



AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL – BRAZIL

BRAZILIAN AIRWORTHINESS DIRECTIVE

AD No.: 2006-05-04R1

Effective Date: 09 June 2008

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 de Homologação Aeronáutica (RBHA) 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. 2006-05-04R1 - EMBRAER - Amendment 39-1233.

APPLICABILITY:

This Airworthiness Directive is applicable to Embraer ERJ 170-100 LR, ERJ 170-100 STD and ERJ 170-100 SU aircraft models, as identified in Embraer Service Bulletins (SB) Nos. 170-21-0017 Rev. 01, dated 15 Feb. 2006, and 170-21-0018 Rev. 03, dated 10 Mar. 2008.

CANCELLATION / REVISION:

This AD cancels and supersedes the AD No. 2006-05-04 original issue - Amdt 39-1133, dated 14 June 2006, and is being issued to modify its applicability.

REASON:

It has been found the occurrence of damage in the smoke seal installed in the aft avionics compartment. In case of smoke in the aft avionics compartment, smoke penetration into the passenger cabin may occur.

Since this condition may occur in other airplanes of the same type 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:

Inspection, repair and replacement, if necessary, of the smoke seal of the aft avionics compartment.

COMPLIANCE:

Required as indicated below, unless already accomplished.

PART I - Within the next 600 flight hours after 14 June 2006, the effective date of the original issue of this AD, and thereafter at intervals that do not exceeds 1200 flight hours, carry out a detailed inspection (DET) of the smoke seal sections of the aft avionics compartment for damage, until the PART II accomplishment, which is considered the terminal action for this AD.

- (a) If any tear is found, it must not to exceed 200 mm in length, regardless of its direction, and its edges must not be at less than 10 mm from the seal extremities. Case tears are found within the limits given above, repair them with silver tapes part number (PN) OT-6/50 or 50R10-820 along the torn section and beside the Velcro fasteners, according to the instructions and procedures described in the Embraer Service Bulletin No. 170-21-0017 Rev. 01, or further revisions approved by the ANAC; otherwise, replace all smoke seal sections with new ones bearing P/N 171-05037-501, 171-05037-503, 171-05037-505, 171-05037-507, 171-04768-509, 171-04768-511, 171-04768-513 and 171-04768-515, as applicable, according to the instructions and procedures described in the Embraer Service Bulletin No. 170-21-0018 original issue, or further revisions approved by the ANAC.

- (b) If any Velcro fastener is found unbounded from the seal edges, the unbounded section must not exceed 300 mm in length. Case Velcro fasteners are found unbounded from the seal edges within the limits given above, repair them with silver tapes P/N OT-6/50 or 50R10-820 along the unbounded section, according to the instructions and procedures described in the Embraer Service Bulletin No. 170-21-0017 Rev. 01, or further revisions approved by the ANAC; otherwise, replace all smoke seal sections with new ones bearing P/N 171-05037-501, 171-05037-503, 171-05037-505, 171-05037-507, 171-04768-509, 171-04768-511, 171-04768-513 and 171-04768-515, as applicable, according to the instructions and procedures described in the Embraer Service Bulletin No. 170-21-0018 original issue, or further revisions approved by the ANAC.
- (c) If no damage is found, install silver tapes P/N OT-6/50 or 50R10-820 around the Velcro fasteners to reinforce the area, according the instructions and procedures described in the Embraer Service Bulletin No. 170-21-0017 Rev. 01, or further revisions approved by the ANAC.

PART II - Within the next 6000 flight hours after 14 June 2006, the effective date of the original issue of this AD, replace all smoke seal sections of the aft avionics compartment with new ones bearing a P/N 171-05037-501, 171-05037-503, 171-05037-505, 171-05037-507, 171-04768-509, 171-04768-511, 171-04768-513 and 171-04768-515, as applicable, according the detailed instructions and procedures described in the Embraer Service Bulletin No. 170-21-0018 original issue, or further revisions approved by the ANAC.

NOTE: For the purpose of this AD, a detailed inspection (DET) is: “An intensive examination of a specific item, installation or assembly to detect damage, failure or irregularity. Available lighting is normally supplemented with a direct source of good lighting at an intensity deemed appropriate. Inspection aids such as mirrors, magnifying lenses, etc., may be necessary. Surface cleaning and elaborate access procedures may be necessary.”

The detailed instructions and procedures to accomplish this AD are described in the Embraer Service Bulletins Nos. 170-21-0017 Rev. 01, and 170-21-0018 original issue, or further revisions approved by the ANAC.

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

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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).