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DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2022-0148; Project Identifier AD-2021-00922-T; Amendment 39-22110; AD 2022-14-05]

RIN 2120-AA64

Airworthiness Directives; The Boeing Company Airplanes

AGENCY:

Federal Aviation Administration (FAA), DOT.

ACTION:

Final rule; correction.

SUMMARY:

The FAA is correcting an airworthiness directive (AD) that was published in the **Federal Register**. That AD superseded AD 2015-12-03, and applies to all The Boeing Company Model 777-200, -200LR, -300, and -300ER series airplanes, and certain Model 777F airplanes. As published, a freeplay indicator value in the regulatory text is incorrect, and certain credit service information was omitted for certain actions in the regulatory text. This document corrects those errors. In all other respects, the original document remains the same.

DATES:

This correction is effective October 12, 2022. The effective date of AD 2022-14-05 remains October 12, 2022.

The Director of the Federal Register approved the incorporation by reference of a certain publication listed in this AD as of October 12, 2022 ([87 FR 54609](#), September 7, 2022).

The Director of the Federal Register approved the incorporation by reference of a certain other publication listed in this AD as of July 21, 2015 ([80 FR 34252](#), June 16, 2015).

ADDRESSES:

AD Docket: You may examine the AD docket at *regulations.gov* by searching for and locating Docket No. FAA-2022-0148; or in person at Docket Operations between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The AD docket contains this final rule, any comments received, and other information. The street address for Docket Operations is listed above.

Material Incorporated by Reference:

- For service information identified in this final rule, contact Boeing Commercial Airplanes, Attention: Contractual & Data Services (C&DS), 2600 Westminister Blvd., MC 110-SK57, Seal Beach, CA 90740-5600; telephone 562-797-1717; website *myboeingfleet.com*.
- You may view this referenced service information at the FAA, Airworthiness Products Section, Operational Safety Branch, 2200 South 216th St., Des Moines, WA. For information on the availability of this material at the FAA, call 206-231-3195. It is also available at *regulations.gov* by searching for and locating Docket No. FAA-2022-0148.

FOR FURTHER INFORMATION CONTACT:

Luis Cortez-Muniz, Aerospace Engineer, Airframe Section, FAA, Seattle ACO Branch, 2200 South 216th St., Des Moines, WA 98198; phone: (206) 231-3958; email: Luis.A.Cortez-Muniz@faa.gov.

SUPPLEMENTARY INFORMATION:

AD 2022-14-05, Amendment 39-22110 ([87 FR 54609](#), September 7, 2022) (AD 2022-14-05), superseded AD 2015-12-03, Amendment 39-18176 ([80 FR 34252](#), June 16, 2015) (AD 2015-12-03). AD 2022-14-05 retains the requirements for repetitive freeplay inspections and lubrication of the right and left elevators, rudder, and rudder tab, and related investigative and corrective actions if necessary. AD 2022-14-05 also requires revising the existing maintenance or inspection program, as applicable, for certain other airplanes, to incorporate a revised or new elevator freeplay maintenance procedure, as applicable. AD 2022-14-05 applies to all The Boeing Company Model 777-200, -200LR, -300, and -300ER series airplanes, and certain Model 777F airplanes.

Need for Correction

As published, paragraphs (j)(3) and (l) of AD 2022-14-05 are incorrect.

Paragraph (j)(3) of AD 2022-14-05 requires incorporating a revision of the elevator freeplay dial indicator limit to “0.34 in. (152 mm) or less.” The correct value is “0.34 in. (8.636 mm) or less.”

Additionally, paragraph (l) of AD 2022-14-05 inadvertently omitted credit for certain actions that was previously provided in AD 2015-12-03 for the following service information: Boeing Special Attention Service Bulletin 777-27-0062, dated July 18, 2006, and Revision 1, dated October 1, 2009. The FAA intended for that service information to be retained as credit for the corresponding retained actions in AD 2022-14-05.

Related Service Information Under [1 CFR Part 51](#)

The FAA reviewed Boeing Special Attention Service Bulletin 777-27-0062, Revision 4, dated July 15, 2021. This service information specifies procedures for changing the elevator freeplay instructions by adding changes to the input force, elevator freeplay limit, and power control unit (PCU) bypass test setup.

This AD also requires Boeing Special Attention Service Bulletin 777-27-0062, Revision 2, dated January 27, 2014, which the Director of the Federal Register approved for incorporation by reference as of July 21, 2015 ([80 FR 34252](#), June 16, 2015).

This service information is reasonably available because the interested parties have access to it through their normal course of business or by the means identified in **ADDRESSES** .

