



SERVIÇO PÚBLICO FEDERAL

DEPARTAMENTO DE AVIAÇÃO CIVIL

BRAZILIAN AIRWORTHINESS DIRECTIVE

EFFECTIVE DATE:

24 April 2002

AD No.:

2002-04-01

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 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. 2002-04-01 - EMBRAER - Amendment 39-942.

APPLICABILITY:

This Airworthiness Directive is applicable to all Embraer EMB-145() and EMB-135() aircraft models in operation.

CANCELLATION / REVISION:

Not applicable.

REASON:

It has been found one case of looseness of the horizontal stabilizer actuator (HSA) primary system clutch nut due to incorrect procedures at key washer installation, which caused the loss of both pitch trim control channels.

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 without prior notice.

REQUIRED ACTION:

Inspection of the HSA primary control channel clutch key washer.

COMPLIANCE:

Required as indicated below, unless already accomplished.

Within 30 days after the effective date of this AD, verify the P/N and S/N of the HSA units installed on the affected aircraft and perform the following:

- (a) If the P/N of the installed unit is 362200-1011 or 362200-1013, and the unit S/N is included among the following: 0390 thru 0408, 0413 thru 0439, 0441 thru 0487, 0489 thru 0504, 0506 thru 0508, 0510, 0512 thru 0531 or 0534 thru 0548, perform a visual inspection of the clutch assembly to verify that at least one of the locking tabs on the key washer is bent against the clutch nut; if none of the locking tabs on the key washer is bent, replace the HSA with a serviceable unit; if at least one of the locking tabs on the key washer is bent, no corrective action is necessary; and
- (b) If the unit installed is not included among the affected units, according to the list on item (a) above, no additional action is necessary.

After the effectivity date of this AD, no HSA unit included on the list of the item (a) above should be installed on an aircraft unless the required inspection in such item is previously performed.

The detailed instructions and procedures to accomplish this AD are described in the Embraer Service Bulletin No.145-27-0088, 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.