



SERVIÇO PÚBLICO FEDERAL

DEPARTAMENTO DE AVIAÇÃO CIVIL

BRAZILIAN AIRWORTHINESS DIRECTIVE

EFFECTIVE DATE:

16 Feb. 2006

AD No.:

2004-05-01R1

The following Airworthiness Directive (AD), issued by the Departamento de Aviação Civil (DAC) 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. 2004-05-01R1 - EMBRAER - Amendment 39-1115.

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. 2004-05-01, original issue – Amendment 39-1023, dated 01 jun. 2004, and is being revised to exempt of the fulfilment of the item (a) of this AD the aircraft that had had its circuit breakers of 80A and 100A substituted by new one with the same P/N.

REASON:

It has been found the occurrence of loss of an essential electrical bus bar due to high impedance at the 80A circuit breakers in the lines that feed that bus bar.

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:

Measuring of the impedance and cycling the circuit breakers of the 80A and 100A circuit breakers; and their replacement, if necessary.

COMPLIANCE:

Required as indicated below, unless already previously accomplished or the circuit breaker had been replaced by new one with the same P/N in the last 24 calendar months.

(a) Within the next 300 flight hours or 12 calendar months after the effective date of this AD, whichever occurs first, perform a measuring for impedance of both the 80A and 100A circuit breakers. Replace the circuit breakers found out of tolerance before returning the aircraft to flight after the inspection.

(b) For the circuit breaker that has been replaced by new one or accomplished with item (a) above, switching them on and off at least 2 times with no power applied with an interval of 24 calendar months.

The detailed instructions and procedures to accomplish this AD are described in the Embraer Service Bulletin No. 121-24-0029, original issue, or further revisions approved by the CTA.

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

CONTACT:

For additional technical information, contact:

Centro Técnico Aeroespacial - CTA
Instituto de Fomento e Coordenação Industrial - IFI
Divisão de Certificação de Aviação Civil - CAVC
Praça Mal. Eduardo Gomes, 50 - Vila das Acácias
Caixa Postal 6001
Fax: 55 (12) 3941-4766
12231-970 - São José dos Campos - SP, BRAZIL.
e-mail: pds@ifi.cta.br

For acquisition, contact:

Departamento de Aviação Civil - DAC
Seção de Publicações do DAC (4GAB-4)
R. Santa Luzia, 651, 2º Mezanino, Centro
Fax: 55 (21) 3814-6929
20030-040 - Rio de Janeiro - RJ, BRAZIL.
e-mail: publicacoes@dac.gov.br

APPROVAL:

GERALDO CURCIO NETO Ten Cel Av
Chief of the Civil Aviation Certification Division
IFI/CTA

LUIZ ALBERTO C. MUNARETTO Cel Av
Director of the Industrial Coordination and Fostering Institute
CTA

NOTE: Original in Portuguese language signed and available in the files of the Registro Geral de Aeronavegabilidade (RGA/TE-1/STE) of the Departamento de Aviação Civil.