



## AIRWORTHINESS DIRECTIVE

CIVIL AVIATION AUTHORITY  
CZECH REPUBLIC  
Airworthiness Division

*Airport Ruzyně, 160 08 Prague 6  
Tel: 420 233320922, fax: 420 220562270*

**Number: CAA-AD-065/2004**

Date of issue: July 19, 2004

**EMBRAER**

EMB-145( ), EMB-135( )

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*This AD has been issued in accordance with Decision No.: 2/2003 of the Executive Director of the EASA (ADs issued by the state of design are automatically adopted in EU member states).*

### AIRCRAFT - MAIN LANDING GEAR LEG STRUT - INSPECTION/REPLACEMENT

**Applicability:** Embraer EMB-145( ) and EMB-135( ) aircraft models in operation, equipped with the main landing gear leg strut with P/N and S/N listed at the table in DAC AD 2002-12-01R1.

**Effective date:** September 02, 2004

**Compliance:** Required as indicated DAC AD 2002-12-01R1.

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*Remarks: The compliance of this AD must be recorded in Aircraft Logbook, where applicable the requirements of this AD must be integrated into Aircraft Technical Documentation. Address inquiries concerning this AD to: Civil Aviation Authority, Airworthiness Division, Ruzyně Airport, 160 08 Prague 6, Czech Republic, tel.: 420 2 33320922, fax: 420 2 20562270.*

**Ing. Pavel MATOUŠEK**  
**Director**

**BRAZILIAN AIRWORTHINESS DIRECTIVE**  
**AD No.: 2002-12-01 R1**

**EFFECTIVE DATE: 20 jul. 2004**

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. 2002-12-01 R1 - EMBRAER - Amendment 39-1029.**

**APPLICABILITY:**

This Airworthiness Directive is applicable to all Embraer EMB-145( ) and EMB-135( ) aircraft models in operation, equipped with the main landing gear leg strut with P/N and S/N listed at the table below:

P/N	S/N	P/N	S/N
2309-3002-501	01 thru 03	2309-3002-502	01 thru 03
2309-3002-503	04 thru 25 and 27 thru 33	2309-3002-504	04 thru 25 and 27 thru 33
2309-3002-505	26 and 34 thru 50	2309-3002-506	26 and 34 thru 51
2309-3002-507	68, 76 and 77	2309-3002-508	67 and 76
2309-2002-001	02 and 03	2309-2002-004	01 and 05
2309-2002-003	01 and 07	2309-2002-006	02 and 04
2309-2002-005	04 and 06	2309-2002-010	04
2309-2002-009	06	2309-2002-502	06 thru 34
2309-2002-501	09 and 35	2309-2002-504	35 thru 53 and 55
2309-2002-503	36 thru 54 and 56	2309-2002-506	54 and 56 thru 71
2309-2002-505	55 and 57 thru 72	2309-2002-508	72 thru 86
2309-2002-507	73 thru 87	2309-2002-510	95 thru 98, 106 and 107
2309-2002-509	95 thru 98, 106 and 107		

**CANCELLATION / REVISION:**

This AD cancels and supersedes the AD No. 2002-12-01 – Amdt 39-969, original issue, dated 06 Jan. 2003, and is being issued to modify the applicability to include new P/N and restrict applicability to only certain main landing gear leg S/N.

**REASON:**

It has been found the occurrence of corrosion on the main landing gear leg strut bushing housings caused by water accumulated in the holes of the bushings, which can lead to a main landing gear failure.

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 of the bushing housings and replacement of the main landing gear leg strut bushings.

**COMPLIANCE:**

Required as indicated below, unless already accomplished.

Within the next 2500 flight hours after the effective date of this revision 01:

(a) Inspect the main landing gear leg strut bushing housings; if corrosion is found, repair before next flight; and,

**(b)** Regardless of their condition, replace the bushings P/N 2309-2022-001 by other bearing with a new P/N, according to the Embraer Service Bulletin No. 145-32-0066 Rev. 01, or further revisions approved by the CTA.

The detailed instructions and procedures to accomplish this AD are described in the Embraer Service Bulletin No. 145-32-0066 Rev. 01, or further revisions approved by the CTA.

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

**CONTACT:**

For additional technical information, contact:

Centro Técnico Aeroespacial - CTA  
Instituto de Fomento e Coordenação Industrial - IFI  
Divisão de Homologação Aeronáutica - FDH  
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For acquisition, contact:

Departamento de Aviação Civil - DAC  
Seção de Publicações do DAC (4GAB-4)  
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**APPROVAL:**

CLÁUDIO PASSOS SIMÃO - Ten.-Cel.-Eng.  
Chief of the Aeronautical Certification Division  
IFI/CTA

VENÂNCIO ALVARENGA GOMES - Cel.-Eng.  
Director of the Industrial Coordination and Fostering Institute  
CTA

**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.