



SERVIÇO PÚBLICO FEDERAL

DEPARTAMENTO DE AVIAÇÃO CIVIL

BRAZILIAN AIRWORTHINESS DIRECTIVE

EFFECTIVE DATE:

04 February 2002

AD No.:

2001-12-03R1

The following Airworthiness Directive (AD), issued by the Departamento de Aviação Civil (DAC) in accordance with provisions of Chapter IV, Title III of Código Brasileiro de Aeronáutica - Law NR 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. 2001-12-03R1 - EMBRAER - Amendment 39-930.

APPLICABILITY:

This Airworthiness Directive is applicable to Embraer EMB-145() and EMB-135() aircraft serial numbers 145479 thru 145527, 145529 thru 145548, 145550, 145552 thru 145554, 145556 and 145557 equipped with the affected components.

CANCELLATION / REVISION:

This AD cancels and supersedes the AD No. 2001-12-03, original issue – Amdt 39-927, dated 04 Jan. 2002, and is being issued to modify the list of affected aircraft serial numbers and to correct the time of accomplishment.

REASON:

It has been found that some trunnion fittings have been manufactured with the web fillet radius smaller than the minimum design one. This fact may induce the occurrence of cracks at the root of the trunnion fillet radius through a fatigue process.

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, rework and application of shot-penning on the trunnion fitting web fillet radius.

COMPLIANCE:

Required as indicated below, unless already accomplished.

Before the aircraft completes 2000 total flight operating cycles, inspect on the trunnion fitting web for fillet radius dimensional discrepancy:

- (a) If a fillet radius value equal to or greater than 5 mm is found, no corrective action is required;
- (b) If a fillet radius value less than 1 mm is found, the fillet radius must be increased according to the instructions presented in PART II of the undermentioned SB, before the aircraft completes 2000 total flight operating cycles;
- (c) If a fillet radius value equal to or greater than 1 mm but less than 5 mm, the fillet radius must be increased according to the instructions presented in PART II of the undermentioned SB, before the aircraft completes 4000 total flight operating cycles; and,

- (d) If the final radius obtained after the trunnion fitting webs reworking is equal to or greater than 5 mm is found, shot-peen the reworked area according to PART III of the undermentioned SB after the rework performed according to items (b) or (c) above.

The detailed instructions and procedures to accomplish this AD are described in the Embraer Service Bulletin No. 145-57-0034, original issue, or further revisions approved by the CTA.

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

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 Registro Geral de Aeronavegabilidade (RGA/TE-1/STE) of the Departamento de Aviação Civil.