



DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2025-2548; Project Identifier AD-2024-00478-T]

RIN 2120-AA64

Airworthiness Directives; The Boeing Company Airplanes

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Notice of proposed rulemaking (NPRM).

SUMMARY: The FAA proposes to adopt a new airworthiness directive (AD) for all The Boeing Company Model 737-600, -700, -700C, -800, -900, and -900ER series airplanes. This proposed AD was prompted by reports of shim installations at certain stub beam to longitudinal floor beam locations that were not installed per specifications, and an evaluation by the design approval holder indicating inadequate baseline inspections for cracking of the stub beam. This proposed AD would require repetitive inspections for any crack of the stub beam straps at certain stations and repairing any crack found. The FAA is proposing this AD to address the unsafe condition on these products.

DATES: The FAA must receive comments on this proposed AD by [INSERT DATE 45 DAYS AFTER DATE OF PUBLICATION IN THE FEDERAL REGISTER].

ADDRESSES: You may send comments, using the procedures found in 14 CFR 11.43 and 11.45, by any of the following methods:

- Federal eRulemaking Portal: Go to [regulations.gov](https://www.regulations.gov). Follow the instructions for submitting comments.
- Fax: 202-493-2251.

- Mail: U.S. Department of Transportation, Docket Operations, M-30, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue SE, Washington, DC 20590.

- Hand Delivery: Deliver to Mail address above between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.

AD Docket: You may examine the AD docket at [regulations.gov](https://www.regulations.gov) under Docket No. FAA-2025-2548; 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 NPRM, any comments received, and other information. The street address for Docket Operations is listed above.

Material Incorporated by Reference:

- For Boeing material identified in this proposed 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.

- You may view this material 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](https://www.regulations.gov) under Docket No. FAA-2025-2548.

FOR FURTHER INFORMATION CONTACT: Luis Cortez-Muniz, Aviation Safety Engineer, FAA, 2200 South 216th St., Des Moines, WA 98198; phone: 206-231-3958; email: luis.a.cortez-muniz@faa.gov.

SUPPLEMENTARY INFORMATION:

Comments Invited

The FAA invites you to send any written relevant data, views, or arguments about this proposal. Send your comments to an address listed under the ADDRESSES section.

Include “Docket No. FAA-2025-2548; Project Identifier AD-2024-00478-T” at the beginning of your comments. The most helpful comments reference a specific portion of the proposal, explain the reason for any recommended change, and include supporting data. The FAA will consider all comments received by the closing date and may amend this proposal because of those comments.

Except for Confidential Business Information (CBI) as described in the following paragraph, and other information as described in 14 CFR 11.35, the FAA will post all comments received, without change, to regulations.gov, including any personal information you provide. The agency will also post a report summarizing each substantive verbal contact received about this NPRM.

Confidential Business Information

CBI is commercial or financial information that is both customarily and actually treated as private by its owner. Under the Freedom of Information Act (FOIA) (5 U.S.C. 552), CBI is exempt from public disclosure. If your comments responsive to this NPRM contain commercial or financial information that is customarily treated as private, that you actually treat as private, and that is relevant or responsive to this NPRM, it is important that you clearly designate the submitted comments as CBI. Please mark each page of your submission containing CBI as “PROPIN.” The FAA will treat such marked submissions as confidential under the FOIA, and they will not be placed in the public docket of this NPRM. Submissions containing CBI should be sent to Luis Cortez-Muniz, Aviation Safety Engineer, FAA, 2200 South 216th St., Des Moines, WA 98198; phone: 206-231-3958; email: luis.a.cortez-muniz@faa.gov. Any commentary that the FAA receives that is not specifically designated as CBI will be placed in the public docket for this rulemaking.

Background

The FAA has received reports of shim installations at the station (STA) 559 to STA 639 stub beam to buttock line (BL) 45 longitudinal floor beam locations that were not installed per specifications, and an evaluation by the design approval holder indicating inadequate baseline inspections for cracking of the stub beam. The FAA is issuing this AD to address potential cracking in the stub beam strap. The unsafe condition, if not addressed, could result in undetected cracks in the stub beam strap that may grow in length and sever the strap, which could adversely affect the structural integrity of the airplane.

FAA's Determination

The FAA is issuing this NPRM after determining that the unsafe condition described previously is likely to exist or develop on other products of the same type design.

