



AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL – BRAZIL

BRAZILIAN AIRWORTHINESS DIRECTIVE

AD No.: 2008-01-02

Effective Date: 25 Feb. 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. 2008-01-02 - EMBRAER - Amendment 39-1228.

APPLICABILITY:

This Airworthiness Directive is applicable to Embraer ERJ-190 aircraft models of serial numbers 19000004, 19000006 thru 19000028 and 19000030 thru 19000039.

CANCELLATION / REVISION:

Not applicable.

REASON:

During aircraft structure fatigue tests, cracks were found in the wing lower skin stringers between ribs 7 and 10 on both wings. In order to prevent fatigue cracks in the wing lower skin stringers, which could result in fuel leakage and reduced structural integrity of the wing, the referred stringers must be reworked.

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 and inspection of wings lower skin stringers.

COMPLIANCE:

Required as indicated below, unless already accomplished.

Before the affected aircraft reach 5000 flight cycles, perform the following:

- (a) Spot face the lower wing stringers between ribs 7 and 10 on both wings by changing their run out, as applicable, in accordance with instructions of Embraer Service Bulletin No. 190-57-0005 Rev. 01, or further revisions approved by ANAC;
- (b) Perform a dye-penetrant method inspection on the reworked stringers for cracks;
 - (1) If no crack is detected, proceed with the item (c) below;
 - (2) If any crack is detected, perform the repair before first flight in accordance with a method approved by ANAC;
- (c) Shot-peen the stringer reworked area following the parameters indicated in the Embraer Service Bulletin No. 190-57-0005 Rev. 01, or further revisions approved by ANAC.

The detailed instructions and procedures to accomplish this AD are described in the Embraer Service Bulletin No. 190-57-0005 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 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: pac@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

SOLANGE PAIVA VIEIRA
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).