



AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL – BRAZIL

BRAZILIAN AIRWORTHINESS DIRECTIVE

AD No.: 2014-07-01

Effective Date: 10 Jul. 2014

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. 2014-07-01 – EMBRAER S.A. / 39-1384.

APPLICABILITY:

This Airworthiness Directive is applicable to Embraer S.A. model ERJ 190-100STD, ERJ 190-100 LR, ERJ 190-100 IGW, ERJ 190-100 ECJ, ERJ 190-100 SR, ERJ 190-200STD, ERJ 190-200 LR, and ERJ 190-200 IGW airplanes; as identified in Group 1, Group 2 and Group 3 of Embraer Service Bulletin 190-54-0015, original issue, dated July 3, 2014, and 190LIN-54-0006, original issue, dated July 3, 2014, as applicable.

CANCELLATION / REVISION:

This AD supersedes Emergency Airworthiness Directive (EAD) 2014-06-02 – EMBRAER S.A. / 39-1383.

REASON:

It has been found that repetitive tightening torque check required by EAD 2014-06-02 – EMBRAER S.A. / 39-1383 may not be sufficient to prevent the lower inboard and outboard link fitting attaching parts, of the left hand (LH) and right hand (RH) pylon, from getting loose which could lead to the failure of one of those fittings and the consequent separation of the engine from the wing.

Since this condition may occur in other aircrafts of the same type and affects flight safety, an immediate corrective action is required. Thus, sufficient reason exists to request compliance with this AD in the indicated time limit without prior notice.

REQUIRED ACTION:

To re-torque and to replace the lower inboard and outboard link fitting attaching parts on the left hand (LH) and right hand (RH) engine pylon. This AD is considered an interim action. If final action is later identified, we might consider further rulemaking then.

COMPLIANCE:

Do the actions required by this AD within the compliance times specified, unless the actions have already been done.

For airplanes identified in Embraer ASB 190-54-A015

Retained re-torque of the LH lower inboard and outboard link fitting

(a) For Group 1 airplanes that have incorporated Embraer Service Bulletin (SB) 190-54-0013, and Group 2 airplanes, as identified in Embraer ASB 190-54-A015, revision 3, dated June 27, 2014: Within the applicable compliance time specified in paragraph E (1), "Compliance", of Embraer ASB 190-54-A015, revision 3, dated June 27, 2014, after June 27, 2014, the effective date of EAD 2014-06-02, re-

torque the LH lower inboard and outboard link fitting in accordance with Part I of the Accomplishment Instructions of Embraer ASB 190-54-A015, revision 3, dated June 27, 2014.

Retained re-torque of the RH lower inboard and outboard link fitting

(b) For Group 1 airplanes that have incorporated Embraer Service Bulletin (SB) 190-54-0013, and Group 2 airplanes, as identified in Embraer ASB 190-54-A015, revision 3, dated June 27, 2014: Within the applicable compliance time specified in paragraph E(2), "Compliance", of Embraer ASB 190-54-A015, revision 3, dated June 27, 2014, after June 27, 2014, the effective date of EAD 2014-06-02, re-torque the RH lower inboard and outboard link fitting in accordance with Part II of the Accomplishment Instructions of Embraer ASB 190-54-A015, revision 3, dated June 27, 2014.

For airplanes identified in Embraer ASB 190LIN-54-A006

Retained re-torque of the LH lower inboard and outboard link fitting

(c) For Group 1 airplanes that have incorporated Embraer Service Bulletin (SB) 190LIN-54-0004, and Group 2 airplanes, as identified in Embraer ASB 190LIN-54-A006, revision 2, dated June 27, 2014: Within the applicable compliance time specified in paragraph E(1), "Compliance", of Embraer 190LIN-54-A006, revision 2, dated June 27, 2014, after June 27, 2014, the effective date of EAD 2014-06-02, re-torque the LH lower inboard and outboard link fitting in accordance with Part I of the Accomplishment Instructions of Embraer ASB 190LIN-54-A006, revision 2, dated June 27, 2014.

Retained re-torque of the RH lower inboard and outboard link fitting

(d) For Group 1 airplanes that have incorporated Embraer Service Bulletin (SB) 190LIN-54-0004, and Group 2 airplanes, as identified in Embraer ASB 190LIN-54-A006, revision 2, dated June 27, 2014: Within the applicable compliance time specified in paragraph E(2), "Compliance", of Embraer ASB 190LIN-54-A006, revision 2, dated June 27, 2014, after June 27, 2014, the effective date of EAD 2014-06-02, re-torque the RH lower inboard and outboard link fitting in accordance with Part II of the Accomplishment Instructions of Embraer ASB 190LIN-54-A006, revision 2, dated June 27, 2014.

New requirements of this AD - airplanes identified in Embraer SB 190-54-0015

Replacement of the LH lower inboard and outboard link fitting attaching parts

(e) For group 1 airplanes that have incorporated Embraer SB 190-54-0013, and Group 2 airplanes, as identified in Embraer SB 190-54-0015, original issue, dated July 3, 2014: Within the applicable compliance time specified in paragraph E(1), "Compliance", of Embraer SB 190-54-0015, original issue, dated July 3, 2014, after July 3, 2014, replace the LH lower inboard and outboard link fitting attaching parts in accordance with Part I of the Accomplishment Instructions of Embraer SB 190-54-0015, original issue, dated July 3, 2014, or further revisions approved by the ANAC.

