



REPÚBLICA FEDERATIVA DO BRASIL
AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL – ANAC

BRAZILIAN AIRWORTHINESS DIRECTIVE

AD No.: 2006-02-03R2

Effective Date: 08 Oct. 2006

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. 2006-02-03R2 - EMBRAER - Amendment 39-1152.

APPLICABILITY:

This Airworthiness Directive is applicable to Embraer EMB-145() and EMB-135() aircraft models of serial numbers 145789, 145825, 145831, 145832, 145834, 145840, 145841, 145844, 145850, 145851, 145854, 145859, 145864, 145872, 145876, 145878, 145879, 145881, 145886, 145888, 145889, 145890, 145893 and 145896 in operation.

CANCELLATION / REVISION:

This AD cancels and supersedes the AD No. 2006-02-03R1 - Amdt 39-1140, dated 28 Jun. 2006, and is being issued to change its applicability.

REASON:

It has been found one failure of an electrical bonding cable fitting clamp of the fuel tubing. Further investigation has identified that a batch of such clamps was manufactured with incorrect material and was installed in several aircraft, which, therefore, are prone to the loss of bonding protection in the interior of the fuel tanks or in the adjacent areas.

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:

Replace the electrical bonding clamps inside the fuel tank and adjacencies.

COMPLIANCE:

Required as indicated below, unless already accomplished.

PART I - Within the next 5000 flight hours after 24 Feb. 2006, the effective date of the original issue of this AD, for the Embraer EMB-145() aircraft models:

- (a) Replace in the ventral tank, wing stub tank and wing tanks, the electrical bonding clamps P/N AN735D6 and AN735D4 and their attaching parts with others bearing the same corresponding P/N; and
- (b) After making the electrical bonding at the new clamps and their attaching parts, measure the electrical resistance between the tubes joined by the electrical bonding jumper.
 - (1) If the resistance value is greater than 200 milliohms, repeat items (a) and (b) above until the values found become smaller than 200 milliohms.
 - (2) If the resistance value is smaller than 200 milliohms, make the bonding protection in the ventral tank, wing stub tank and in the wing tank.

PART II - Within the next 5000 flight hours after 28 Jun. 2006, the effective date of the revision 01 of this AD, for the Embraer EMB-135() aircraft models, except for EMB-135BJ aircraft model, accomplish items (a) and (b) from PART I above.

PART III - Within the next 4000 flight hours or 48 calendar months after 28 Jun. 2006, the effective date of the revision 01 of this AD, whichever occurs first, for the Embraer EMB-135BJ aircraft model, accomplish items (a) and (b) from PART I above.

The detailed instructions and procedures to accomplish this AD are described in the Embraer Service Bulletins Nos. 145-28-0028, original issue, or 145LEG-28-0030, original issue, or further revisions approved by the ANAC.

Record compliance with this AD in the applicable maintenance log book.

CONTACT:

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APPROVAL:

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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 Agency of Civil Aviation (ANAC).