



PORTARIA N° 18809/SAR, DE 13 DE FEVEREIRO DE 2026.

Provides a list of radio altimeter tolerant aircraft, according to the definition established by PORTARIA No. 14318, dated April 10th, 2024.

THE HEAD OF THE AIRWORTHINESS DEPARTMENT, in the exercise of the powers conferred upon it by Article 35, item b of Section XXII of RESOLUÇÃO No. 381, de 14 de Junho de 2016,

DECIDES TO:

Art. 1° Provide a list of airplane-radio altimeter combinations evaluated by Anac and considered "radio altimeter tolerant aircraft", according to the definition established by PORTARIA No. 14318, dated April 10th, 2024.

Art. 2° This PORTARIA may be used as evidence of Anac's acceptance of the airplane-radio altimeter combination as "radio altimeter tolerant aircraft" for compliance with Anac's Airworthiness Directives

Art. 3° PORTARIA n° 15038/SAR, dated July 15th, 2024, published in Diário Oficial da União, dated July 24th, 2024, Section 1, page 70, is hereby revoked.

Art. 4° This PORTARIA is effective on the date of its publication.

NOTE: Original in the Portuguese language available at <https://www.anac.gov.br/assuntos/legislacao/legislacao-1/portarias/2026/portaria-18809>

Signed by:

ROBERTO JOSÉ SILVEIRA HONORATO

ANNEX I

PORTARIA no. 14318, dated April 10th, 2024, establishes that a radio altimeter tolerant aircraft is the one for which Anac considers that the radio altimeter, as installed in the aircraft, demonstrates tolerance to the specified in this PORTARIA Annex.

For the purpose of compliance with Airworthiness Directives published by Anac related to the 5G environment, Anac, although aware of the different frequency band compared to the U.S. environment, considers that compliance with US Groups 3A, 3B and 4 is accepted to establish a radio altimeter tolerant aircraft provided the evidence of compliance with the susceptibility curve associated with specific group is submitted to ANAC.

Evidence of compliance with the tolerance defined in PORTARIA No. 14318 or the susceptibility curve associated with a specific US group has been evaluated and Anac has determined that all airplane–radio altimeter combinations listed in tables 1 through 29 below are “radio altimeter tolerant aircraft” for compliance with Airworthiness Directives published by Anac related to the 5G environment.

AIRCRAFT MANUFACTURER	RA MANUFACTURER	RA MODEL	AIRCRAFT MODEL	RA PART NUMBER
AIRBUS	COLLINS	LRA-900+	A300-600ST	822-0334-021
			A300-600 Series	
			A310 Series	
			A318 Series	
			A319 Series	
			A320 Series	
			A321 Series	
			A330-200 Series	
			A330-200 Freighther Series	
			A330-300 Series	
			A330-800 Series	
			A330-900 Series	
			A340-200 Series	
			A340-300 Series	
A340-500 Series				
A340-600 Series				

Table 1 – Radio Altimeter Tolerant Aircraft (Airbus/LRA-900+)

AIRCRAFT MANUFACTURER	RA MANUFACTURER	RA MODEL	AIRCRAFT MODEL	RA PART NUMBER
AIRBUS	COLLINS	LRA-2100	A318 Series	822-2365-02X 822-2365-03X
			A319 Series	
			A320 Series	
			A321 Series	
			A330-200 Series	
			A330-200 Freighter Series	
			A330-300 Series	
			A330-743L	
			A330-900	
			A350-941	
			A350-1041	

Table 2 – Radio Altimeter Tolerant Aircraft (Airbus/LRA-2100)

AIRCRAFT MANUFACTURER	RA MANUFACTURER	RA MODEL	AIRCRAFT MODEL	RA PART NUMBER
AIRBUS	HONEYWELL AEROSPACE	ALA-52B	A318 Series	066-50007-0202 066-50007-0212 066-50007-0222 066-50007-0232 066-50007-0432
			A319 Series	
			A320 Series	
			A321 Series	
			A330-200 Series	
			A330-200 Freighter Series	
			A330-300 Series	
			A330-800 Series	
			A330-900 Series	
			A340-200 Series	
			A340-300 Series	
			A340-500 Series	
			A340-600 Series	

Table 3 – Radio Altimeter Tolerant Aircraft (Airbus/ALA-52B)

