



## AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL – BRAZIL

### BRAZILIAN AIRWORTHINESS DIRECTIVE

**AD No.: 2002-12-03R1**

**Effective Date: 29 Apr. 2009**

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. 2002-12-03R1 - EMBRAER - Amendment 39-1268**

##### **APPLICABILITY:**

This Airworthiness Directive is applicable to Embraer model EMB-135BJ, EMB-135ER, EMB-135KE, EMB-135KL, EMB-135LR, EMB-145, EMB-145EP, EMB-145ER, EMB-145EU, EMB-145LR, EMB-145LU, EMB-145MK, EMB-145MP, EMB-145MR and EMB-145XR airplanes.

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

This AD cancels and supersedes the AD No. 2002-12-03 – Amdt 39-975, dated 20 Dec. 2002, and is being issued to include an alternative method of compliance with its initial requirements.

##### **REASON:**

It has been found the occurrence of an elevator locking during the takeoff run, caused by a restart of the locking sequence, which was initiated by a rearward movement of the gust lock lever and aggravated by a possible ineffective plunger spring, after the elevator had been unlocked.

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:**

Check if the control column is unlocked every time the gust lock lever is set to the unlocked position.

##### **COMPLIANCE:**

Required as indicated below, unless already accomplished.

Within the next 24 hours after 20 Dec. 2002, the effective date of the original issued of this AD, introduce the following warning in the Limitations Section of the Airplane Flight Manual (AFM):

"Every single time the gust lock lever is set to the unlocked position, the elevator movement must be checked. This check must be performed no sooner than 10 seconds after positioning the gust lock lever to the unlocked position by moving the control column from the full up stop to the full down stop and back to the full up stop."

**NOTE:** This may be accomplished by inserting a copy of this AD into the AFM. Therefore, an operation with an AFM approved version containing the procedure required by this AD constitutes an alternative method of compliance with the AD initial requirements, allowing the operator to remove this AD copy from the AFM.

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

**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).