



AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL – BRAZIL

BRAZILIAN AIRWORTHINESS DIRECTIVE

AD No.: 2015-06-01

Effective Date: 02 Jun. 2015

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. 2015-05-02 – EMBRAER S.A. / 39-1394.

APPLICABILITY:

This Airworthiness Directive (AD) applies to Embraer S.A. 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 and ERJ 170-200 SU airplanes with manufacturer serial number 17000002, 17000004 through 17000013, and 17000015 through 17000453, inclusive.

Note (1): Airplanes with an original airworthiness certificate or original export certificate of airworthiness issued on or after February 23, 2015 must comply with the airworthiness limitations specified as part of the airworthiness certification of those airplanes, or in accordance with operations specifications approved under “Regulamento Brasileiro da Aviação Civil” (RBAC) 121 or 135, or an inspection program approved under paragraph 91.409(e) of “Regulamento Brasileiro de Homologação Aeronáutica” (RBHA) 91.

Note (2): This AD requires revisions to certain operator maintenance documents to include new inspections or modification to the existing ones and its respective thresholds and intervals. Compliance with these inspections is required by RBHA 91.403(c). For airplanes that have been previously modified, altered, or repaired in the areas addressed by these inspections, the operator may not be able to accomplish the inspections described in the revisions. In this situation, to comply with RBHA 91.403(c), the operator must request approval for an alternative method of compliance according to paragraph (c) of this AD. The request should include a description of changes to the required inspections that will ensure the continued damage tolerance of the affected structure.

CANCELLATION / REVISION:

This AD supersedes AD 2012-10-01 / 39-1362.

REASON:

This AD was prompted by a new revision to the airworthiness limitations of the Maintenance Review Board Report. This AD is being issued to ensure that fatigue cracking of various principal structural elements is detected and corrected; such fatigue cracking could adversely affect the structural integrity of these airplanes.

REQUIRED ACTION:

This AD requires revisions to certain operator maintenance documents to include new inspections.

COMPLIANCE:

Required as indicated below, unless already accomplished.

- (a) **Revision of maintenance program**

(1) Within 12 months after the effective date of this AD, revise the maintenance program by incorporating the information in Part 1, Certification Maintenance Requirements, Part 2, Airworthiness Limitation Inspections - Structures, Part 3, Fuel System Limitation Items, and Part 4, Life Limited Items, of Appendix A, Airworthiness Limitation, of the Embraer 170 and 175 Maintenance Review Board Report, MRB 1621, Revision 10, dated February 23, 2015; excepted as provided in paragraph (c) of this AD.

(2) The compliance times depend on the airplane configuration, and the pre-modification and post-modification conditions specified in Part 1, Certification Maintenance Requirements, and in Part 2, Airworthiness Limitation Inspections – Structures, of Appendix A, Airworthiness Limitations, of the Embraer 170 and 175 Maintenance Review Board (MRB) Report, MRB 1621, Revision 10, dated February 23, 2015.

(3) The initial compliance time (threshold) for the inspections is within the applicable times specified in Part 1, Certification Maintenance Requirements, and in Part 2, Airworthiness Limitation Inspections - Structures of Appendix A, Airworthiness Limitation, of the Embraer 170 and 175 Maintenance Review Board (MRB) Report, MRB 1621, Revision 10, dated February 23, 2015, or within 600 flight cycles after the effective date of this AD, whichever occurs later. For the purposes of this AD, the initial compliance times (identified as "Threshold" or "T" in the service information) are expressed in "total flight cycles".

(b) Alternative actions and intervals

After accomplishing the actions required by paragraph (a) of this AD, no alternative inspections or inspection intervals may be used unless the alternative inspection or interval is approved as an alternative method of compliance (AMOC) in accordance with the procedures specified in paragraph (c) of this AD.

(c) Alternative Methods of Compliance (AMOC)

A different method or a different compliance time with the requirements of this AD may be used if approved by the General Manager of ANAC's Aeronautical Product Certification Branch (Gerência-Geral de Certificação de Produtos Aeronáuticos – GGCP). The AMOC approval letter must specifically reference this AD.

(d) Material incorporated by reference

You must use the Appendix A, Airworthiness Limitations, of the Embraer 170 and 175 Maintenance Review Board Report, MRB 1621, Revision 10, dated February 23, 2015 to do the actions required by this AD, unless the AD specify otherwise.

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

CONTACT:

For additional technical information, contact:

National Civil Aviation Agency (ANAC)
Aeronautical Products Certification Branch (GGCP)
Rua Laurent Martins, n° 209, Jardim Esplanada
Phone: 55 (12) 3203-6600
12242-431– São José dos Campos - SP, BRAZIL
E-mail: pac@anac.gov.br

APPROVAL:

MARIO IGAWA
General Manager
GGCP

DINO ISHIKURA
Airworthiness Superintendent
ANAC

NOTE: Original in Portuguese language signed and available in the files of the Aeronautical Products Certification Branch (GGCP) of the National Civil Aviation Agency (ANAC).