AIRCRAFT MANUFACTURER	RA MANUFACTURER	RA MODEL	AIRCRAFT MODEL	RA PART NUMBER
AIRBUS	THALES	ERT-530R	A300-600 Series	9599-607-24942 9599-607-24943
			A310 Series	
			A318 Series	
			A319 Series	
			A320 Series	
			A321 Series	

Table 4 – Radio Altimeter Tolerant Aircraft (Airbus/ERT-530R)

AIRCRAFT MANUFACTURER	RA MANUFACTURER	RA MODEL	AIRCRAFT MODEL	RA PART NUMBER
AIRBUS	THALES	ERT-540R	A330-200 Series	9599-607-29504
			A330-200 Freighter Series	
			A330-300 Series	
			A330-800 Series	
			A330-900 Series	
			A340-200 Series	
			A340-300 Series	
			A340-500 Series	
A340-600 Series				

Table 5 – Radio Altimeter Tolerant Aircraft (Airbus/ERT-540R)

AIRCRAFT MANUFACTURER	RA MANUFACTURER	RA MODEL	AIRCRAFT MODEL	RA PART NUMBER
AIRBUS	THALES	ERT-550R	A380-800 Series	9599-607-29998

Table 6 – Radio Altimeter Tolerant Aircraft (Airbus/ERT-550R)

AIRCRAFT MANUFACTURER	RA MANUFACTURER	RA MODEL	AIRCRAFT MODEL	RA PART NUMBER
AIRBUS	COLLINS	LRA-900*	A300-600 Series	822-0334-020
			A310	
			A318 Series	
			A319 Series	
			A320 Series	
			A321 Series	
			A330-200 Series	
			A330-200 Freighter Series	
			A330-300 Series	
			A330-800 Series	
			A330-900 Series	
A340 Series				

*Except if they are fitting with antenna 437X-1 PN 522-4100-0001

Table 7 - Radio Altimeter Tolerant Aircraft (Airbus/LRA-900)

AIRCRAFT MANUFACTURER	RA MANUFACTURER	RA MODEL	AIRCRAFT MODEL	RA PART NUMBER
AIRBUS	COLLINS	LRA-700*	A300-600 Series	622-4542-xxx
			A300-600ST	
			A310 Series	
			A320 Series	

*Except if they are fitting with antenna 437X-1 PN 522-4100-0001

Table 8 - Radio Altimeter Tolerant Aircraft (Airbus/LRA-700)

AIRCRAFT MANUFACTURER	RA MANUFACTURER	RA MODEL	AIRCRAFT MODEL	RA PART NUMBER
BOEING	HONEYWELL AEROSPACE	ALA-52A	MD-11	2041166-5214
			747 (all series)	2041166-5207
			757 (all series)	2041166-5203 2041166-5204 2041166-5205 2041166-5206
			767 (all series)	2041166-5203 2041166-5204 2041166-5205 2041166-5206

Table 9 - Radio Altimeter Tolerant Aircraft (Boeing/ALA-52A)

AIRCRAFT MANUFACTURER	RA MANUFACTURER	RA MODEL	AIRCRAFT MODEL	RA PART NUMBER
BOEING	HONEYWELL AEROSPACE	ALA-52B	717-200	066-50007-0303
			737 (all series)	066-50007-0101 066-50007-0111 066-50007-0531 066-50007-0631
			747 (all series) 757 (all series)	066-50007-0101 066-50007-0111 066-50007-0631[1]
			767 (all series)	066-50007-0101 066-50007-0111 066-50007-0531 066-50007-0631[2]
			777 (all series)	066-50007-0101 066-50007-0111 066-50007-0531 066-50007-0631
			787 (all series)	066-50007-1311 066-50007-1531

[1] Modified by Envoy Aerospace STC ST04256CH

[2] Modified by Honeywell International STC ST02795LA

Table 10 - Radio Altimeter Tolerant Aircraft (Boeing/ALA-52B)

AIRCRAFT MANUFACTURER	RA MANUFACTURER	RA MODEL	AIRCRAFT MODEL	RA PART NUMBER
BOEING	COLLINS	860F-4	DC-9	622-3890-003/-014
			MD-88	622-3890-003/-014
			MD-90	622-3890-003/-014
			707 (all series)	622-3890-004
			727 (all series)	622-3890-002 622-3890-003 622-3890-004 622-3890-006 622-3890-014
			737 (all series)	622-3890-002 622-3890-003 622-3890-004 622-3890-014 622-3890-020 622-3890-021
			747 (all series)	622-3890-002 622-3890-003 622-3890-004 622-3890-014 622-3890-102 622-3890-103 622-3890-114

