



## AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL – BRAZIL

### BRAZILIAN AIRWORTHINESS DIRECTIVE

**AD No.: 2010-07-02**

**Effective Date: 31 Jul. 2010**

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. 2010-07-02 - EMBRAER - Amendment 39-1308.**

##### **APPLICABILITY:**

This Airworthiness Directive is applicable to Embraer model ERJ 170-100 STD, ERJ 170-100 LR, ERJ 170-100 SU, ERJ 170-100 SE, ERJ 170-200 STD, ERJ 170-200 LR and ERJ 170-200 SU airplanes, all serial numbers.

##### **CANCELLATION / REVISION:**

Not applicable.

##### **REASON:**

It has been found the possibility of right hand (RH) engine compressor stall after the Auxiliary Power Unit (APU) becomes the active bleed source for the left side.

The most critical condition identified is:

- Both engines close to idle (e.g.: descent phase); and
- APU running; and
- APU bleed button pushed in.

In this condition, if the left hand (LH) engine fails, the APU bleed valve and the cross-bleed valve may be both in the open position for a few seconds, what may lead to a backpressure in RH engine depending on APU bleed pressure. Such backpressure may cause an RH engine compressor stall, culminating in a dual engine failure.

Since this condition affects flight safety, a corrective action is required. Thus, sufficient reason exists to request compliance with this AD.

##### **REQUIRED ACTION:**

Revision of the approved Airplane Flight Manual (AFM).

##### **COMPLIANCE:**

Required as indicated below, unless already accomplished.

Within 10 days after the effective date of this AD, revise the Limitation Section of the AFM to include the information in the EMBRAER Operational Bulletin (OB) 170-001/09 Revision 01, dated Feb 10, 2010.

**NOTE 1:** The action required by this AD may be done by inserting a copy of the OB specified by this AD into the applicable AFM.

**NOTE 2:** The limitation specified by this AD is considered an interim solution until a final action is identified, at which time the ANAC may consider the issuance of a further rulemaking.

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 Aeronautical Products Certification Branch (GGCP) of the National Civil Aviation Agency (ANAC).

SUPERSEDED