



## 適航指令發布單

### Airworthiness Directive Issuance Form

民航局 AD 編號 AD number	CAA-2021-12-005	發布日期 Date issued	2021/12/14
適用之航空產品 Applied to (models, serial numbers or part numbers, as applicable)	Model 787-8 and 787-9 airplanes, certificated in any category, as identified in Boeing Alert Requirements Bulletins B787-81205-SB530077-00 RB and B787-81205-SB530078-00 RB, both Issue 001, both dated September 8, 2020.		
主旨摘要	This AD requires repetitive inspections for cracking of certain areas of the aft wheel well bulkhead body chord and AWWB side fitting and failsafe straps, and repair of any cracking found.		
民航局 CAA <input type="checkbox"/> 本國產品 Native products <input type="checkbox"/> 其他個案 Other	設計國民航主管機構 Original Authorities <div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <input checked="" type="checkbox"/> FAA  <input type="checkbox"/> EASA  <input type="checkbox"/> Brazil  <input type="checkbox"/> Transport Canada Civil Aviation  <input type="checkbox"/> DGAC               </div> <div style="width: 48%;"> <input type="checkbox"/> Germany LBA  <input type="checkbox"/> CAA-NL  <input type="checkbox"/> UK CAA  <input type="checkbox"/> Japan CAB  <input type="checkbox"/> CAA of Israel  <input type="checkbox"/> Other _____               </div> </div>		
	設計國 AD 編號 Original AD number	2021-23-21	
	1. 直接採用原 AD 之內容?(Is the original AD directly adopted?) <input checked="" type="checkbox"/> 是(Yes) <input type="checkbox"/> 否(No) _ a. 生效日期另訂為(Re-specify the effective date as) : _____ b. 執行時限另訂為(Re-specify the compliance time or period as) : _____ 2. 使用人是否需要將 AD 執行結果向民航局提出報告?(Do Users need to report the status of compliance to the CAA?) <input type="checkbox"/> 是(Yes) <input checked="" type="checkbox"/> 否(No)		
備註 Note	ATA 53. Ref. Boeing Alert Requirements Bulletin B787-81205-SB530077-00 RB, Issue 001, dated September 8, 2020. and B787-81205-SB530078-00 RB, Issue 001, dated September 8, 2020.		
註： 1. AD 內容後附。 2. 航空器產品使用人得向民航局提出豁免、替代符合方法、執行時限之展延之申請。 3. 如有任何問題，請聯絡交通部民用航空局初始適航科。Tel：(02)2349-6331~3, Fax：(02)2545-8464, e-mail： <a href="mailto:adcaa@mail.caa.gov.tw">adcaa@mail.caa.gov.tw</a> Note： 1. The AD text is enclosed. 2. Exemption, an alternative method of compliance or adjustment of the compliance time may be proposed to the CAA for approval. 3. For further information, please contact Civil Aeronautics Administration on Tel：(02)2349-6331~3, Fax：(02)2545-8464, e-mail： <a href="mailto:adcaa@mail.caa.gov.tw">adcaa@mail.caa.gov.tw</a>			

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[Rules and Regulations]

[Pages 68910-68912]

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[FR Doc No: 2021-26392]

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## **DEPARTMENT OF TRANSPORTATION**

### **Federal Aviation Administration**

#### **14 CFR Part 39**

**[Docket No. FAA-2021-0338; Project Identifier AD-2020-01423-T; Amendment 39-21820; AD 2021-23-21]**

**RIN 2120-AA64**

### **Airworthiness Directives; The Boeing Company Airplanes**

**AGENCY:** Federal Aviation Administration (FAA), DOT.

**ACTION:** Final rule.

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**SUMMARY:** The FAA is adopting a new airworthiness directive (AD) for certain The Boeing Company Model 787-8 and 787-9 airplanes. This AD was prompted by reports that shimming requirements were not met during the assembly of certain structural joints, which can result in reduced fatigue thresholds and cracking of the affected structural joints. This AD requires repetitive inspections for cracking of certain areas of the aft wheel well bulkhead (AWWB) body chord and AWWB side fitting and failsafe straps, and repair of any cracking found. The FAA is issuing this AD to address the unsafe condition on these products.

