



## AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL – BRAZIL

### BRAZILIAN AIRWORTHINESS DIRECTIVE

**AD No.: 2014-09-01**

**Effective Date: 04 Sep. 2014**

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. 2014-09-01 – EMBRAER S.A. / 39-1387.**

**APPLICABILITY:**

This Airworthiness Directive is applicable to Embraer S.A. EMB-110, EMB-110C, EMB-110E, EMB-110F, EMB-110P, EMB-110B1, EMB-110S1, EMB-110P2, EMB-110K1 e EMB-110P1 airplanes; all serial numbers.

**CANCELLATION / REVISION:**

Not applicable.

**REASON:**

This AD was prompted by a report of an in-service occurrence where an EMB-110 airplane performed a forced landing, due to a strong vibration felt by the pilots after the takeoff. The investigation determined that the cause of the vibration most likely resulted from a broken fork end on the rudder trim tab actuator that connects the trim tab to the trim tab actuator due to severe corrosion. We are issuing this AD to detect and correct corrosion and cracking on the rudder trim tab actuator terminal, which could cause the terminal to fail and result in loss of control of the airplane.

Since this condition may exist in other airplanes of the same type and affects flight safety, an immediate corrective action is required. Thus, sufficient reason exists to request compliance with this AD in the indicated time limit without prior notice.

**REQUIRED ACTION:**

Inspection of the rudder trim tab actuator components.

**COMPLIANCE:**

Do the actions required by this AD within the compliance times specified, unless the actions have already been done.

**Repetitive Inspections and Corrective Actions**

(a) Within 10 flight hours or 15 days after the effective date of this AD, whichever occurs first, do a detailed inspection (DI) to detect discrepancies and corrosion on the Rudder Trim Tab Actuator components, and if any discrepancy exists, repair before further flight; in accordance with the Accomplishment Instructions of Embraer Alert Service Bulletin (ASB) 110-27-A095, original issue, dated August 21, 2014. Repeat the detailed inspection required by this paragraph thereafter at intervals not to exceed 60 months.

**Material Incorporated by Reference**

(b) You must use Embraer ASB 110-27-A095, original issue, dated August 21, 2014, or further revisions approved by the ANAC, to do the actions required by this AD, unless this AD specifies otherwise.

**Alternative methods of compliance (AMOCs)**

(c) A different method or a different compliance time, with the requirements of this AD, may be used if approved by the General Manager of the Aeronautical Product Certification Branch (Gerência-Geral de Certificação de Produtos Aeronáuticos – GGCP).

**CONTACT:**

For additional technical information, contact:

National Civil Aviation Agency (ANAC)

Aeronautical Products Certification Branch (GGCP)

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**APPROVAL:**

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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).

**Referenced Publications:**

[Embraer Alert Service Bulletin \(ASB\) 110-27-A095](#)