Table 11 - Radio Altimeter Tolerant Aircraft (Boeing/860F-4)

AIRCRAFT MANUFACTURER	RA MANUFACTURER	RA MODEL	AIRCRAFT MODEL	RA PART NUMBER
BOEING	COLLINS	LRA-900	MD-10	822-0334-220 822-0334-221
			MD-11	822-0334-220 822-0334-221
			737 (all series)	822-0334-002 822-0334-003
			747 (all series)	822-0334-002 822-0334-003
			757 (all series)	822-0334-002
			767 (all series)	822-0334-002
			777 (all series)	822-0334-002 822-0334-003

Table 12 - Radio Altimeter Tolerant Aircraft (Boeing/LRA-900)

AIRCRAFT MANUFACTURER	RA MANUFACTURER	RA MODEL	AIRCRAFT MODEL	RA PART NUMBER
BOEING	COLLINS	LRA-700	MD-11	622-4542-221 622-4542-222
			747 (all series)	622-4542-120
			757 (all series)	622-4542-102 622-4542-103 622-4542-120
			767 (all series)	622-4542-102 622-4542-103 622-4542-120

Table 13 - Radio Altimeter Tolerant Aircraft (Boeing/LRA-700)

AIRCRAFT MANUFACTURER	RA MANUFACTURER	RA MODEL	AIRCRAFT MODEL	RA PART NUMBER
BOEING	THALES	ERT-550	737 (all series)	9599-607-19992 9599-607-19993 9599-607-19996 9599-607-19997
			747 (all series)	9599-607-19993
			777 (all series)	9599-607-19992 9599-607-19993 9599-607-19996

Table 14 - Radio Altimeter Tolerant Aircraft (Boeing/ERT-550)

AIRCRAFT MANUFACTURER	RA MANUFACTURER	RA MODEL	AIRCRAFT MODEL	RA PART NUMBER
BOEING	THALES	ERT-550R	737 (all series) [1]	9599-607-40000
			747 (all series) [2]	
			757 (all series) [3]	
			767 (all series) [3]	
			777 (all series) [4]	

[1] Modified by Thales STC ST02829LA

[2] Modified by Thales STC ST02803LA

[3] Modified by APTOZ EHF STC 10082085

[4] Modified by Thales STC ST02798LA

Table 15 - Radio Altimeter Tolerant Aircraft (Boeing/ERT-550R)

AIRCRAFT MANUFACTURER	RA MANUFACTURER	RA MODEL	AIRCRAFT MODEL	RA PART NUMBER
BOEING	COLLINS	LRA-900*	MD-10	822-0334-222
			MD-11	
			737 (all series)	822-0334-004 822-0334-005
			747 (all series)	
			757 (all series)	
			767 (all series)	
			777 (all series)	
			737-800 Series	
			737-900 Series	
			737-900ER Series	
			737-8	
			737-9	
			737-8200	
			747-400 Series	
			747-400D Series	
			747-400F Series	
			747-8F Series	
			747-8 Series	
			757 (all series)	
			767-200 Series	
			767-300 Series	
			767-300F Series	
767-400ER Series				
777(all series)				

*Modified by Rockwell Collins STC ST02002WI

Table 16 - Radio Altimeter Tolerant Aircraft (Boeing/LRA-900+)

AIRCRAFT MANUFACTURER	RA MANUFACTURER	RA MODEL	AIRCRAFT MODEL	RA PART NUMBER
EMBRAER	HONEYWELL AEROSPACE	KRA-405B with RFF-100 filter installed*	ERJ 170-100 (all series)	066-01153-() (filter P/N 68013467-001)
			ERJ 170-200 (all series)	
			ERJ 190-100 (all series)	
			ERJ 190-200 (all series)	

*Incorporated by:

Embraer SB170-34-0057, Revision 1, 2 or further revisions approved by ANAC.

Embraer SB190-34-0055, Revision 1, 2, 3 or further revisions approved by ANAC.

*Installed as per type design with change DCA 0170-034-00002-2022.