**DATES:** This AD is effective January 10, 2022.

The Director of the Federal Register approved the incorporation by reference of certain publications listed in this AD as of January 10, 2022.

**ADDRESSES:** 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; internet <https://www.myboeingfleet.com>. 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. It is also available at <https://www.regulations.gov> by searching for and locating Docket No. FAA-2021-0338.

### **Examining the AD Docket**

You may examine the AD docket at <https://www.regulations.gov> by searching for and locating Docket No. FAA-2021-0338; 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 address for Docket Operations is U.S. Department of Transportation, Docket Operations, M-30, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue SE, Washington, DC 20590.

**FOR FURTHER INFORMATION CONTACT:** Greg Rutar, Aerospace Engineer, Airframe Section, FAA, Seattle ACO Branch, 2200 South 216th St., Des Moines, WA 98198; phone and fax: 206-231-3529; email: Greg.Rutar@faa.gov.

## **SUPPLEMENTARY INFORMATION:**

### **Background**

The FAA issued a notice of proposed rulemaking (NPRM) to amend 14 CFR part 39 by adding an AD that would apply to certain The Boeing Company Model 787-8 and 787-9 airplanes. The NPRM published in the Federal Register on May 10, 2021 (86 FR 24778). The NPRM was prompted by reports that shimming requirements were not met during the assembly of certain structural joints, which can result in reduced fatigue thresholds and cracking of the affected structural joints. In the NPRM, the FAA proposed to require repetitive inspections for cracking of certain areas of the AWWB body chord and AWWB side fitting and failsafe straps, and repair of any cracking found. The FAA is issuing this AD to address undetected fatigue cracking, which could weaken primary structure so it cannot sustain limit load, and could result in reduced structural integrity of the airplane.

### **Discussion of Final Airworthiness Directive**

#### **Comments**

The FAA received a comment from United Airlines who supported the NPRM without change.

The FAA received additional comments from two commenters, including Avianca Airlines (AVA) and Boeing. The following presents the comments received on the NPRM and the FAA's response to each comment.

#### **Request To Use Alternative Repair Method**

AVA asked that the FAA change the following language used in paragraph (h)(3) of the proposed AD “This AD requires doing the repair using a method approved in accordance with the procedures specified in paragraph (i) of this AD.” AVA stated that this means submitting a request for an alternative method of compliance (AMOC) is required in accordance with paragraph (i)(3) of the proposed AD. AVA added that the proposed repair is based on the time delay required to obtain an AMOC letter, which affects the operational return to service of the affected aircraft, and noted that a Form 8100-9 is already an approved document that certifies compliance with the airworthiness standard. AVA proposed that only an 8100-9 approval form be required for doing a repair after contacting Boeing.

The FAA does not agree with the commenter's request. An FAA Form 8100-9, which is both a repair data approval and AMOC approval, may be issued by the Boeing Company Organization Designation Authorization (ODA), provided it has been authorized by the Manager, Seattle ACO Branch, FAA, as required by paragraph (i)(3) of this AD. Therefore, the FAA has not changed this AD in this regard.

#### **Request To Use Later Revision of the Service Information**

AVA asked that the FAA include a paragraph in the proposed AD that approves any further revision or issue of Boeing Alert Requirements Bulletins B787-81205-SB530077-00 RB and B787-

81205-SB530078-00 RB, both Issue 001, both dated September 8, 2020, for compliance with the proposed AD.

The FAA does not agree with the commenter's request. The FAA may not in an AD refer to any document that does not yet exist. In general terms, the FAA is required by Office of the Federal Register (OFR) regulations for approval of materials incorporated by reference, as specified in 1 CFR 51.1(f), to either publish the service document contents as part of the actual AD language; or submit the service document to the OFR for approval as referenced material, in which case the FAA may only refer to such material in the text of an AD. The AD may refer to the service document only if the OFR approved it for incorporation by reference. See 1 CFR part 51.

