



AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL – BRAZIL

BRAZILIAN AIRWORTHINESS DIRECTIVE

AD No.: 2008-10-03

Effective Date: 21 Oct. 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. 2008-10-03 - EMBRAER - Amendment 39-1246.

APPLICABILITY:

This Airworthiness Directive is applicable to Embraer ERJ 190 aircraft models of serial numbers (S/N) 19000002, 19000004 and 19000006 thru 19000062.

CANCELLATION / REVISION:

Not applicable.

REASON:

During routine inspection procedures on the wing assembly line it was identified the possibility of cracks and deformation developing during assembly on the internal wings spars and rib flanges, causing a safe margin reduction.

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:

Inspection and rework, if necessary, of the flanges on left (LH) and right (RH) wings ribs and spars I, II and III.

COMPLIANCE:

Required as indicated below, unless already accomplished.

Before the aircraft logs 5 000 Flight Cycles (FC), or within the next 1000 FC, after the effective date of this AD, whichever occurs later, perform a detailed inspection (DET) of the left (LH) and right (RH) wing rib and spars I, II and III flanges, according to the detailed instructions and procedures described on Embraer Service Bulletin (SB) No. 190-57-0023, original issue, or further revisions approved by ANAC. If any damage is detected during the inspections required, the results must be sent to ANAC and to Embraer Technical Support within 96 hours in order to provide an approved repair for each case.

NOTE: For the purpose of this AD, a Detailed Inspection (DET) is: “An intensive examination of a specific item, installation or assembly to detect damage, failure or irregularity. Available lighting is normally supplemented with a direct source of good lighting at an intensity deemed appropriate. Inspection aids such as mirrors, magnifying lenses, etc., may be necessary. Surface cleaning and elaborate access procedures may be required.”

The detailed instructions and procedures to accomplish this AD are described in the Embraer Service Bulletin No. 190-57-0023 original issue, or 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).