



## AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL – BRAZIL

### BRAZILIAN AIRWORTHINESS DIRECTIVE

**AD No.: 2010-06-03R1**

**Effective Date: 20 Sep. 2010**

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. 2010-06-03 – EMBRAER – Amendment 39-1314.**

#### **APPLICABILITY:**

This Airworthiness Directive (AD) is applicable to EMBRAER models EMB-145, EMB-145EP, EMB-145ER, EMB-145EU, EMB-145LR, EMB-145LU, EMB-145MK, EMB-145MP, EMB-145MR, EMB-135ER, EMB-135KE, EMB-135KL, and EMB-135LR airplanes; equipped with Titanium Auxiliary Power Unit (APU) firewall part number (PN) 145-47494-401 or 145-26850-401 or 145-26850-601 or 145-47494-403.

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

This AD cancels and supersedes AD No. 2010-06-03, amendment 39-1303 and is being issued to revise its applicability.

#### **REASON:**

This AD results from reports of cracking in the firewall of the auxiliary power unit (APU). This AD is being issued to detect and correct this cracking, which could result in reduced structural integrity of the fuselage and empennage in the event that a fire penetrates through the firewall of the APU.

Since this condition can affect 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, rework or replacement of APU firewall.

#### **COMPLIANCE:**

Required as indicated below unless already accomplished.

(a) Within 3300 flight hours (FH) after the effective date of this AD, perform a detailed inspection (DET) for cracking of the rearward and forward face of the APU firewall, including its attachment to the fuselage removing neither the structural reinforcements nor the dampers. If no cracking is found repeat the inspection thereafter at intervals not to exceed 6600 FH until paragraph (c) of this AD is accomplished;

(b) If any crack is found during any inspection required by paragraph (a) of this AD, before further flight, repair in accordance with the instructions presented in the EMB-145 Structural Repair Manual (SRM) 1142 - chapter 53-32-13, Rear Fuselage II - APU Firewall - Repairs. Additionally a repair approved by the ANAC may be performed. After performing the repair, repeat the inspection thereafter at intervals not to exceed 6600 FH until paragraph (c) of this AD is accomplished;

(c) Replacing the APU firewall PN 145-47494-401 or 145-26850-401 or 145-26850-601 or 145-47494-403, for a new one of PN 145-47494-607, in accordance with the instruction of EMBRAER service bulletin No. 145-53-0062 original issuance or further revisions approved by the ANAC, constitute the final action for the repetitive inspection required on paragraphs (a) and (b).

**NOTE:** For the purpose of this AD, a detailed inspection 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 required."

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

**CONTACT:**

For additional technical information, contact:

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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).