



SERVIÇO PÚBLICO FEDERAL
DEPARTAMENTO DE AVIAÇÃO CIVIL

BRAZILIAN AIRWORTHINESS DIRECTIVE

EFFECTIVE DATE:

08 November 2002

AD No.:

2002-01-01R3

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. 2002-01-01R3 - EMBRAER - Amendment 39-964.

APPLICABILITY:

This Airworthiness Directive is applicable to Embraer EMB-145() and EMB-135() aircraft models of serial numbers 145001 thru 145189, 145191 thru 145362, 145364 thru 145373, 145375, 145377 thru 145411, 145413 thru 145424, 145426 thru 145430, 145434 thru 145436, 145440 thru 145445, 145448, 145450 and 145801 equipped with the mechanical gust lock system.

CANCELLATION / REVISION:

This AD cancels and supersedes the AD No. 2002-01-01R2 – Amdt 39-951, dated 07 Jun. 2002, and is being revised to include requirements for repetitive inspections and modification of the elevator gust lock system.

REASON:

It has been found occurrences of cracks in some parts of the elevator control system in the horizontal stabilizer area, caused by strong gusts on the ground.

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:

Inspection for cracks, rupture, or bends in several parts of the elevator control system, located in the horizontal stabilizer area; and replacement of the elevator mechanical gust lock system with an electro-mechanical system.

COMPLIANCE:

Required as indicated below, unless already accomplished.

- (a) Within the next 800 flight operating hours after 07 Jun. 2002, the effective date of the Revision 2 of this AD, inspect for cracks, ruptures, or bends, with aid of a mirror, flashlight and magnifying glass, the elevator system components according to the Aircraft Maintenance Manual – Chapter 5-50-04 (Task 5-50-04-200-802-A, Subtask 5-50-04-212-002-A00). If cracked, ruptured or bent parts are noticed, inform the CTA and replace the affected parts with new ones bearing the same P/N.
- (b) Repeat the inspection of the item (a) above at intervals not exceeding 2500 flight operation hours or 15 calendar months, whichever comes first, until the system is modified according to item (c) below.

- (c) Within the next 10000 flight operating hours or 60 calendar months after the effective date of this Revision 3, whichever comes first, modify the elevator gust lock system, replacing the mechanical system with an electro-mechanical system.

The detailed instructions and procedures to accomplish this AD are described in the Embraer Service Bulletins Nos. 145-27-0087 Rev. 3, 145-27-0075 Rev. 6 and 145-27-0086 Rev. 1, or further revisions approved by the CTA.

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

CONTACT:

For additional technical information, contact:

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APPROVAL:

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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.