



Boletim Especial de Aeronavegabilidade *(Special Airworthiness Bulletin)*

ATA: 27-40 Flight Controls – Horizontal Stabilizer

BEA Nº 2015-02

Subject: Control-Yoke Support Installation

Date: May 22, 2015

Introduction:

This Boletim Especial de Aeronavegabilidade advises owners and operators of Embraer S.A. model ERJ 170 and ERJ 190 airplanes about inverted (up-side-down) installation of the control-yoke pitch trim switches, which causes opposite commands on the horizontal stabilizer.

This document has information and not mandatory recommendations, therefore, until this time there is no reason to issue an Airworthiness Directive in accordance with Regulamento Brasileiro da Aviação Civil (RBAC) Nº 39 requirements.

Manufacturer: Embraer S.A.

Affected Aeronautic Product: Embraer S.A. model ERJ 170-100 LR, ERJ 170-100 STD, ERJ 170-100 SU, ERJ 170-100 SE, ERJ 170-200 LR, ERJ 170-200 STD e ERJ 170-200 SU; and Embraer S.A. model ERJ 190-100 STD, ERJ 190-100 LR, ERJ 190-100 IGW, ERJ 190-100 SR, ERJ 190-200 STD, ERJ 190-200 LR and ERJ 190-200 IGW, as identified in Embraer service bulletin 170-27-0051, 190-27-0039 or 190LIN-27-0019, as applicable.

Background:

We have become aware of cases of inverted installation (up-side-down) of the pitch trim switches in the control yoke. This inversion, if not detected by the pilots during the preflight nor promptly detected by the pilot flying, during the flight when pitch trimming the airplane, it could result in a significant pitch mistrim which, in turn, would reduce the airplane controllability.

Embraer S.A. has issued Service Bulletin (SB) 170-27-0051, SB 190-27-0039 and SB 190LIN-27-0019 to provide owners and operators with guidelines to modify the control-yoke by installing a more effective error-proofing device on the control-yoke.

Recommendations:

The ANAC recommends that all owners and operators modify the affected airplanes in accordance with the instructions contained in Embraer S.A. Service Bulletin (SB) 170-27-0051, 190-27-0039 or 190LIN-27-0019, as applicable.

Reference documents:

- 1) Embraer S.A. Service Bulletin (SB) 170-27-0051, original issue, dated 27 February 2015 or further revisions.
- 2) Embraer S.A. Service Bulletin (SB) 190-27-0039, original issue, dated 27 February 2015 or further revisions.
- 3) Embraer S.A. Service Bulletin (SB) 190LIN-27-0019, original issue, dated 12 March 2015 or further revisions.

For further information contact

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