



AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL – BRAZIL

BRAZILIAN AIRWORTHINESS DIRECTIVE

AD No.: 2007-05-01R1

Effective Date: 04 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. 2007-05-01R1 - EMBRAER - Amendment 39-1184.

APPLICABILITY:

This Airworthiness Directive is applicable to Embraer 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 aircraft models in operation.

CANCELLATION / REVISION:

This AD cancels and supersedes the AD No. 2007-05-01 original issue – Amdt 39-1182, dated 06 June 2007, and is being issued to exclude the EMB-135BJ aircraft model from the Applicability section.

REASON:

It has been found the development of cracks in the forward fuselage right hand (RH) side skin during full-scale fatigue tests. Those cracks may quickly reach their critical length, reducing the aircraft structural integrity, with possible rapid decompression of the aircraft.

Since this condition 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:

Rework of the aircraft structure on the forward fuselage LH and RH sides.

COMPLIANCE:

Required as indicated below, unless already accomplished.

Before aircraft logging 22000 flight cycles, add two reinforcements to the forward fuselage skin on the LH and RH sides between frames 9 to 10 and 10 to 11, and stringers 12 to 15. Install supports to the reinforcements and stringers as well as new fasteners to the reinforcements and supports, and reroute the electrical wiring on the affected area.

NOTE: The accomplishment of the detailed instructions and procedures described in the Embraer Service Bulletin No. 145-53-0051 original issue, or further revisions approved by ANAC, constitutes an alternative method of compliance with these AD requirements.

The detailed instructions and procedures to accomplish this AD are described in the Embraer Service Bulletin No. 145-53-0067 Rev. 01, or further revisions approved by ANAC.

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

CONTACT:

For additional technical information, contact:

National Agency of Civil Aviation (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 Agency of Civil Aviation (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 Agency of Civil Aviation (ANAC).