



AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL – BRAZIL

BRAZILIAN AIRWORTHINESS DIRECTIVE

AD No.: 2006-03-03R1

Effective Date: 09 Nov. 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. 2006-03-03R1 - EMBRAER - Amendment 39-1217.

APPLICABILITY:

This Airworthiness Directive is applicable to all Embraer ERJ-190 aircraft models.

CANCELLATION / REVISION:

This AD cancels and supersedes the AD No. 2006-03-03 original issue – Amdt 39-1124, dated 21 Apr. 2006, and is being issued to include a final action.

REASON:

It has been found during an actual landing operation that the re-stow of the thrust reverser may not happen as desired if the throttle lever is moved back out of the reverse range, immediately (that is, within less than 0.2 seconds) after the thrust reverser has been commanded. Although unlikely, if a pilot subsequently chooses to perform a take-off, the airplane may get airborne with a partially deployed thrust reverser, which is an unsafe condition.

Since this condition exists and 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:

Inclusion of a temporary limitation to the ANAC-approved Airplane Flight Manual (AFM) to prohibit a throttle movement into the forward thrust range immediately following a thrust reverser application; and installation of a new engine Full-Authority Digital Engine Control (FADEC) software.

COMPLIANCE:

Required as indicated below, unless already accomplished.

- (a) Within the next 7 days after 21 Apr. 2006, the effective date of the original issue of this AD, revise the Limitations Section of the ANAC-approved AFM to add the following statement:

"After applying thrust reverser, do not move the throttle back to the forward thrust range, unless the REV icon on the EICAS is shown amber or green."

This may be accomplished by inserting a copy of this AD into the referred section of the AFM.

NOTE: The above limitation / procedure is not required if the engine FADEC software version is the 5.10 or 5.20, as applicable, or higher (either factory-installed or installed by Embraer Service Bulletin No. 190-73-0005 or 190-73-0009, as described in item (b) below).

- (b) Within the next 1200 flight hours after the effective date of Rev. 1 of this AD, install the engine FADEC software version 5.10 or 5.20, as applicable, or higher in accordance with the Embraer Service Bulletin No. 190-73-0005 or 190-73-0009.

The detailed instructions and procedures to accomplish this AD are described in the Embraer Service Bulletin No. 190-73-0005 original issue or No. 190-73-0009 original issue, as applicable, or in its further revisions approved by the ANAC.

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

CONTACT:

For additional technical information, contact:

National Civil Aviation Agency (ANAC)
Aeronautical Products Certification Branch (GGCP)
Av. Cassiano Ricardo, 521, Bloco B, 2º andar, Parque Residencial Aquarius
Fax: 55 (12) 3797-2330
12246-870 – São José dos Campos - SP, BRAZIL.
E-mail: pds@anac.gov.br

For acquisition, contact:

National Civil Aviation Agency (ANAC)
Publications Branch
R. Santa Luzia, 651, 2º Mezanino, Centro
Fax: 55 (21) 3814-6929
20030-040 – Rio de Janeiro - RJ, BRAZIL.
E-mail: publicacoes@anac.gov.br

APPROVAL:

CLÁUDIO PASSOS SIMÃO
General Manager
GGCP

MILTON ZUANAZZI
Director-President
ANAC

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).