



## AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL – BRAZIL

### BRAZILIAN AIRWORTHINESS DIRECTIVE

**AD No.: 2004-03-01R1**

**Effective Date: 09 July 2007**

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. 2004-03-01R1 - EMBRAER - Amendment 39-1185.**

#### **APPLICABILITY:**

This Airworthiness Directive is applicable to all Embraer EMB-121( ) aircraft models in operation.

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

This AD cancels and supersedes the AD No. 2004-03-01 original issue – Amdt. 39-1015, dated 30 Mar. 2004, and is being issued to modify the time of accomplishment.

#### **REASON:**

It has been found the occurrence of cases of cracks at the “I” section of the flange at the arm of the nose landing gear rotating cylinder. That crack can result on the failure of the rotating cylinder arm, causing the loss of control of the aircraft on the ground.

Since this condition may occur in other aircraft 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 without prior notice.

#### **REQUIRED ACTION:**

Inspection of the nose landing gear rotating cylinder.

#### **COMPLIANCE:**

Required as indicated below, unless already accomplished.

- (a) Within the next 150 landings or 60 calendar days after 30 Mar. 2004, the effective date of the original issue of this AD, whichever occurs first, inspect the rotating cylinder for cracks, using either the dye penetrant or eddy current methods. If any crack is found, the rotating cylinder must be replaced by another with the same P/N before next flight.
- (b) Repeat the rotating cylinder inspection for cracks using dye penetrant method every 600 flight hours or 18 calendar months, whichever occurs first.

The detailed instructions and procedures to accomplish this AD are described in the Embraer Service Bulletin No. 121-32-0061 original issue, or further revisions approved by the ANAC.

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

**CONTACT:**

For additional technical information, contact:

National Civil Aviation Agency (ANAC)  
Aeronautical Products Certification Branch (GGCP)  
Av. Cassiano Ricardo, 521, Bloco B, 2º andar, Parque Residencial Aquarius  
Fax: 55 (12) 3797-2330  
12246-870 – São José dos Campos - SP, BRAZIL.  
E-mail: pds@anac.gov.br

For acquisition, contact:

National Civil Aviation Agency (ANAC)  
Publications Branch  
R. Santa Luzia, 651, 2º Mezanino, Centro  
Fax: 55 (21) 3814-6929  
20030-040 – Rio de Janeiro - RJ, BRAZIL.  
E-mail: publicacoes@anac.gov.br

**APPROVAL:**

CLÁUDIO PASSOS SIMÃO  
General Manager  
GGCP

MILTON ZUANAZZI  
Director-President  
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).