



SERVIÇO PÚBLICO FEDERAL

DEPARTAMENTO DE AVIAÇÃO CIVIL

BRAZILIAN AIRWORTHINESS DIRECTIVE

EFFECTIVE DATE:

24 Feb. 2006

AD No.:

2006-02-01

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. 2006-02-01 - EMBRAER - Amendment 39-1117.

APPLICABILITY:

This Airworthiness Directive is applicable to Embraer EMB-145XR aircraft model of serial numbers 145590, 145643, 145645, 145646, 145649, 145650, 145654, 145655, 145657 thru 145660, 145662, 145664, 145666, 145672, 145674, 145675, 145677, 145681, 145683, 145684, 145688 thru 145690, 145693, 145697, 145700, 145703 thru 145705, 145708, 145712, 145714, 145718, 145719, 145721, 145727, 145731 thru 145733, 145735, 145739, 145741, 145745, 145746, 145749, 145751, 145753, 145756, 145758, 145759, 145761, 145772, 145782, 145786, 145787, 145791, 145792, 145799, 14500805, 14500808, 14500811, 14500817, 14500819, 14500831, 14500834, 14500840, 14500844, 14500850, 14500859, 14500864, 14500872, 14500876, 14500878, 14500881, 14500888, 14500889, 14500896, 14500900, 14500904, 14500909, 14500914, 14500917, 14500922, 14500924, 14500927, 14500929, 14500931, 14500934 thru 14500936, 14500938, 14500940 and 14500943.

CANCELLATION / REVISION:

Not applicable.

REASON:

It has been found the occurrence where some aircraft of EMB-145XR model were manufactured without the takeoff aural and visual warning enabled when the flaps are set to 22 degrees. This takeoff configuration with flaps set at 22 degrees is not approved and there is no corresponding performance data in the AFM.

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:

Modification of the flap system interface wiring.

COMPLIANCE:

Required as indicated below, unless already accomplished.

Within the next 2500 flight hours after the effective date of this AD:

- (a) Install and connect diodes CR0231 and CR0232 to splices SP4159, SP4160, and SP4161;
- (b) Disconnect electrical wires W101-4176-24, W101-4178-24, and W101-4786-24 from electrical connectors J0739 and J0741 and reroute them, connecting them to splices SP4160, SP4159 and SP4161 respectively; and

- (c) Route electrical wires W101-5783-24, W101-5787-24 and W101-5789-24 connecting them to electrical connectors J0739 and J0741.

The detailed instructions and procedures to accomplish this AD are described in the Embraer Service Bulletin No. 145-27-0113, original issue, 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.