



AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL – BRAZIL

BRAZILIAN AIRWORTHINESS DIRECTIVE

AD No.: 2010-09-02

Effective Date: 17 Oct. 2010

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. 2010-09-02 - EMBRAER - Amendment 39-1320.

APPLICABILITY:

This Airworthiness Directive is applicable to EMB-500 aircraft of serial numbers 50000005 thru 50000105.

CANCELLATION / REVISION:

Not applicable.

REASON:

It has been detected a short circuit in harness W101 due to its interference with the main door mechanism. Further analysis of the affected region has also revealed the possibility of chafing between the same harness and the oxygen tubing. The chafing of the wiring harness against the oxygen tubing could lead to a short circuit of the wiring harness and a subsequent fire in the airplane.

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:

Rework to adequately secure the harness.

COMPLIANCE:

Required as indicated below, unless already accomplished.

Within 600 flight hours (FH) or 12 months after the effective date of this AD, whichever comes first, to prevent chafing of harness W101 against the main door mechanism and oxygen tube, modify the installation of harness W101 within the cockpit area by installing clamps and protection sleeves and by reworking structures in order to eliminate the fretting spots of the harness with the main door locking mechanism and with the oxygen tube.

The detailed instructions and procedures to accomplish this AD are described in the Embraer Service Bulletin No. SB 500-24-0002, original issue, or further revisions approved by the ANAC.

Record compliance with this AD in the applicable maintenance logbook.

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 Aeronautical Products Certification Branch (GGCP) of the National Civil Aviation Agency (ANAC).