



**AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL - BRAZIL**

## **BRAZILIAN AIRWORTHINESS DIRECTIVE**

**AD No.: 2023-05-03R02**

**Effective Date: 17 May 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. 2023-05-03R02 - (EMBRAER) / 39-1559.**

#### **APPLICABILITY:**

(a) This Airworthiness Directive (AD) applies to Embraer S.A. airplanes model EMB-505, as specified in EMBRAER Service Bulletin SB505-25-0046, revision 03, dated May 06<sup>th</sup>, 2024.

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

This AD cancels and supersedes the AD No. 2023-05-03R01 - EMBRAER/39-1544, effective on March 08<sup>th</sup>, 2024, and is being issued to include an additional action for airplanes within the Groups 1 and 2 of EMBRAER Service Bulletin SB505-25-0046, revision 03, dated May 06<sup>th</sup>, 2024, which already complied with the actions defined in this AD but have not installed the Part Number (P//N) 506-66837-001.

#### **REASON:**

Analyzes carried out identified that some of the monuments installed on Embraer model EMB-505 aircraft may not withstand the loads expected for specific emergency landing conditions, which may cause the detachment of mass items and cause injuries to the occupants of the plane.

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:**

Installation of structural reinforcement on monuments and replacement of fasteners on the floor support.

#### **COMPLIANCE:**

Required as indicated below, unless already accomplished.

**(b) Terminating action.**

For airplanes identified in paragraph **(a)** of this AD, within 36 months after June 02<sup>nd</sup>, 2023, the effective date of AD 2023-05-03, original revision, compliance shall be as follows:

**(1)** Install structural reinforcements and replace applicable floor fasteners as defined in the EMBRAER SB505-25-0046, revision 03, dated May 06<sup>th</sup>,2024, or later revisions approved by ANAC.

**(2)** In case of application of the EMBRAER SB505-25-0046 in its original revision, dated March 31<sup>st</sup>, 2021, before the effective date of this AD, inspect the installation of the fasteners on the floor support to check the Part Number (P/N).

**(i)** If the installed P/N is MS20470E5-7 or MS20470E5-8, as applicable, no further action is required.

**(ii)** If the installed P/N is different from MS20470E5-7 or MS20470E5-8, as applicable, replace it with a floor support fastener of P/N MS20470E5-7 or MS20470E5-8, as applicable, according to EMBRAER SB505-25-0046, revision 03, dated May 06<sup>th</sup>,2024 or later revisions approved by ANAC.

**(3)** For airplanes within Groups 1 and 2 of EMBRAER Service Bulletin SB505-25-0046, revision 03, dated May 06<sup>th</sup>,2024, if the EMBRAER SB505-25-0046, revision 02, dated February 19<sup>th</sup>, 2024, or previous revisions have been applied before the effective date of this AD, check if the P/N 506-66837-001 has been installed.

**(i)** If the P/N 506-66837-001 has been installed, no further action is required.

**(ii)** If the P/N 506-66837-001 has not been installed, install the P/N 506-66837-001, according to the instructions provided in the EMBRAER SB505-25-0046, revision 03, dated May 06<sup>th</sup>,2024, or later revisions approved by ANAC.

**(c) Credit for previous actions**

This paragraph provides credit for the actions specified in paragraph **(b)** of this AD. No further action is required per paragraph **(b)** of this AD if the actions specified in paragraph **(b)** of this AD were performed before the effective date of this AD, in accordance with:

**(1)** For airplanes within Groups 1 and 2 of EMBRAER Service Bulletin SB505-25-0046, revision 03, dated May 06<sup>th</sup>,2024

**(i)** EMBRAER SB505-25-0046, original revision, dated March 31<sup>st</sup>, 2021, provided the floor support fasteners installed are of P/N MS20470E5 -7 or MS20470E5-8, as applicable and the P/N 506-66837-001 has been installed; or

**(ii)** EMBRAER SB505-25-0046, revision 01, dated May 08<sup>th</sup>, 2023, or revision 02, dated February 19<sup>th</sup>, 2024, provided that the P/N 506-66837-001 has been installed.

**(2)** For airplanes within Groups 3, 4, 5, 6, 7, 8, and 9 of EMBRAER Service Bulletin SB505-25-0046, revision 03, dated May 06<sup>th</sup>,2024

**(i)** EMBRAER SB505-25-0046, original revision, dated March 31<sup>st</sup>, 2021,

provided the floor support fasteners installed are of P/N MS20470E5 -7 or MS20470E5-8; or

(ii) EMBRAER SB505-25-0046, revision 01, dated May 08th, 2023, or revision 02, dated February 19th, 2024.

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

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

(2) For service information that contains steps that are labeled as Required for Compliance (RC), the provisions of paragraphs (d)(2)(i) and (d)(2)(ii) of this AD apply.

(i) The steps labeled as RC, including substeps under a RC step and any figures identified in a RC step, must be done to comply with the AD. If a step or substep is labeled "RC Exempt," then the RC requirement is removed from that step or substep. An AMOC is required for any deviations to RC steps, including substeps and identified figures.

(ii) Steps not labeled as RC may deviate from using accepted methods in accordance with the operator's maintenance or inspection program without obtaining approval of an AMOC, provided the RC steps, including substeps and identified figures, can still be done as specified, and the airplane can be put back in an airworthy condition.

**(e) Material incorporated by reference.**

Embraer Service Bulletin EMBRAER No. 505-25-0046, revision 03, dated May 06<sup>th</sup>, 2024, or later revisions approved by ANAC.

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

**CONTACT:**

For additional technical information, contact:

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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).

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**Referência:** Processo nº 00066.017567/2020-11

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