



REPÚBLICA FEDERATIVA DO BRASIL  
AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL – ANAC

## BRAZILIAN AIRWORTHINESS DIRECTIVE

**AD No.: 2006-06-01**

**Effective Date: 28 Jun. 2006**

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. 2006-06-01 - EMBRAER - Amendment 39-1141.**

**APPLICABILITY:**

This Airworthiness Directive is applicable to all Embraer ERJ-170() aircraft models in operation.

**CANCELLATION / REVISION:**

Not applicable.

**REASON:**

It has been found an error in the implementation process of the Primus EPIC digital platform, which may lead to an ineffective power up built-in-test (PBIT) of certain fly-by-wire (FBW), autoflight and avionics system functions; therefore, compliance with the safety objectives of the RBHA/FAR 25.1309 requirement is not fully warranted. In addition, the current EPIC software versions may be susceptible to a blinking (self recoverable) of all cockpit flight displays (PFD/MFD/EICAS). At last, the current EPIC software versions do not fully comply with the applicable flight data recording requirements.

Since this condition exists and affects flight safety, a corrective action is required. Thus, sufficient reason exists to request compliance with this AD in the indicated time limit without prior notice.

**REQUIRED ACTION:**

Replacement of the current EPIC Software versions with PRIMUS EPIC software P/N PS7027709-00113 (load 17.3 version), or later approved versions.

**COMPLIANCE:**

Required as indicated below, unless already accomplished.

- (a) Within the next 30 calendar days after the effective date of this AD, for airplanes equipped with software P/N PS7027709-00108 (load version 15.3), PS7027709-00109 (load version 15.4) or PS7027709-00110 (load version 15.5), install software P/N PS7027709-00113 (load 17.3 version).
- (b) Within the next 120 calendar days after the effective date of this AD, for airplanes equipped with software P/N PS7027709-00106 (load version 17.1) or PS7027709-00112 (load version 17.2.0.2), install software P/N PS7027709-00113 (load 17.3 version).

**NOTE 1:** Primus EPIC software load version 17.1 has not been approved by FAA and EASA.

**NOTE 2:** Primus EPIC software load version 17.3 is a significant improvement over current versions, but does not fully solve the deficient PBIT's. A final solution is expected for the next major EPIC software revision (load 19 version).

The detailed instructions and procedures to accomplish this AD are described in the Embraer Service Bulletin No. 170-31-0013, original issue, or further revisions approved by the ANAC.

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

**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 Agency of Civil Aviation (ANAC).