Replacement of the RH lower inboard and outboard link fitting attaching parts

(f) For group 1 airplanes that have incorporated Embraer SB 190-54-0013, and Group 2 airplanes, as identified in Embraer SB 190-54-0015, original issue, dated July 3, 2014: Within the applicable compliance time specified in paragraph E(2), "Compliance", of Embraer SB 190-54-0015, original issue, dated July 3, 2014, after July 3, 2014, replace the RH lower inboard and outboard link fitting attaching parts in accordance with Part II of the Accomplishment Instructions of Embraer SB 190-54-0015, original issue, dated July 3, 2014, or further revisions approved by the ANAC.

Re-torque of the LH lower inboard and outboard link fitting attaching parts

(g) For groups 1, 2 and 3 airplanes, as identified in Embraer SB 190-54-0015, original issue, dated July 3, 2014: Within the applicable compliance time specified in paragraph E(3), "Compliance", of Embraer SB 190-54-0015, original issue, dated July 3, 2014, after July 3, 2014, re torque the LH lower inboard and outboard link fitting attaching parts in accordance with Part III of the Accomplishment Instructions of Embraer SB 190-54-0015, original issue, dated July 3, 2014. Repeat the action required by

this paragraph thereafter at intervals not to exceed 6000 flight cycles or 7500 flight hours, whichever occurs first.

Re-torque of the RH lower inboard and outboard link fitting attaching parts

(h) For groups 1, 2 and 3 airplanes, as identified in Embraer SB 190-54-0015, original issue, dated July 3, 2014: Within the applicable compliance time specified in paragraph E(4), "Compliance", of Embraer SB 190-54-0015, original issue, dated July 3, 2014, after July 3, 2014, re torque the RH lower inboard and outboard link fitting attaching parts in accordance with Part IV of the Accomplishment Instructions of Embraer SB 190-54-0015, original issue, dated July 3, 2014. Repeat the action required by this paragraph thereafter at intervals not to exceed 6000 flight cycles or 7500 flight hours, whichever occurs first.

New requirements of this AD - airplanes identified in Embraer SB 190LIN-54-0006

Replacement of the LH lower inboard and outboard link fitting attaching parts

(i) For group 1 airplanes that have incorporated Embraer SB 190LIN-54-0004, and Group 2 airplanes, as identified in Embraer SB 190LIN-54-0006, original issue, dated July 3, 2014: Within the applicable compliance time specified in paragraph E(1), "Compliance", of Embraer SB 190LIN-54-0006, original issue, dated July 3, 2014, after July 3, 2014, replace the LH lower inboard and outboard link fitting attaching parts in accordance with Part I of the Accomplishment Instructions of Embraer SB 190LIN-54-0006, original issue, dated July 3, 2014, or further revisions approved by the ANAC.

Replacement of the RH lower inboard and outboard link fitting attaching parts

(j) For group 1 airplanes that have incorporated Embraer SB 190LIN-54-0004, and Group 2 airplanes, as identified in Embraer SB 190LIN-54-0006, original issue, dated July 3, 2014: Within the applicable compliance time specified in paragraph E(2), "Compliance", of Embraer SB 190LIN-54-0006, original issue, dated July 3, 2014, after July 3, 2014, replace the RH lower inboard and outboard link fitting attaching parts in accordance with Part II of the Accomplishment Instructions of Embraer SB 190LIN-54-0006, original issue, dated July 3, 2014, or further revisions approved by the ANAC.

Re-torque of the LH lower inboard and outboard link fitting attaching parts

(k) For groups 1, 2 and 3 airplanes, as identified in Embraer SB 190LIN-54-0006, original issue, dated July 3, 2014: Within the applicable compliance time specified in paragraph E(3), "Compliance", of Embraer SB 190LIN-54-0006, original issue, dated July 3, 2014, after July 3, 2014, re-torque the LH lower inboard and outboard link fitting attaching parts in accordance with Part III of the Accomplishment Instructions of Embraer SB 190LIN-54-0006, original issue, dated July 3, 2014. Repeat the action required by this paragraph thereafter at intervals not to exceed 2000 flight cycles or 7500 flight hours, whichever occurs first.

Re-torque of the RH lower inboard and outboard link fitting attaching parts

(l) For groups 1, 2 and 3 airplanes, as identified in Embraer SB 190LIN-54-0006, original issue, dated July 3, 2014: Within the applicable compliance time specified in paragraph E(4), "Compliance", of Embraer SB 190LIN-54-0006, original issue, dated July 3, 2014, after July 3, 2014, re-torque the RH lower inboard and outboard link fitting attaching parts in accordance with Part IV of the Accomplishment Instructions of Embraer SB 190LIN-54-0006, original issue, dated July 3, 2014. Repeat the action required by this paragraph thereafter at intervals not to exceed 2000 flight cycles or 7500 flight hours, whichever occurs first.

Part Installation

(m) As of the effective date of this AD, no person shall incorporate Embraer SB 190-54-0013 and 190LIN-54-0004, as applicable, on any airplane.

Material incorporated by reference

(n) You must use Embraer ASB 190-54-A015, revision 3, dated June 27, 2014; Embraer ASB 190LIN-54-A006, revision 2, dated June 27, 2014; Embraer SB 190-54-0015, original issue, dated July 3, 2014; or Embraer SB 190LIN-54-0006, original issue, dated July 3, 2014, as applicable, or further revisions approved by the ANAC, to do the actions required by this AD, unless the AD specifies otherwise.

Alternative methods of compliance (AMOCs)

(o) A different method or a different compliance time, with the requirements of this AD, may be used if approved by the General Manager of the Aeronautical Product Certification Branch (Gerência-Geral de Certificação de Produtos Aeronáuticos – GGCP).

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).