



AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL - BRAZIL

BRAZILIAN AIRWORTHINESS DIRECTIVE

AD No.: 2022-07-01

Effective Date: 11 Jul. 2022

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 da Aviação Civil (RBAC) 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. 2022-07-01 - EMBRAER / 39-1499.

APPLICABILITY:

This Airworthiness Directive (AD) applies to Embraer S.A. airplanes model ERJ 190-300 and ERJ 190-400 as identified in Embraer Service Bulletin N. 190E2-54-0006, revision 01, dated May 06, 2022.

CANCELLATION / REVISION:

Not applicable.

REASON:

It has been reported friction marks on the engine fire extinguishing tubes, in the region of the aft fairing of the Left Hand (LH) pylon, caused by a small clearance between parts and the displacements of the tube and pylon access panel. The damage on engine fire extinguishing tube is a latent failure, which may preclude the engine fire extinguishing system of the airplane to properly perform its intended function.

Since this condition may occur in other airplanes 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:

Rework of the retainer of the LH engine pylon access panel, inspection and replacement, if necessary, of the fire extinguishing system tube of the engine LH and installation of a new support.

COMPLIANCE:

Required as indicated below, unless already accomplished.

Within 1250 Flight Hours (FH) or 6 months after the effective date of this AD, whichever occurs first, do the following actions.

(a) Rework of the retainer of the LH pylon access panel.

(1) Rework the retainers of the LH pylon access panel identifying them with a new Part Number (P/N) 196-30824-407 and P/N 196-30696-413, respectively, according to the detailed instructions and procedures described in Embraer Service Bulletin N. 190E2-54-0006, revision 01, dated May 06, 2022.

(b) Inspection, replacement of the fire extinguishing system tube and support installation.

(1) For the airplanes having the fire extinguishing system tube of the engine LH with P/N 196-74616-403, replace it with another with P/N 196-74616-405.

(2) For the airplanes having the fire extinguishing system tube of the engine LH with P/N 196-74616-405, do a General Visual Inspection (GVI) looking for existing damages.

(i) If there is any sign of damages on the tube, replace it by another with the same P/N 196-74616-405.

(ii) If there is no sign of damages on the tube, it is not necessary its replacement.

(3) Install the support of the fire extinguishing system tube of the engine LH with P/N 196-32145-401.

(c) Credit for previous actions.

(1) This paragraph provides credit for the actions specified in paragraph (a)(1), (b)(1) and (b)(2) of this AD, if those actions were performed before the effective date of this AD according to Embraer Service Bulletin N.190E2-54-0006, Original Revision, dated June 30, 2020.

(2) This paragraph provides credit for the actions specified in paragraph (b)(3) of this AD, if those actions were performed before the effective date of this AD according to Embraer Service Bulletin N.190E2-54-0006, Original Revision, dated June 30, 2020, provided an additional verification is done that P/N 196-32145-401 is installed.

(d) Alternative methods of compliance (AMOCs).

(1) A different method or a different compliance time, with the requirements of this AD, may be used if approved by the Manager of the Continuing Airworthiness Technical Branch (GTAC) of ANAC.

(2) For service information that contains steps that are labeled as "Required for Compliance (RC)", the provisions of paragraphs (d)(2)(i) and (d)(2)(ii) of this AD apply.

(i) The steps labeled as RC, including substeps under a RC step and any figures identified in a RC step, must be done to comply with the AD. If a step or substep is labeled "RC Exempt," then the RC requirement is removed from that step or substep. An AMOC is required for any deviations to RC steps, including substeps and identified figures.

(ii) Steps not labeled as RC may be deviated from using accepted methods in accordance with the operator's maintenance or inspection program without obtaining approval of an AMOC, provided the RC steps, including substeps and identified figures, can still be done as specified, and the airplane can be put back in an airworthy condition.

(e) Material incorporated by reference.

You must use the Embraer Service Bulletin N. 190E2-54-0006, revision 01, dated May 06, 2022; or further revisions approved by ANAC, to do the actions required by this AD, unless this AD specifies otherwise.

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

CONTACT:

For additional technical information, contact:

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APPROVAL:

MARCO AURÉLIO BONILAURI SANTIN
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NOTA: Original in Portuguese language signed and available in the files of the Continuing Airworthiness Technical Branch (GTAC) of the National Civil Aviation Agency (ANAC).

Referência: Processo nº 00066.005043/2022-31

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