



AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL – BRAZIL

BRAZILIAN AIRWORTHINESS DIRECTIVE

AD No.: 2006-09-04R1

Effective Date: 05 Feb. 2007

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. 2006-09-04R1 - EMBRAER - Amendment 39-1170.

APPLICABILITY:

This Airworthiness Directive is applicable to all Embraer ERJ-190() aircraft models in operation with engine main fuel pump part number (P/N) 2043M12P03 or P/N 2043M12P04 installed.

CANCELLATION / REVISION:

This AD cancels and supersedes the EAD No. 2006-09-04 – Amdt 39-1154, dated 15 September, 2006, and is being issued to replace engine main fuel pump P/N 2043M12P03 and P/N 2043M12P04 with a suitable one.

REASON:

It has been found instances of in flight engine flameout due to the engine main fuel pump malfunction. Investigations revealed that the cause was the failure of the fuel strainer flange which after breakage releases the filter set from the strainer body. The filter set impacts against the engine main fuel pump gears causing its jam and consequently fuel flow interruption, thus leading to engine flameout.

Since this condition exists in other aircraft 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:

Removal of engine main fuel pumps P/N 2043M12P03 or P/N 2043M12P04 and installation of a serviceable engine main fuel pump.

COMPLIANCE:

Required as indicated below, unless already accomplished.

- (a) For aircraft with engines equipped with main fuel pump P/N 2043M12P03 logging less than 300 flight hours or with engines incorporating main fuel pumps of serial numbers ATC60090, ATC60092, ATC60095, ATC60097, ATC60099 thru ATC60107, ATC60110, ATC60111, ATC60117 thru ATC60122, ATC60130 and ATC60136:
 - (1) Within the next 20 flight hours after 15 September 2006, the effective date of the original issue of this AD, remove from one engine the main fuel pump strainer; and
 - (2) Within the next 40 flight hours after 15 September 2006, the effective date of the original issue of this AD, remove from the other engine the main fuel pump strainer.
- (b) For aircraft with engines equipped with main fuel pump P/N 2043M12P03 logging more than 300 flight hours:
 - (1) Within the next 75 flight hours after 15 September 2006, the effective date of the original issue of this AD, remove from one engine the main fuel pump strainer; and

- (2) Within the next 150 flight hours after 15 September 2006, the effective date of the original issue of this AD, remove from the other engine the main fuel pump strainer.
- (c) Not later than April 30, 2007, remove engine main fuel pumps P/N 2043M12P03 and P/N 2043M12P04 from service and install a serviceable engine main fuel pump according instructions of Embraer Service Bulletin No. 190-73-0007.

NOTE 1: If for any reason this AD is being incorporated in both engines at the same aircraft stop, each engine should be serviced by a different maintenance crew.

NOTE 2: For the purpose of this AD, a suitable engine main fuel pump is one that does not have P/N 2043M12P03 or P/N 2043M12P04.

The detailed instructions and procedures to accomplish this AD are described in the Embraer Alert Service Bulletin No. 190-73-A007 original issue, for items (a) and (b) and in the Embraer Service Bulletin No. 190-73-0007 original issue, for item (c) or further revisions approved by the ANAC.

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

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 Agency of Civil Aviation (ANAC).