD CF-2024-14, issued on 15 May 2024, using a method approved by the FAA or TC. Currently, aeroplanes that meet the requirements of the FAA definition of "radio altimeter tolerant airplane", as per Paragraph (g) Definitions of FAA AD 2023-10-02, are considered radio altimeter tolerant aeroplanes in Canada.

**Non-Radio Altimeter Tolerant Aeroplane** is one for which the radio altimeter, as installed, does not demonstrate the tolerances for emissions specified in Paragraph A and Paragraph B, Part I, of AD CF-2024-14, issued on 15 May 2024. Currently, aeroplanes that meet the requirements of the FAA definition of "non-radio altimeter tolerant airplane", as per Paragraph (g) Definitions of FAA AD 2023-10-02, are considered non-radio altimeter tolerant aeroplanes in Canada.

**Applicable MEL Item** refers to the MEL item corresponding with the MMEL item: Section 2 Crew Alerting System (CAS) Message Oriented Relief: CAS Indication WOW FAULT (Advisory).

**Part II – MEL Prohibitions**

- A. For Non-Radio Altimeter Tolerant Aeroplanes: it is prohibited to dispatch or release into or out of airports in the Canadian airspace under the applicable MEL item defined in this AD, CF-2025-15.
- B. For Radio Altimeter Tolerant Aeroplanes: it is prohibited to dispatch or release into or out of airports in the Canadian airspace under the applicable MEL item defined in this AD, CF-2025-15, unless operating at a 5G Protected Runway as identified in ISED's SRSP-520, Annex D: Definition of Exclusion Zone, Map of Exclusion Zones and Protection Zones.
- C. AMOCs approved with AD CF-2023-44 for the U.S. airspace are approved as AMOCs with this AD, CF-2025-15, for the Canadian airspace.

**Authorization:**

For the Minister of Transport,

*ORIGINAL SIGNED BY*

Jenny Young  
Chief, Continuing Airworthiness  
Issued on 5 March 2025

**Contact:**

João Falcão, 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.