

**NOTICE OF PROPOSED REGULATION
BRAZILIAN AIRWORTHINESS DIRECTIVES**

**REPÚBLICA FEDERATIVA DO BRASIL
AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL – ANAC
Gerência Geral de Certificação de Produto Aeronáutico**

Reference: NPR/AD 2023-BD700-02

Date: 29 Dec. 2023

In accordance with the provisions of RBAC 11, The Continuing Airworthiness Technical Branch (GTAC) is proposing the issuance of a Brazilian Airworthiness Directive applicable to the aeronautical product referred below.

*All the persons interested may send their comments until the date specified in item 2, indicating the **Reference** above, to the following address:*

*National Civil Aviation Agency (ANAC) – Continuing Airworthiness Technical Branch (GTAC)
Rua Doutor Orlando Feirabend Filho, nº 230
Centro Empresarial Aquáriu - Torre B - 14 o ao 18 o andares
Parque Residencial Aquáriu
12246-190 – São José dos Campos – SP - Tel.: (12) 3203-6600 - E-mail: pac@anac.gov.br.*

1. Proposer: Continuing Airworthiness Technical Branch (GTAC).

2. Comments: Must be received until 31 Mar. 2024.

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 MEL 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 request 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 airplanes”, as established by PORTARIA Nº 13.365/SAR, de 14 de dezembro de 2023, 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, Takeoff and Landing Performance

Due to the presence of 5G C-Band wireless broadband interference, the following limitations are required to dispatch or release to airports, and takeoff and landing on runways, in the Brazilian airspace.

Minimum Equipment List (MEL)

Dispatch or release with the following MEL itens is prohibited:

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 airplane” is the one for which ANAC accepts that the combination airplane-radio altimeter demonstrates tolerance to the limits specified in this PORTARIA N^o 13.365/SAR, de 14 de dezembro de 2023.

- (2) For airplanes identified in paragraph (a) of this AD, that are defined as “radio altimeter tolerant airplanes”, according to the established by PORTARIA N^o 13.365/SAR, de 14 de dezembro de 2023, no action is required.

(c) Terminating Action to the AFM Revision

Modification of a “non-radio altimeter tolerant airplane” to a “radio altimeter tolerant airplane”, according to PORTARIA N^o 13.365/SAR, de 14 de dezembro de 2023, terminates the limitations required by paragraphs (b)(1) of this AD. After modification to a “radio altimeter tolerant airplane”, according to PORTARIA N^o 13.365/SAR, de 14 de dezembro de 2023, remove the AFM revision required by paragraphs (b)(1) of this AD.

(d) Compliance with PORTARIA N^o 13.365/SAR, de 14 de dezembro de 2023.

For the purpose of this AD, the acceptance of the combination airplane-radio altimeter as a “radio altimeter tolerant airplane” depends on the data provided to demonstrate the tolerance limits established in PORTARIA N^o 13.365/SAR, de 14 de dezembro de 2023. These data should be submitted to ANAC through 5g@anac.gov.br.

(e) 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.

(f) Additional information

For questions or further information, please contact pac@anac.gov.br