



SERVIÇO PÚBLICO FEDERAL

DEPARTAMENTO DE AVIAÇÃO CIVIL

BRAZILIAN AIRWORTHINESS DIRECTIVE

EFFECTIVE DATE

29 Jun. 2005

AD No.:

2004-12-02R1

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. 2004-12-02R1 - EMBRAER - Amendment 39-1078.

APPLICABILITY:

This Airworthiness Directive is applicable to the Embraer EMB-145() aircraft of serial numbers 145104, 145122, 145140, 145154, 145257, 145263, 145365 and 145392, which have internal fuel tanks incorporated through Brazilian STC Nos. 2002S06-09 or 2002S06-10.

CANCELLATION / REVISION:

This AD cancels and supersedes the EAD No. 2004-12-02, original issue – Amdt 39-1064, dated 13 Dec. 2004, and is being issued to introduce a final solution to allow a relief for the restrictions imposed by the EAD No. 2004-12-02.

REASON:

It has been found the possibility of fuel leakage and fuselage tank deformation caused by the failure of the backup pressure relief valve during refueling operations when the air conditioning packs are ON.

Since this condition may occur in other airplanes of the same type and affects flight safety, an immediate corrective action is required. Thus, sufficient reason exists to request compliance with this AD in the indicated time limit.

REQUIRED ACTION:

Prohibition of refueling with the air-conditioning packs ON.

COMPLIANCE:

Required as indicated below, unless already accomplished.

- (a) Before next flight after 13 Dec. 2004, the effective date of the original issue of the EAD No. 2004-12-02, install at a place next to the refueling panel a placard with the following reading:

"O REABASTECIMENTO POR PRESSÃO OU POR GRAVIDADE DEVE SER REALIZADO COM AS PACKS DE AR CONDICIONADO DESLIGADAS"

"THE PRESSURE REFUELING OR THE GRAVITY REFUELING OPERATION SHALL BE DONE WITH THE AIR CONDITIONING PACKS OFF"

- (b) After 13 Dec. 2004, the effective date of the original issue of the EAD No. 2004-12-02, it is not allowed the pressure or gravity refueling of the tanks with the air conditioning packs ON.

NOTE: The embodiment of the modifications on the aft ventilation shut-off valve opening logic introduced by Embraer Service Bulletin No. 145SIV-28-0008, original issue, or further revisions approved by the CTA, constitutes an acceptable alternative means of compliance for the restrictions imposed on the items above, allowing the removal of the placard, operation and refueling of the aircraft without the restrictions listed above.

The detailed instructions and procedures to accomplish this AD are described in the Embraer Alert Service Bulletin No. 145SIV-28-A008, original issue, and Embraer Service Bulletin No. 145SIV-28-0008, 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:

Centro Técnico Aeroespacial - CTA
Instituto de Fomento e Coordenação Industrial - IFI
Divisão de Certificação de Aviação Civil - CAVC
Praça Mal. Eduardo Gomes, 50 - Vila das Acácias
Caixa Postal 6001
Fax: 55 (12) 3941-4766
12231-970 - São José dos Campos - SP, BRAZIL.
e-mail: pds@ifi.cta.br

For acquisition, contact:

Departamento de Aviação Civil - DAC
Seção de Publicações do DAC (4GAB-4)
R. Santa Luzia, 651, 2º Mezanino, Centro
Fax: 55 (21) 3814-6929
20030-040 - Rio de Janeiro - RJ, BRAZIL.
e-mail: publicacoes@dac.gov.br

APPROVAL:

GERALDO CURCIO NETO Ten Cel Av
Chief of the Civil Aviation Certification Division
IFI/CTA

LUIZ ALBERTO C. MUNARETTO Cel Av
Director of the Industrial Coordination and Fostering Institute
CTA

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.