Material Incorporated by Reference under 1 CFR Part 51

The FAA reviewed Boeing Alert Requirements Bulletin 737-53A1404 RB, Revision 1, dated November 29, 2023. This material specifies procedures for repetitive ultrasonic inspections for any crack of the stub beam straps at STA 578 and STA 597, or STA 578 and STA 601, as applicable. This material specifies procedures for repetitive ultrasonic and open hole eddy current inspections for any crack of the stub beam straps at STA 616 and STA 639. This material also specifies repairing any crack found.

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

Proposed AD Requirements in this NPRM

This proposed AD would require accomplishing the actions specified in the material already described except as discussed under "Differences Between this Proposed

AD and the Referenced Material,” and except for any differences identified as exceptions in the regulatory text of this proposed AD. For information on the procedures and compliance times, see this material at regulations.gov under Docket No. FAA-2025-2548.

Differences Between this Proposed AD and the Referenced Material

Boeing received reports of several crack findings from operators after accomplishment of Boeing Alert Requirements Bulletin 737-53A1404 RB, Revision 1, dated November 29, 2023. The crack findings were discovered prior to the inspection threshold of 34,000 total flight cycles, which is specified in the compliance tables in Boeing Alert Requirements Bulletin 737-53A1404 RB, Revision 1, dated November 29, 2023. Further analysis by Boeing determined that the existing compliance times in Boeing Alert Requirements Bulletin 737-53A1404 RB, Revision 1, dated November 29, 2023, are inadequate and would need to be reduced. Following coordination with Boeing, the FAA is proposing to require reduced compliance times to address the unsafe condition and maintain safety in the fleet.

Additionally, Boeing Alert Requirements Bulletin 737-53A1404 RB, Revision 1, dated November 29, 2023, specifies reduced compliance times for airplanes on which Boeing Business Jet (BBJ) Lower Cabin Altitude Supplemental Type Certificate (STC) ST01697SE has been incorporated. This proposed AD would require using those reduced compliance times, but the reduction would be applied to the reduced compliance times specified in paragraphs (g)(1) through (3) of this AD, not those specified in Boeing Alert Requirements Bulletin 737-53A1404 RB, Revision 1, dated November 29, 2023.

Costs of Compliance

The FAA estimates that this AD, if adopted as proposed, would affect 1,981 airplanes of U.S. registry. The FAA estimates the following costs to comply with this proposed AD:

Estimated costs

Action	Labor cost	Parts cost	Cost per product	Cost on U.S. operators
Inspections	Up to 166 work-hours X \$85 per hour = \$14,110 per inspection cycle	\$0	Up to \$14,110 per inspection cycle	Up to \$27,951,910 per inspection cycle

The FAA has received no definitive data on which to base the cost estimates for the repairs specified in this proposed AD.

The FAA has included all known costs in its cost estimate. According to the manufacturer, however, some or all of the costs of this proposed AD may be covered under warranty, thereby reducing the cost impact on affected operators.

Authority for this Rulemaking

Title 49 of the United States Code specifies the FAA's authority to issue rules on aviation safety. Subtitle I, section 106, describes the authority of the FAA Administrator. Subtitle VII: Aviation Programs, describes in more detail the scope of the Agency's authority.

The FAA is issuing this rulemaking under the authority described in Subtitle VII, Part A, Subpart III, Section 44701: General requirements. Under that section, Congress charges the FAA with promoting safe flight of civil aircraft in air commerce by prescribing regulations for practices, methods, and procedures the Administrator finds necessary for safety in air commerce. This regulation is within the scope of that authority because it addresses an unsafe condition that is likely to exist or develop on products identified in this rulemaking action.

Regulatory Findings

The FAA determined that this proposed AD would not have federalism implications under Executive Order 13132. This proposed AD would not have a substantial direct effect on the States, on the relationship between the national

government and the States, or on the distribution of power and responsibilities among the various levels of government.

For the reasons discussed above, I certify this proposed regulation:

(1) Is not a “significant regulatory action” under Executive Order 12866,

(2) Would not affect intrastate aviation in Alaska, and

(3) Would not have a significant economic impact, positive or negative, on a

substantial number of small entities under the criteria of the Regulatory Flexibility Act.

List of Subjects in 14 CFR Part 39

Air transportation, Aircraft, Aviation safety, Incorporation by reference, Safety.

The Proposed Amendment

Accordingly, under the authority delegated to me by the Administrator, the FAA proposes to amend 14 CFR part 39 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 [Amended]

2. The FAA amends § 39.13 by adding the following new airworthiness directive:

The Boeing Company: Docket No. FAA-2025-2548; Project Identifier AD-2024-00478-T.

