



## AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL – BRAZIL

### BRAZILIAN EMERGENCY AIRWORTHINESS DIRECTIVE

**EAD No.: 2014-07-03**

**Effective Date: 25 July 2014**

The following Brazilian Emergency Airworthiness Directive (EAD), 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.

#### **EAD No. 2014-07-03 -EMBRAER / 39-1386.**

**APPLICABILITY:** This Emergency Airworthiness Directive (EAD) applies to Embraer S.A. model EMB-500 airplanes, as identified in Embraer Alert Service Bulletin (ASB) 500-55-A004, revision 2, dated July 25, 2014.

**CANCELLATION / REVISION:** This EAD cancels and supersedes the AD No. 2014-07-02 – Amdt 39-1385, dated 25 Jul. 2014, and is being issued to change the compliance time and to expand its applicability to new airplanes.

**REASON:** This EAD results from a report of cracking in the barrel nuts at the horizontal stabilizer-to-vertical stabilizer attachment joint found during an inspection at the assembly line. This EAD is being issued to detect and correct cracking of the barrel nuts at the horizontal stabilizer-to-vertical stabilizer attachment joint, which could result in reduced structural integrity of the affected part and consequent detachment of the horizontal stabilizer from 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 EAD in the indicated time limit without prior notice.

**REQUIRED ACTION:** Inspection and replacement of the discrepant barrel nuts in the horizontal stabilizer-to-vertical stabilizer attachment joint.

**COMPLIANCE:** Do the actions required by this EAD within the compliance times specified, unless the actions have already been done.

#### **Inspection and corrective action**

(a) Before further flight after 25 Jul. 2014, the effective date of this EAD, inspect all barrel nuts, and do all applicable corrective actions, in accordance with the Accomplishment Instructions of Embraer Alert Service Bulletin 500-55-A004, revision 2, dated July 25, 2014.

#### **Credit for previous actions**

(b) This paragraph provides credit for the actions specified in paragraph (a) of this EAD, if those actions were performed before the effective date of this EAD using Embraer ASB 500-55-A004, original issue, dated July 21, 2014 or Embraer ASB 500-55-A004, revision 1, dated July 24, 2014.

#### **Material incorporated by reference**

(c) You must use Embraer ASB 500-55-A004, revision 2, dated July 25, 2014; or further revisions approved by the ANAC; to do the actions required by this EAD, unless the EAD specifies otherwise.

#### **Alternative methods of compliance (AMOCs)**

(d) A different method or a different compliance time, with the requirements of this EAD, may be used

if approved by the General Manager of the Aeronautical Product Certification Branch (Gerência-Geral de Certificação de Produto Aeronáutico – GGCP). Required as indicated below, unless already accomplished.

**CONTACT:** For additional information, please contact the ANAC-GGCP, 12246-870 - São José dos Campos - SP, Brazil, telephone: 55 (12) 3797-2521, Fax: 55 (12) 3797-2330, E-mail: [pac@anac.gov.br](mailto:pac@anac.gov.br).

**APPROVAL:** Original in Portuguese language available in the files of the Aeronautical Products Certification Branch (GGCP) of the National Civil Aviation Agency (ANAC). Signed by:

HÉLIO TARQUINIO JÚNIOR  
General Manager  
GGCP

DINO ISHIKURA  
Airworthiness Superintendent  
ANAC