*Installed as per type design with change DCA 0190-034-00001-2022.

Table 17 - Radio Altimeter Tolerant Aircraft (Embraer ERJ 170-100/-200 and ERJ 190-100/-200/ / KRA-405B with RFF-100 filter installed*

AIRCRAFT MANUFACTURER	RA MANUFACTURER	RA MODEL	AIRCRAFT MODEL	RA PART NUMBER
EMBRAER	HONEYWELL AEROSPACE	KRA-405B with RFF-100 filter installed*	ERJ 190-100 ECJ	066-01153-2001 066-01153-4001 (filter P/N 68013467-001)

*Incorporated by Embraer SB190LIN-34-0010, Revision original or further revisions approved by ANAC.

*Installed as per type design with change DCA 0190-034-00001-2022.

Table 18 - Radio Altimeter Tolerant Aircraft (Embraer ERJ190-100 ECJ/ KRA-405B with RFF-100 filter)

AIRCRAFT MANUFACTURER	RA MANUFACTURER	RA MODEL	AIRCRAFT MODEL	RA PART NUMBER
EMBRAER	HONEYWELL AEROSPACE	KRA-405B with RFF-100 filter installed*	ERJ 190-300	066-01153-4001 (filter P/N 68013467-001)
			ERJ 190-400	

*Incorporated by Embraer SB190E2-34-0013, Revision original or further revisions approved by ANAC.

*Installed as per type design with change DCA 0190-034-00012-2022

Table 19 - Radio Altimeter Tolerant Aircraft (Embraer ERJ190-300/-400 / KRA-405B with RFF-100 filter)

AIRCRAFT MANUFACTURER	RA MANUFACTURER	RA MODEL	AIRCRAFT MODEL	RA PART NUMBER
EMBRAER	HONEYWELL AEROSPACE	RT-300 with RFF-100 filter installed*	EMB-145	7001840-937 (filter P/N 68013467-101)
			EMB-145ER	
			EMB-145MR	
			EMB-145LR	
			EMB-145XR	
			EMB-145MP	
			EMB-145EP	
			EMB-135ER	
			EMB-135LR	
			EMB-135KE	
			EMB-135KL	

*Incorporated by Embraer SB145-34-0126, Revision original or further revisions approved by ANAC.

*Installed as per type design with change DCA 0145-034-00177-2022

Table 20 - Radio Altimeter Tolerant Aircraft (Embraer EMB-135/-145 / RT-300 with RFF-100 filter)

AIRCRAFT MANUFACTURER	RA MANUFACTURER	RA MODEL	AIRCRAFT MODEL	RA PART NUMBER
EMBRAER	COLLINS	ALT-4000	EMB-545	822-0615-206
			EMB-550	

Table 21 - Radio Altimeter Tolerant Aircraft (Embraer EMB-545/-550 / ALT-4000)

AIRCRAFT MANUFACTURER	RA MANUFACTURER	RA MODEL	AIRCRAFT MODEL	RA PART NUMBER
EMBRAER	HONEYWELL AEROSPACE	KRA-405B with RFF-100 filter installed*	EMB-500	066-01153-0101 (filter P/N 68013467-001)

*Incorporated by Embraer Service Bulletins:

- SB500-34-0020, revision original or further revisions approved by ANAC; or
- SB500-34-0021, revision original or further revisions approved by ANAC; or
- SB500-34-0023, revision original or further revisions approved by ANAC.

*Installed as per type design with change DCA 0500-034-00016-2022

Table 22 - Radio Altimeter Tolerant Aircraft (Embraer EMB-500/ KRA-405B with RFF-100 filter)

AIRCRAFT MANUFACTURER	RA MANUFACTURER	RA MODEL	AIRCRAFT MODEL	RA PART NUMBER
EMBRAER	HONEYWELL AEROSPACE	KRA-405B with RFF-100 filter installed*	EMB-505	066-01153-0101 (filter P/N 68013467-001)

*Incorporated by Embraer Service Bulletins:

- SB505-34-0024, revision original or further revisions approved by ANAC.
- SB505-34-0025, revision original or further revisions approved by ANAC.
- SB505-34-0027, revision original or further revisions approved by ANAC.

