



AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL - BRAZIL

BRAZILIAN AIRWORTHINESS DIRECTIVE

AD No.: 2022-04-01R1

Effective Date: 31 Oct. 2022

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. 2022-04-01R1 - EMBRAER / 39-1503.

APPLICABILITY:

This Airworthiness Directive (AD) applies to Embraer S.A. airplanes model ERJ 170-100 LR, ERJ 170-100 SE, ERJ 170-100 STD, ERJ 170-100 SU, ERJ 170-200 LR, ERJ 170-200 STD, ERJ 170-200 SU and ERJ 170-200 LL airplanes, serial numbers 17000002 through 17000914.

CANCELLATION / REVISION:

This AD cancels and supersedes the AD No. 2022-04-01 / 39-1491, dated 29 Apr. 2022, and is being issued to change its applicability.

REASON:

There were informed occurrences of incorrect routing of flight controls electrical harnesses affecting segregation of other electrical harnesses installations which are considered critical according to the Critical Design Configuration Control Limitations (CDCCL) of the aircraft model ERJ-170, described in Appendix A - Airworthiness Limitations of the Maintenance Review Board Report for these aircraft (MRB-1621).

Since this condition affects safety, it is necessary an inspection of the routing of electrical harnesses W126 and W127 that prevents the incorrect installation of these harnesses, and therefore, sufficient reason exists to request compliance with this AD within the indicated time limit.

REQUIRED ACTION:

This AD requires the inspection of electrical harnesses W126 and W127 regarding correct routing and corrections as necessary.

COMPLIANCE:

Required as indicated below, unless already accomplished.

Inspection and correction of harnesses routing

(a) Within 12 months after April 29th 2022, effective date of AD 2022-04-01, original revision:

(1) Inspect the installation of harnesses W126 and W127 regarding its routing according to the instructions of Service Bulletin Embraer 170-27-0062, revision 02, dated August 3rd, 2022, or further revisions approved by ANAC.

(2) In case of discrepancies found in the installation of harnesses W126 and W127, correct these discrepancies before next flight according to the instructions of Service Bulletin Embraer 170-27-0062, revision 02, dated August 3rd, 2022, or further revisions approved by ANAC.

Credit for previous actions

(b) This paragraph provides credit for the actions specified in paragraph (a) of this AD. No further action is required per paragraph (a) of this AD for aircraft on which those actions were performed before the effective date of this AD revision according to the original issue of the Embraer Service Bulletin 170-27-0062, dated December 7th, 2021, or revision 01, of the Embraer Service Bulletin 170-27-0062, dated June 2nd, 2022.

Alternative Methods of Compliance (AMOC)

(c) 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.

(d) For service information that contains steps that are labeled as Required for Compliance (RC), the provisions of paragraphs (d)(1) and (d)(2) of this AD apply.

(1) 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.

(2) Steps not labeled as RC may be deviated 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.

Material incorporated by reference

(e) To accomplish the actions required by this AD, use the Service Bulletin Embraer 170-27-0062, revision 02, dated August 3rd, 2022, or further revisions approved by 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
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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).

Referência: Processo nº 00066.001739/2022-98

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