



**AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL - BRAZIL**

## **BRAZILIAN AIRWORTHINESS DIRECTIVE**

**AD No.: 2024-05-07**

**Effective Date: 21 Jul. 2024**

The following Brazilian Airworthiness Directive (AD), issued by the Agência Nacional de Aviação Civil (ANAC) in accordance with provisions of Chapter IV, Title III of Código Brasileiro de Aeronáutica - Law No. 7,565 dated 19 December 1986 - and Regulamento Brasileiro da Aviação Civil (RBAC) 39, applies to all aircraft registered in the Registro Aeronáutico Brasileiro. No person may operate an aircraft to which this AD applies, unless it has previously complied with the requirements established herein.

### **AD No. 2024-05-07 - (BOMBARDIER) / 39-1558.**

#### **APPLICABILITY:**

(a) This Airworthiness Directive (AD) applies to BOMBARDIER airplane model BD-700-2A12, all serial numbers.

#### **CANCELLATION / REVISION:**

Not applicable.

#### **REASON:**

The reason for this AD is the finding of potential interference in radio altimeters from wireless broadband operations in the 3,300 MHz to 3,700 MHz frequency band (5G C-Band). Dispatch under a certain MMEL item, in combination with 5G interference and an additional failure, could affect the capacity of safe flight and landing of the airplane.

Since this condition may occur in other airplanes and affects flight safety, corrective action is required. Thus, sufficient reason exists to mandate compliance with this AD in the indicated time limit.

#### **REQUIRED ACTION:**

Airplane Flight Manual (AFM) Revision

#### **COMPLIANCE:**

Required as indicated below, unless already accomplished.

#### **(b) Airplane Flight Manual Revision**

**(1)** For airplanes identified in paragraph **(a)** of this AD, that do not meet the criteria for a “radio altimeter tolerant aircraft”, as established by PORTARIA No. 14.318/SAR, de 10 de abril de 2024, or further Portaria that supersedes it, within

10 days after the effective date of this AD, revise the Limitations Section of the existing AFM to include the following information:

**Radio Altimeter 5G C-Band Interference MMEL Restriction**

Due to the presence of 5G C-Band wireless broadband interference, dispatch or release is prohibited under the following MMEL items in the Brazilian airspace.

**Section One – Line Replaceable Unit (LRU) Component Relief**

- 32-43-33 - MAIN WHEEL AXLE-INTERFACE-MODULE/WHEEL SPEED TRANSDUCER 1) WHEEL SPEED TRANSDUCER
- 32-61-09 – MAIN LANDING GEAR WEIGHT ON WHEELS PROXIMITY SWITCHES
- 34-44-00 – RADIO ALTIMETER SYSTEM

**Section Two – Crew Alerting System (CAS) Message Relief:**

- 27-0645 – 27 FLT CTRL – PFCC BCU INPUT REDUND LOSS
- 27-0660 – 27 FLT CTRL – PFCC LGSCU INPUT REDUND LOSS
- 27-0665 – 27 FLT CTRL – PFCC RAD ALT INPUT REDUND LOSS
- 32-0048 – 32 GEAR – GEAR WOW / WOFFW REDUND LOSS
- 32-1005 – ANTISKID DEGRADED (CAUTION)
- 34-1200 – RAD ALT 1 FAIL (Advisory)

**NOTE 1:** The AFM alteration required by this AD may be accomplished by inserting a copy of this AD into the Aircraft Flight Manual.

**NOTE 2:** For the purpose of this AD, a “radio altimeter tolerant aircraft” is the one for which ANAC accepts that the combination airplane-radio altimeter demonstrates tolerance to the limits specified in this PORTARIA No. 14.318/SAR, de 10 de abril de 2024, or further Portaria that supersedes it.

**(2)** For airplanes identified in paragraph **(a)** of this AD, that are defined as “radio altimeter tolerant aircraft”, according to the established by PORTARIA No. 14.318/SAR, de 10 de abril de 2024, or further Portaria that supersedes it, no action is required by paragraph **(b)**.

**(c) Terminating Action to the AFM Revision**

Modification of a “non-radio altimeter tolerant aircraft” to a “radio altimeter tolerant aircraft”, according to PORTARIA No. 14.318/SAR, de 10 de abril de 2024, or further Portaria that supersedes it, terminates the limitations required by paragraph **(b)(1)** of this AD. After modification to a “radio altimeter tolerant aircraft”, according to PORTARIA No. 14.318/SAR, de 10 de abril de 2024, or further Portaria that supersedes it, remove the AFM revision required by paragraph **(b)(1)** of this AD.

**(d) Compliance with PORTARIA No 14.318/SAR, de 10 de abril de 2024, or further Portaria that supersedes it.**

For the purpose of this AD, the acceptance of the combination airplane - radio altimeter as a "radio altimeter tolerant aircraft" depends on evidence provided to demonstrate the tolerance limits established in PORTARIA No. 14.318/SAR, de 10 de abril de 2024, or further Portaria that supersedes it. These data should be submitted to ANAC through the e-mail 5g@anac.gov.br. The acceptance by ANAC of the airplane-radio altimeter combination as "radio altimeter tolerant aircraft" will be indicated through an ANAC Ofício to the operator or manufacturer, or an ANAC Portaria listing the configurations accepted by ANAC as "radio altimeter tolerant aircraft".

**(e) Reporting of events**

Report any anomalies in the radio altimeter to ANAC through the email 5g@anac.gov.br, providing the following information:

- (i) Date
- (ii) Aircraft and radio altimeter model
- (iii) Phase of flight
- (iv) Location where the anomaly occurred
- (v) Transient or permanent anomaly

**(f) Alternative methods of compliance (AMOCs).**

A different method or a different compliance time from the requirements of this AD may be used if approved by the Manager of the Continuing Airworthiness Technical Branch (GTAC) of ANAC.

Record compliance with this AD in the applicable maintenance log book.

**CONTACT:**

For additional technical information, contact:

National Civil Aviation Agency (ANAC)  
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**APPROVAL:**

ROBERTO JOSÉ SILVEIRA HONORATO  
Head of Airworthiness Department  
ANAC

**NOTA:** Original in Portuguese language signed and available in the files of the Continuing Airworthiness Technical Branch (GTAC) of the National Civil Aviation Agency (ANAC).