Correction of Publication

This document corrects two errors and correctly adds the AD as an amendment to [14 CFR 39.13](#). Although no other part of the preamble or regulatory information has been corrected, the FAA is publishing the entire rule in the **Federal Register** .

The effective date of this AD remains October 12, 2022.

Since this action only corrects a freeplay indicator value and adds credit service information, it has no adverse economic impact and imposes no additional burden on any person. Therefore, the FAA has determined that notice and public comment procedures are unnecessary.

List of Subjects in [14 CFR Part 39](#)

- Air transportation
- Aircraft
- Aviation safety
- Incorporation by reference
- Safety

Adoption of the Correction

Accordingly, pursuant to the authority delegated to me by the Administrator, the Federal Aviation Administration amends part 39 of the Federal Aviation Regulations ([14 CFR part 39](#)) by correcting [87 FR 54609](#) (September 7, 2022), beginning at page 54611, column 1, as follows:

PART 39—AIRWORTHINESS DIRECTIVES

1. The authority citation for part 39 continues to read as follows:

Authority: [49 U.S.C. 106\(g\)](#), [40113](#), [44701](#).

[§ 39.13](#) [Corrected]

2. The FAA amends § 39.13 by:

- a. Removing Airworthiness Directive (AD) 2015-12-03, Amendment 39-18176 ([80 FR 34252](#), June 16, 2015); and

b. Adding the following new AD:

2022-14-05 The Boeing Company: Amendment 39-22110; Docket No. FAA-2022-0148; Project Identifier AD-2022-00922-T.

(a) Effective Date

This airworthiness directive (AD) is effective October 12, 2022.

(b) Affected ADs

This AD replaces AD 2015-12-03, Amendment 39-18176 ([80 FR 34252](#), June 16, 2015) (AD 2015-12-03).

(c) Applicability

This AD applies to The Boeing Company airplanes, certificated in any category, identified in paragraphs (c)(1) and (2) of this AD.

(1) All Model 777-200, -200LR, -300, and -300ER series airplanes.

(2) Model 777F airplanes with an original airworthiness certificate or original export certificate of airworthiness issued on or before the effective date of this AD.

(d) Subject

Air Transport Association (ATA) of America Code 27, Flight Controls.

(e) Unsafe Condition

This AD was prompted by the manufacturer's determination that the procedure for the rudder freeplay inspection available at the time did not properly detect excessive freeplay in the rudder control load loop. This AD was also prompted by engineering testing that revealed that the force being applied to the elevator to detect excessive freeplay was insufficient. The FAA is issuing this AD to address excessive wear in the load loop components of the control surfaces, which could lead to excessive freeplay of the control surfaces, flutter, and consequent loss of control of the airplane.

(f) Compliance

Comply with this AD within the compliance times specified, unless already done.

(g) Retained Repetitive Inspections of Elevators, Rudder, and Rudder Tab, With Revised Service Information

This paragraph restates the requirements of paragraph (g) of AD 2015-12-03, with revised service information. For Model 777-200, -200LR, -300, and -300ER series airplanes: At the applicable times specified in tables 1, 2, and 3 of paragraph 1.E., "Compliance," of Boeing Special Attention Service Bulletin 777-27-0062, Revision 2, dated January 27, 2014, or Revision 4, dated July 15, 2021, except as

provided by paragraph (i)(1) of this AD: Inspect the freeplay of the right and left elevators, rudder, and rudder tab by accomplishing all of the actions specified in Parts 1, 3, and 5 of the Accomplishment Instructions of Boeing Special Attention Service Bulletin 777-27-0062, Revision 2, dated January 27, 2014, or Revision 4, dated July 15, 2021, except as provided by paragraphs (i)(2) through (5) of this AD. Repeat the inspections thereafter at the intervals specified in tables 1, 2, and 3 of paragraph 1.E., “Compliance,” of Boeing Special Attention Service Bulletin 777-27-0062, Revision 2, dated January 27, 2014, or Revision 4, dated July 15, 2021. If, during any inspection required by this paragraph, the freeplay exceeds any applicable measurement specified in Part 1, 3, and 5, as applicable, of the Accomplishment Instructions of Boeing Special Attention Service Bulletin 777-27-0062, Revision 2, dated January 27, 2014, or Revision 4, dated July 15, 2021, before further flight, do the applicable corrective actions in accordance with Part 1, 3, and 5 of the Accomplishment Instructions of Boeing Special Attention Service Bulletin 777-27-0062, Revision 2, dated January 27, 2014, or Revision 4, dated July 15, 2021. After the effective date of this AD use only Boeing Special Attention Service Bulletin 777-27-0062, Revision 4, dated July 15, 2021.

