



## AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL – BRAZIL

### BRAZILIAN AIRWORTHINESS DIRECTIVE

**AD No.: 2007-12-02**

**Effective Date: 24 Jan. 2008**

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. 2007-12-02 - EMBRAER - Amendment 39-1203.**

#### **APPLICABILITY:**

This Airworthiness Directive is applicable to Embraer ERJ-190 aircraft models in operation equipped with Ram Air Turbine (RAT) part number (P/N) 1703781 and serial numbers (S/N) 0005 and 0101 thru 0419.

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

Not applicable

#### **REASON:**

It has been found the occurrence of failed bearings of the RAT generator, which may lead to a RAT generator failure. The RAT generator was designed to provide emergency electrical power to essential systems in case of loss of all other sources of aircraft AC electrical power.

Since this condition may occur in other appliances 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:**

Inspection, reidentification and replacement of the RAT.

#### **COMPLIANCE:**

Required as indicated below, unless already accomplished.

Within the next 1300 flight hours or 6 months after the effective date of this AD, whichever occurs first, for RAT with P/N 1703781, verify the installed S/N.

- (a) If RAT has S/N 0110, 0150, 0255 or 0354 thru 0419, reidentify the RAT P/N from 1703781 to 1703781A at moment of the above verification.
- (b) If RAT has S/N 0005, 0101 thru 0109, 0111 thru 0149, 0151 thru 0254 or 0256 thru 0353, replace the RAT with another one bearing P/N 1703781A within the next 6000 flight hours or 26 months after the effective date of this AD, whichever occurs first.

The detailed instructions and procedures to accomplish this AD are described in the Embraer Service Bulletin No. 190-24-0012 original issue, or its 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 Civil Aviation Agency (ANAC).