



AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL – BRAZIL

BRAZILIAN AIRWORTHINESS DIRECTIVE

AD No.: 2007-03-03

Effective Date: 10 Apr. 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. 2007-03-03 - EMBRAER - Amendment 39-1178.

APPLICABILITY:

This Airworthiness Directive is applicable to all Embraer EMB-120() aircraft models in operation.

CANCELLATION / REVISION:

Not applicable.

REASON:

Icing tunnel tests on an EMB-120 wing section, conducted under a joint Embraer-NASA-FAA-CTA research program well after the EMB-120() was type-certificated, have shown that stick shaker to stick pusher speed margins may drop below the minimum required by the applicable regulations in certain icing conditions. Although flight tests have shown that the aircraft handling qualities are not adversely affected, these reduced speed margins may significantly increase crew workload in certain flight phases.

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:

Replacement of the Stall Warning Computers (SWC).

COMPLIANCE:

Required as indicated below, unless already accomplished.

Within the next 36 calendar months after the effective date of this AD, replace the current Stall Warning Computers with new improved ones in accordance with detailed instructions and procedures described in the Embraer Service Bulletin No. 120-27-0092 Rev. 01, or further revisions approved by ANAC.

NOTE 1: After 10 Apr. 2010 no person may operate an EMB-120() aircraft with Stall Warning Computers bearing part number (P/N) C-81806-1 Mod. A, C-81806-2 Mod. A or C-81806-3.

NOTE 2: Before installing the improved Stall Warning Computers, it must be accomplished the detailed instructions and procedures described in the Embraer Service Bulletin No. 120-27-0091 Rev. 02, or further revisions approved by ANAC.

The detailed instructions and procedures to accomplish this AD are described in the Embraer Service Bulletins Nos. 120-27-0092 Rev. 01 and 120-27-0091 Rev. 02, or further revisions approved by 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).