(a) Comments Due Date

The FAA must receive comments on this airworthiness directive (AD) by [INSERT DATE 45 DAYS AFTER DATE OF PUBLICATION IN THE FEDERAL REGISTER].

(b) Affected ADs

None.

(c) Applicability

This AD applies to all The Boeing Company Model 737-600, -700, -700C, -800, -900, and -900ER series airplanes, certificated in any category.

(d) Subject

Air Transport Association (ATA) of America Code 53, Fuselage.

(e) Unsafe Condition

This AD was prompted by reports of shim installations at the station (STA) 559 to STA 639 stub beam to buttock line (BL) 45 longitudinal floor beam locations that were not installed per specifications, and an evaluation by the design approval holder indicating inadequate baseline inspections for cracking of the stub beam. The FAA is issuing this AD to address potential cracking in the stub beam strap. The unsafe condition, if not addressed, could result in undetected cracks in the stub beam strap that may grow in length and sever the strap, which could adversely affect the structural integrity of the airplane.

(f) Compliance

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

(g) Required Inspections

At the applicable time specified in paragraphs (g)(1) through (3) of this AD, except as required by paragraph (i) of this AD, do all applicable inspections identified in, and in accordance with, the Accomplishment Instructions of Boeing Alert Requirements Bulletin 737-53A1404 RB, Revision 1, dated November 29, 2023. If no cracking is found, repeat the inspections thereafter at intervals not to exceed 4,000 flight cycles.

Note 1 to paragraph (g): Guidance for accomplishing the actions required by this AD can be found in Boeing Alert Service Bulletin 737-53A1404, Revision 1, dated November 29, 2023, which is referred to in Boeing Alert Requirements Bulletin 737-53A1404 RB, Revision 1, dated November 29, 2023.

(1) For airplanes that have accumulated fewer than 30,000 total flight cycles as of the effective date of this AD: Before 22,000 total flight cycles, or within 4,000 flight cycles after the effective date of this AD, whichever occurs later.

(2) For airplanes that have accumulated 30,000 total flight cycles or greater but fewer than 40,000 total flight cycles as of the effective date of this AD: Within 2,000 flight cycles after the effective date of this AD.

(3) For airplanes that have accumulated greater than 40,000 total flight cycles as of the effective date of this AD: Within 1,000 flight cycles after the effective date of this AD.

(h) Corrective Actions

If any cracking is found during any inspection required by paragraph (g) of this AD, before further flight, repair using a method approved in accordance with the procedures specified in paragraph (j) of this AD.

(i) Compliance Time Exception for Certain Airplanes

For airplanes on which Boeing Business Jet (BBJ) Lower Cabin Altitude Supplemental Type Certificate (STC) ST01697SE has been incorporated: The flight cycle related compliance times are different from those specified in paragraph (g) of this AD. All initial compliance times (thresholds) specified in flight cycles must be reduced to half of those specified in paragraphs (g)(1) through (3) of this AD. All repeat interval compliance times specified in flight cycles must be reduced to one-quarter of those specified in paragraph (g) of this AD.

(j) Alternative Methods of Compliance (AMOCs)

(1) The Manager, AIR-520, Continued Operational Safety 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 (k) of this AD. Information may be emailed to: AMOC@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, AIR-520, Continued Operational Safety 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.

(k) Related Information

(1) For more information about this AD, contact Luis Cortez-Muniz, Aviation Safety Engineer, FAA, 2200 South 216th St., Des Moines, WA 98198; phone: 206-231-3958; email: luis.a.cortez-muniz@faa.gov.

(2) Material identified in this AD that is not incorporated by reference is available at the address specified in paragraph (l)(3) this AD.

(l) Material Incorporated by Reference

(1) The Director of the Federal Register approved the incorporation by reference of the material listed in this paragraph under 5 U.S.C. 552(a) and 1 CFR part 51.

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

(i) Boeing Alert Requirements Bulletin 737-53A1404 RB, Revision 1, dated November 29, 2023.

(ii) [Reserved]

(3) For the Boeing material 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.

(4) You may view this material 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.

(5) You may view this material at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, visit www.archives.gov/federal-register/cfr/ibr-locations or email fr.inspection@nara.gov.

Issued on September 16, 2025.

Lona C. Saccomando,
Acting Deputy Director, Integrated Certificate Management Division,
Aircraft Certification Service.
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