*Installed as per type design with change DCA 0505-034-00017-2022

Table 23 - Radio Altimeter Tolerant Aircraft (Embraer EMB-505/ KRA-405B with RFF-100 filter)

AIRCRAFT MANUFACTURER	RA MANUFACTURER	RA MODEL	AIRCRAFT MODEL	RA PART NUMBER
EMBRAER	HONEYWELL AEROSPACE	RT-300 with RFF-100 filter installed*	EMB-135BJ (Legacy 600 and Legacy 650)	7001840-937 (filter P/N 68013467-101)

*Incorporated by Embraer SB145LEG-34-0047, revision original or further revisions approved by ANAC.

*Installed as per type design with change DCA 0145-034-00177-2022

Table 24 - Radio Altimeter Tolerant Aircraft (Embraer EMB-135BJ/ RT-300 with RFF-100 filter)

AIRCRAFT MANUFACTURER	RA MANUFACTURER	RA MODEL	AIRCRAFT MODEL	RA PART NUMBER
ATR	THALES	ERT-550R	ATR 42 (all series)	9599-607-40000
			ATR 72 (all series)	

Table 25 - Radio Altimeter Tolerant Aircraft (ATR/ERT-550R)

AIRCRAFT MANUFACTURER	RA MANUFACTURER	RA MODEL	AIRCRAFT MODEL	RA PART NUMBER
ATR	THALES	ERT-011 AID 65 ft	ATR 42 (all series)	9599-607-24562
			ATR 72 (all series)	9599-607-24572

Table 26 - Radio Altimeter Tolerant Aircraft (ATR/ERT-011 AID 65ft)

AIRCRAFT MANUFACTURER	RA MANUFACTURER	RA MODEL	AIRCRAFT MODEL	RA PART NUMBER
DASSAULT	HONEYWELL AEROSPACE	KRA-405B with RFF-100 filter installed*	Falcon 6X	066-01153-4001 066-01153-5001
			Falcon 7X	
			Falcon 8X	

* Incorporated by *Dassault Aviation Design Change Reference*

- M0497 for Falcon 6X
- M2116 for Falcon 7X e 8X

NOTE: ANAC considers a radio altimeter tolerant aircraft when there is an ANAC-approved Supplemental Type Certificate (STC) that installs a tolerant radio altimeter on the aircraft models listed in the table.

Table 27 - Radio Altimeter Tolerant Aircraft (DASSAULT/KRA-405B with RFF-100 filter installed)

AIRCRAFT MANUFACTURER	RA MANUFACTURER	RA MODEL	AIRCRAFT MODEL	RA PART NUMBER
DASSAULT	HONEYWELL AEROSPACE	RT-300 with RFF-100 filter installed*	Falcon 900B	7001840-932
			Falcon 900C	
			Falcon 900EX	
			Falcon 900EX EASy	
			Falcon 2000 DX	
			Falcon 2000 EX EASy	

* Incorporated by *Dassault Aviation Design Change Reference*:

- M6186+M-OPT0483 (RA2 in option) for Falcon 900B/C and Falcon 900EX/EX EASy
- M5144+M-OPT0382 (RA2 in option) for Falcon 200DX/EX EASy

NOTE: ANAC considers a radio altimeter tolerant aircraft when there is an ANAC-approved Supplemental Type Certificate (STC) that installs a tolerant radio altimeter on the aircraft models listed in the table.

Table 28 - Radio Altimeter Tolerant Aircraft (DASSAULT/RT-300 with RFF-100 filter installed)

AIRCRAFT MANUFACTURER	RA MANUFACTURER	RA MODEL	AIRCRAFT MODEL	RA PART NUMBER	DESIGN CHANGE
BOMBARDIER	COLLINS	ALT-4000	BD-100-1A10 (Challenger 300)	822-0615-202 822-0615-206	DCCP-100T011140 MS BB100T011147
			BD-100-1A10 (Challenger 350)	822-0615-206	
			CL-600-2B16 (Challenger 605 e Challenger 650)	822-0615-202 822-0615-206	DCCP-600-6703 MS 600-6706
			BD-700-1A10 (Global Express, Express XRS, 6000 e 6500)	822-0615-003 822-0615-207	DCCP-GX-071 MS 700T901700 e MS700T901699 ou MS R700T400890
			BD-700-2A12 (Global 7500)	822-0615-257	DCCP-G7/8 -0075

Table 29 - Radio Altimeter Tolerant Aircraft (BOMBARDIER/ALT-4000)