



SERVIÇO PÚBLICO FEDERAL
DEPARTAMENTO DE AVIAÇÃO CIVIL

BRAZILIAN AIRWORTHINESS DIRECTIVE

EFFECTIVE DATE:

23 May 2006

AD No.:

2006-05-01

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. 2006-05-01 - EMBRAER - Amendment 39-1130.

APPLICABILITY:

This Airworthiness Directive is applicable to all Embraer EMB-145() and EMB-135() aircraft models in operation, equipped with Goodrich windshield temperature controller bearing P/N 3801D2().

CANCELLATION / REVISION:

Not applicable.

REASON:

It has been found the occurrence of smoke on board due to overheat of the windshield temperature controller power cable terminals, which is caused by poor electrical contact between the parts.

Since this condition exists 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:

Replacement of the attachment nuts and washers of the LH and RH windshield temperature controller power cable terminals; and inspection and replacement, if necessary, of the windshield temperature controller power cable terminals.

COMPLIANCE:

Required as indicated below, unless already accomplished.

- (a) Within the next 5000 flight hours after the effective date of this AD, replace the attachment nuts and the washers of the LH and RH windshield temperature controller power cable terminals with new ones bearing a new P/N; and
- (b) Carry out a detailed visual inspection (DET) on the windshield temperature controller power cable terminals for traces of overheating or melting of their plastic-made crimping ring, and the immediate section of the cable insulation. If evidences of overheating or melting are found on either the cable insulation or its crimping ring, replace both parts and the nuts and the washers as well, used to attach the LH and RH windshield temperature controller power cable terminals, according to the detailed instructions and procedures described in the Embraer Service Bulletins Nos. 145-30-0043, original issue, or 145LEG-30-0013, original issue, or further revisions approved by the CTA.

NOTE 1: Evidences of melting of the crimping ring require the replacement of the respective cable terminal.

NOTE2: 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 Bulletins Nos. 145-30-0043, original issue, and 145LEG-30-0013, original issue, or further revisions approved by the CTA.

NOTE: The accomplishment of the detailed instructions and procedures described in the Embraer Service Bulletins Nos. 145-30-0033 Rev. 06, or 145LEG-30-0010 Rev. 01, or further revisions approved by the CTA, are approved as alternative methods of compliance with the requirements of this AD.

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.