(h) Retained Repetitive Lubrication, With Revised Service Information

This paragraph restates the requirements of paragraph (h) of AD 2015-12-03, with revised service information. For Model 777-200, -200LR, -300, and -300ER series airplanes: At the applicable times specified in tables 1, 2, and 3 of paragraph 1.E., “Compliance,” of Boeing Special Attention Service Bulletin 777-27-0062, Revision 2, dated January 27, 2014, or Revision 4, dated July 15, 2021, except as provided by paragraph (i)(1) of this AD: Lubricate the elevator components, rudder components, and rudder tab components, by accomplishing all of the actions specified in Parts 2, 4, and 6 of the Accomplishment Instructions of Boeing Special Attention Service Bulletin 777-27-0062, Revision 2, dated January 27, 2014, or Revision 4, dated July 15, 2021. Repeat the lubrication thereafter at the interval specified in tables 1, 2, and 3 of paragraph 1.E., “Compliance,” of Boeing Special Attention Service Bulletin 777-27-0062, Revision 2, dated January 27, 2014, or Revision 4, dated July 15, 2021. After the effective date of this AD use only Boeing Special Attention Service Bulletin 777-27-0062, Revision 4, dated July 15, 2021.

(i) Exceptions To Service Information Specifications, With Revised Service Information and a New Exception

This paragraph restates the requirements of paragraph (i) of AD 2015-12-03, with revised service information and a new exception, for Model 777-200, -200LR, -300, and -300ER series airplanes.

(1) Where Boeing Special Attention Service Bulletin 777-27-0062, Revision 2, dated January 27, 2014, and Revision 4, dated July 15, 2021, specify a compliance time “after the original issue date on this service bulletin,” this AD requires compliance within the specified compliance time after July 25, 2007 (the effective date of AD 2007-13-05, Amendment 39-15109 ([72 FR 33856](#), June 20, 2007)). After the effective date of this AD, only Boeing Special Attention Service Bulletin 777-27-0062, Revision 4, dated July 15, 2021, may be used.

(2) Where Appendix B, paragraph 1.f., “Freeplay Inspection,” step (8), of Boeing Special Attention Service Bulletin 777-27-0062, Revision 2, dated January 27, 2014, specifies that the center of the pad must be within 1.0 inch (13 millimeters) of the center line of the rib rivets in the rudder tab, this AD

requires that the center of the tab must be within 1.0 inch (25 millimeters) of the center line of the rib rivets in the rudder tab.

(3) Where Appendix C, paragraph 1.e., “Rudder Tab Surface Freeplay-Inspection,” step (2) and step (6), of Boeing Special Attention Service Bulletin 777-27-0062, Revision 2, dated January 27, 2014, specify that the placement of the force gage and pad should be within one inch of the centerline line of the middle rudder power control unit (PCU) rib and at 12 ± 1 inch (305 ± 72 millimeters) forward of the rudder tab trailing edge, this AD requires placement of the force gage and pad within one inch of the centerline line of the middle rudder PCU rib and at 12 ± 1 inch (305 ± 25 millimeters) forward of the rudder tab trailing edge.

(4) Where Appendix C, paragraph 1.e., “Rudder Tab Surface Freeplay-Inspection,” step (3), of Boeing Special Attention Service Bulletin 777-27-0062, Revision 2, dated January 27, 2014, specifies to apply a $30 \pm$ pound (133 ± 14 newton) force, this AD requires applying a 30 ± 3 pound force (133 ± 14 newton) force.

(5) Where the CAUTION note just before step (6) of Appendix A, paragraph 1.f., “Freeplay Inspection,” of Boeing Special Attention Service Bulletin 777-27-0062, Revision 4, dated July 15, 2021, specifies using a pad that distributes the force over an area of 84 square inches (5,420 square centimeters) or more, this AD requires using a pad that distributes the force over an area of 84 square inches (542 square centimeters) or more.

(j) New Maintenance or Inspection Program Revision

For Model 777F airplanes: Within 30 days after the effective date of this AD, revise the 777F elevator freeplay maintenance procedure in the existing maintenance or inspection program, as applicable, by doing the actions specified in paragraphs (j)(1) through (3) of this AD.

(1) Remove the existing hydraulic depressurization PCU test setup procedure step and replace it by incorporating the information specified in figure 1 to paragraph (j) of this AD.

(2) Revise the jack test force used to push the elevator up to 225 ± 10 lb (102.1 ± 4.5 kg).

(3) Revise the elevator freeplay dial indicator limit to 0.34 in. (8.636 mm) or less.



Note 1 to paragraph (j): Refer to AMM task 27-31-09-200-801, dated September 5, 2021, for additional guidance.

