



## AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL – BRAZIL

### BRAZILIAN AIRWORTHINESS DIRECTIVE

**AD No.: 2011-11-01**

**Effective Date: 30 Nov. 2011**

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. 2011-11-01 - EMBRAER / 39-1346.**

#### **APPLICABILITY:**

This Airworthiness Directive (AD) is applicable to Embraer S.A. model EMB-145, EMB-145EP, EMB-145ER, EMB-145EU, EMB-145LR, EMB-145LU, EMB-145MK, EMB-145MP, EMB-145MR, EMB-135BJ, EMB-135ER, EMB-135KE, EMB-135KL, and EMB-135LR airplanes, all serial numbers.

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

Not applicable.

#### **REASON:**

It has been found the occurrence of a lightning strike event hitting the airplane tail boom turning loosed its rear bulkhead parts against its elevator control rods. The lack of the appropriated protection against lightning strike effects may release some parts which in contact with the airplane pitch control system may reduce its controllability.

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:**

Installation or rework, as applicable, of metallic diverters, replacement of the hood assembly with a new improved one bearing a new Part Number (P/N) and reroute the electrical harness of the airplane tail boom.

#### **COMPLIANCE:**

Required as indicated below, unless already accomplished.

Within 5000 Flight Hours (FH) or 48 months after the effective date of this AD, whichever occurs first, install or rework, as applicable, metallic diverters, aluminum sheets and carry out modifications on lights assembly on the airplane tail boom rear movable fairing. Replace the hood assembly with a new improved one bearing a new P/N 145-23046-403 and reroute its electrical harness according the detailed instructions and procedures described in the Embraer Service Bulletin No. 145-55-0030, Rev. 05, or further revisions, or Embraer Service Bulletin No. 145LEG-55-0013, original issue, or further revisions approved by the ANAC.

The detailed instructions and procedures to accomplish this AD are described in the Embraer Service Bulletin No. 145-55-0030, Rev. 05, or further revisions, or Embraer Service Bulletin No. 145LEG-55-0013, original issue, or further 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:**

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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).