

**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 2021-550-02

Date: 20 Oct. 2021

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 or fax-number:*

*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 04 Dec. 2021.

APPLICABILITY:

(a) This Airworthiness Directive (AD) applies to Embraer S.A. model EMB-545 and model EMB-550 airplanes as identified in Embraer Service Bulletin N. 550-52-0005, revision 01, dated May 22, 2018.

CANCELLATION / REVISION:

Not applicable.

REASON:

It has been found the possibility of Ram Air Turbine (RAT) compartment door seal peeling off and tangling up on the RAT rotor. This condition may cause the loss of RAT function, which, associated with an electrical emergency event, can result in loss of airplane controllability.

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

REQUIRED ACTION:

Replacement of the RAT compartment door seal.

COMPLIANCE:

Required as indicated below, unless already accomplished.

(b) Replacement of the RAT compartment door seal.

For airplanes identified in paragraphs (a) of this AD, before they log 600 Flight Hours (FH) or within the next 12 months after the effective date of this AD, whichever occurs first; replace the RAT compartment door seal by another one with the same Part Number (P/N) 550-04725-901, obeying the cure time of 24 hours before retracting the RAT, according to the detailed instructions and procedures contained in the Embraer Service Bulletin N. 550-52-0005, revision 01, dated May 22, 2018, or further revisions approved by the ANAC.

(c) Alternative methods of compliance (AMOCs).

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

(d) Material incorporated by reference.

You must use Embraer Service Bulletin N. 550-52-0005, revision 01, dated May 22, 2018, or further revisions approved by the ANAC to do the actions required by this AD.

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