



AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL – BRAZIL

BRAZILIAN AIRWORTHINESS DIRECTIVE

AD No.: 2006-03-01R1

Effective Date: 15 Dec. 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. 2006-03-01R1 - EMBRAER - Amendment 39-1153.

APPLICABILITY:

This Airworthiness Directive is applicable to Embraer EMB-145EP, EMB-145ER, EMB-145EU and EMB-135ER aircraft models in operation.

CANCELLATION / REVISION:

This AD cancels and supersedes the AD No. 2006-03-01, original issue - Amdt 39-1122, dated 19 Apr. 2006, and is being issued to change its applicability.

REASON:

It has been found the possibility of occurrence of improper segregation and attachments of the Fuel Quantity Indication System (FQIS) harness from the DC Fuel Pump harness, which may lead to chafing between these harnesses or between some of them to the aircraft structure or between some of them to some mechanical component. In any case, a possible ignition source in the vicinity of the fuel tanks may develop.

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:

Inspection on the Fuel Quantity Indication System (FQIS) and DC fuel pump harnesses; and rerouting, if necessary, of DC fuel pump W505E harness.

COMPLIANCE:

Required as indicated below, unless already accomplished.

Within the next 5000 flight hours after 19 Apr. 2006, the effective date of the original issue of this AD, carry out a general visual inspection (GVI) on Fuel Quantity Indication System (FQIS) and DC fuel pump harnesses for attachments conditions and proper segregation from each other. If exists any harness with the possibility of chaffing against each other, against the aircraft structure or against a mechanical component, reroute the DC Fuel Pump harness W505E by installing a tiedown strap P/N MS3367-1-9X on both sides (LH and RH), according to the detailed instructions and procedures described in the Embraer Service Bulletin No. 145-28-0025, original issue, or further revisions approved by the ANAC.

NOTE: For the purpose of this AD a general visual inspection (GVI) is: "A visual examination of an interior or exterior area, installation or assembly to detect obvious damage, failure or irregularity. This level of inspection is made from within touching distance unless otherwise specified. A mirror may be necessary to enhance visual access to all exposed surfaces in the inspection area. This level of inspection is made under normally available lighting conditions such as daylight, hangar lighting, flashlight or drop-light, and may require removal or opening of access panels or doors. Stands, ladders or platforms may be required to gain proximity to the area being checked."

The detailed instructions and procedures to accomplish this AD are described in the Embraer Service Bulletin No. 145-28-0025, original issue, or further revisions approved by the ANAC.

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

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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).