



SERVIÇO PÚBLICO FEDERAL

DEPARTAMENTO DE AVIAÇÃO CIVIL

BRAZILIAN AIRWORTHINESS DIRECTIVE

EFFECTIVE DATE

29 Nov. 2004

AD No.:

2004-01-02R2

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. 2004-01-02R2 - EMBRAER - Amendment 39-1056.

APPLICABILITY:

This Airworthiness Directive is applicable to all Embraer EMB-145() and EMB-135() aircraft models in operation.

CANCELLATION / REVISION:

This AD cancels and supersedes the AD No. 2004-01-02 Rev. 01 - Amdt 39-1028, dated 19 Jul. 2004, and is being issued to include an alternative means of compliance.

REASON:

It has been found the occurrence of cases where, due to the TAT sensor heating on the ground, the FADEC has failed to increase engine thrust during take-off in order to compensate for the ice accretion at engine fan blades. That condition may lead to insufficient thrust to safely complete the take-off.

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 TAT sensor heating system.

COMPLIANCE:

Required as indicated below, unless already accomplished.

- (a) Within the next 90 calendar days after 27 Jan. 2004, the effective date of the original issue of this AD, modify the TAT sensor heating system according to Embraer Service Bulletin No. 145-30-0028 Rev. 04, or further revisions approved by the CTA.

NOTE: The incorporation of version 7.6, or further ones, of the FADEC software **on both aircraft engines**, through Embraer Service Bulletins Nos. 145-73-0021, original issue, 145-73-0022, original issue, 145-73-0023, original issue, 145-73-0024, original issue, 145-73-0025, original issue, 145-73-0026, original issue, 145LEG-73-0003, original issue, or 145LEG-73-0004, original issue, or further revisions approved by the CTA, constitutes an alternative procedure to the modification of the TAT sensor heating required at item (a) above.

- (b) Within the next 90 calendar days after 19 Jul. 2004, the effective date of the revision 01 of this AD, modify the electrical installation of the TAT sensor heating system, if that installation has been done according to instructions of the revisions 04 thru 08 of the Embraer Service Bulletin No. 145-30-0028.

The detailed instructions and procedures to accomplish this AD are described in the Embraer Service Bulletin No. 145-30-0028 Rev. 09, 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.