



AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL – BRAZIL

BRAZILIAN AIRWORTHINESS DIRECTIVE

AD No.: 2015-03-01

Effective Date: 23 Mar. 2015

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 da Aviação Civil (RBAC) 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. 2015-03-01 – Embraer S.A. / 39-1392.

APPLICABILITY:

(a) This Airworthiness Directive (AD) applies to the airplanes identified in paragraphs (a)(1) and (a)(2) of this AD.

(1) Embraer S.A. model EMB-145, EMB-145ER, EMB-145EU, EMB-145EP, EMB-145LR, EMB-145MR, EMB-145LU, EMB-145MP, EMB-145MK, EMB-135ER, EMB-135LR, EMB-135KE, and EMB-135KL airplanes, as identified in Embraer Service Bulletin (SB) 145-28-0030, revision 1, dated October 22, 2010.

(2) Embraer S.A. model EMB-135BJ airplanes, as identified in Embraer SB 145LEG-28-0032, revision 1, dated November 20, 2012.

CANCELLATION / REVISION:

Not applicable.

REASON:

Chafing between the fuel pump electrical harness and fuel pump tubing was detected during scheduled maintenance. We are issuing this AD to protect the fuel pump harnesses against chafing with other parts inside the fuel tank, which could present a potential ignition source that could result in a fire or fuel tank explosion.

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:

To inspect and to attach with clamps each electric fuel pump harness to the respective pump tubing.

COMPLIANCE:

Required as indicated below, unless already accomplished.

Inspection and installation

(b) For airplanes identified in paragraph (a)(1): within 2,500 flight hours or 24 months after the effective date of this AD, whichever occurs first, do the actions specified in paragraph (b)(1), and (b)(2) of this AD, in accordance with the Accomplishment Instructions of Embraer SB 145-28-0030, revision 01, dated October 22, 2010, or further revision approved by the ANAC.

(1) Do a Detailed Inspection (DET) for chafing on the electrical harness of each electrical fuel pump in the fuel tanks. If any chafing or discrepancy is found: Before further flight, replace the affected electrical fuel pump with a new or serviceable pump having the same part number, in accordance with the Accomplishment Instructions of Embraer SB 145-28-0030, revision 01, dated

October 22, 2010, or further revision approved by ANAC.

(2) Install clamps on the fuel pump electrical harnesses, in accordance with the Accomplishment Instructions of Embraer SB 145-28-0030, revision 01, dated October 22, 2010, or further revision approved by the ANAC.

(c) For airplanes identified in paragraph (a)(2): within 4,800 flight hours or 48 months after the effective date of this AD, whichever occurs first, do the actions specified in paragraph (c)(1), and (c)(2) of this AD, in accordance with the Accomplishment Instructions of Embraer SB 145LEG-28-0032, revision 01, dated November 20, 2012, or further revision approved by the ANAC.

(1) Do a Detailed Inspection for chafing on the electrical harness of each electrical fuel pump in the fuel tanks. If any chaffing or discrepancy is found: Before further flight, replace the affected electrical fuel pump with a new or serviceable pump having the same part number, in accordance with the Accomplishment Instructions of Embraer SB 145LEG-28-0032, revision 01, dated November 20, 2012, or further revision approved by ANAC.

(2) Install clamps on the fuel pump electrical harnesses, in accordance with the Accomplishment Instructions of Embraer SB 145LEG-28-0032, revision 01, dated November 20, 2012, or further revision approved by the ANAC.

Material Incorporated by Reference

(d) You must use Embraer SB 145-28-0030, revision 01, dated October 22, 2010 or 145LEG-28-0032, Revision 01, dated November 20, 2012, as applicable, or further revision approved by ANAC, to do the actions required by this AD, unless the AD specifies otherwise.

Credit for Previous Actions

(e) This paragraph provides credit for the actions required by paragraphs (b)(1), (b)(2), (c)(1), and (c)(2) of this AD, if those actions were performed before the effective date of this AD, using Embraer SB 145-28-0030, original issue, dated September 01, 2010 or Embraer SB 145LEG-28-0032, original issue, dated September 15, 2011, as applicable.

Alternative Means of Compliance (AMOC)

(f) A different method or a different compliance time, with the requirements of this AD, may be used if approved by the General Manager of the Aeronautical Product Certification Branch (Gerência-Geral de Certificação de Produtos Aeronáuticos – GGCP).

CONTACT:

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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).