(k) No Alternative Actions or Intervals

After the existing maintenance or inspection program has been revised as required by paragraph (j) of this AD, no alternative actions (*e.g.*, inspections) or intervals may be used unless the actions or intervals are approved as an alternative method of compliance (AMOC) in accordance with the procedures specified in paragraph (m) of this AD.

(l) Credit for Previous Actions

(1) This paragraph provides credit for the actions specified in paragraphs (g) and (h) of this AD, if those actions were performed before July 21, 2015 (the effective date of AD 2015-12-03) using the service information specified in paragraphs (l)(1)(i) or (ii) of this AD.

(i) Boeing Special Attention Service Bulletin 777-27-0062, dated July 18, 2006, which was incorporated by reference in AD 2007-13-05, Amendment 39-15109 ([72 FR 33856](#), June 20, 2007).

(ii) Boeing Special Attention Service Bulletin 777-27-0062, Revision 1, dated October 1, 2009, which is not incorporated by reference in this AD.

(2) This paragraph provides credit for the actions specified in paragraphs (g) and (h) of this AD, if those actions were performed before the effective date of this AD using Boeing Special Attention Service Bulletin 777-27-0062, Revision 3, dated October 9, 2015, which is not incorporated by reference in this AD.

(m) Alternative Methods of Compliance (AMOCs)

(1) The Manager, Seattle ACO Branch, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in [14 CFR 39.19](#). In accordance with [14 CFR 39.19](#), send your request to your principal inspector or responsible Flight Standards Office, as appropriate. If sending information directly to the manager of the certification office, send it to the attention of the person identified in paragraph (n)(1) of this AD. Information may be emailed to: 9-ANM-Seattle-ACO-AMOC-Requests@faa.gov.

(2) Before using any approved AMOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager of the responsible Flight Standards Office.

(3) An AMOC that provides an acceptable level of safety may be used for any repair, modification, or alteration required by this AD if it is approved by The Boeing Company Organization Designation Authorization (ODA) that has been authorized by the Manager, Seattle ACO Branch, FAA, to make those findings. To be approved, the repair method, modification deviation, or alteration deviation must meet the certification basis of the airplane, and the approval must specifically refer to this AD.

(4) AMOCs approved previously for the freeplay measurements of the right and left rudder tab required by AD 2015-12-03, are approved as AMOCs for the corresponding provisions of this AD.

(5) AMOCs approved previously for the freeplay measurements of the rudder required by AD 2015-12-03, are approved as AMOCs for the corresponding provisions of this AD.

(6) AMOCs approved previously for the repetitive lubrications required by AD 2015-12-03, are approved as AMOCs for the corresponding provisions of this AD.

(n) Related Information

(1) For more information about this AD, contact Luis Cortez-Muniz, Aerospace Engineer, Airframe Section, FAA, Seattle ACO Branch, 2200 South 216th St., Des Moines, WA 98198; phone: (206) 231-3958; email: Luis.A.Cortez-Muniz@faa.gov.

(2) Service information identified in this AD that is not incorporated by reference is available at the addresses specified in paragraphs (o)(5) and (6) of this AD.

(o) Material Incorporated by Reference

(1) The Director of the Federal Register approved the incorporation by reference (IBR) of the service information listed in this paragraph under [5 U.S.C. 552\(a\)](#) and [1 CFR part 51](#).

(2) You must use this service information as applicable to do the actions required by this AD, unless this AD specifies otherwise.

(3) The following service information was approved for IBR on October 12, 2022 ([87 FR 54609](#), September 7, 2022).

(i) Boeing Special Attention Service Bulletin 777-27-0062, Revision 4, dated July 15, 2021.

(ii) [Reserved]

(4) The following service information was approved for IBR on July 21, 2015 ([80 FR 34252](#), June 16, 2015).

(i) Boeing Special Attention Service Bulletin 777-27-0062, Revision 2, dated January 27, 2014.

(ii) [Reserved]

(5) For service information identified in this AD, contact Boeing Commercial Airplanes, Attention: Contractual & Data Services (C&DS), 2600 Westminister Blvd., MC 110-SK57, Seal Beach, CA 90740-5600; telephone 562-797-1717; website [myboeingfleet.com](#).

(6) You may view this service information at the FAA, Airworthiness Products Section, Operational Safety Branch, 2200 South 216th St., Des Moines, WA. For information on the availability of this material at the FAA, call 206-231-3195.

(7) You may view this service information that is incorporated by reference at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, email fr.inspection@nara.gov, or go to: www.archives.gov/federal-register/cfr/ibr-locations.html.

Issued on September 23, 2022.

Christina Underwood,

Acting Director, Compliance & Airworthiness Division, Aircraft Certification Service.

[[FR Doc. 2022-21021](#) Filed 9-29-22; 8:45 am]

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