To allow operators to use later revisions of the referenced document (issued after publication of the AD), either the FAA must revise the AD to reference specific later revisions, or operators must request approval to use later revisions as an alternative method of compliance with this AD under the provisions of paragraph (i) of this AD.

### **Request To Clarify Applicability**

Boeing asked that the applicability specified in paragraph (c) of the proposed AD be clarified, as follows: “This AD applies to The Boeing Company Model 787-8 and 787-9 airplanes, certificated in any category, as identified in Boeing Alert Requirements Bulletins B787-81205-SB530077-00 RB and B787-81205-SB530078-00 RB, both Issue 001, both dated September 8, 2020.” Boeing stated that, although the applicability is the same in each bulletin, identifying both will avoid confusion for operators.

The FAA agrees with the commenter for the reason provided. Paragraph (c) of this AD only identifies Boeing Alert Requirements Bulletin B787-81205-SB530077-00 RB, Issue 001, dated September 8, 2020; therefore, the FAA has changed paragraph (c) of this AD to identify both bulletins, as requested by the commenter.

### **Conclusion**

The FAA reviewed the relevant data, considered any comments received, and determined that air safety requires adopting this AD as proposed. Except for minor editorial changes, and any other changes described previously, this AD is adopted as proposed in the NPRM. None of the changes will increase the economic burden on any operator.

### **Related Service Information Under 1 CFR Part 51**

The FAA reviewed Boeing Alert Requirements Bulletin B787-81205-SB530077-00 RB, Issue 001, dated September 8, 2020. The service information describes procedures for repetitive high frequency eddy current (HFEC) inspections for cracking of the forward edge of the AWWB side fitting and failsafe strap at station (STA) 1209 on the left and right side, and the AWWB side fitting outer chord surface and failsafe strap, and repair of any cracking found.

The FAA reviewed Boeing Alert Requirements Bulletin B787-81205-SB530078-00 RB, Issue 001, dated September 8, 2020. The service information describes procedures for repetitive HFEC inspections for cracking of the forward edge of the horizontal flange of the AWWB body chord and around all the fastener heads and vertical beam clips common to the AWWB body chord horizontal flange.

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 the ADDRESSES section.

## Costs of Compliance

The FAA estimates that this AD affects 79 airplanes of U.S. registry. The FAA estimates the following costs to comply with this AD:

Estimated Costs for Required Actions				
Action	Labor cost	Parts cost	Cost per product	Cost on U.S. operators
Repetitive inspections	16 work-hours × \$85 per hour = \$1,360 per inspection cycle	\$0	\$1,360 per inspection cycle	\$107,440 per inspection cycle

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

## 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

This AD will not have federalism implications under Executive Order 13132. This AD will 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 that this AD:

- (1) Is not a “significant regulatory action” under Executive Order 12866,
- (2) Will not affect intrastate aviation in Alaska, and
- (3) Will 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 Amendment

Accordingly, under the authority delegated to me by the Administrator, the FAA amends 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:



**FAA**  
**Aviation Safety**

## **AIRWORTHINESS DIRECTIVE**

[www.faa.gov/aircraft/safety/alerts/](http://www.faa.gov/aircraft/safety/alerts/)  
[www.gpoaccess.gov/fr/advanced.html](http://www.gpoaccess.gov/fr/advanced.html)

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**2021-23-21 The Boeing Company:** Amendment 39-21820; Docket No. FAA-2021-0338; Project Identifier AD-2020-01423-T.

### **(a) Effective Date**

This airworthiness directive (AD) is effective January 10, 2022.

### **(b) Affected ADs**

None.

### **(c) Applicability**

This AD applies to The Boeing Company Model 787-8 and 787-9 airplanes, certificated in any category, as identified in Boeing Alert Requirements Bulletins B787-81205-SB530077-00 RB and B787-81205-SB530078-00 RB, both Issue 001, both dated September 8, 2020.

### **(d) Subject**

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

### **(e) Unsafe Condition**

This AD was prompted by reports that shimming requirements were not met during the assembly of certain aft wheel well bulkhead (AWWB) structural joints, which can result in reduced fatigue thresholds and cracking of the affected structural joints. The FAA is issuing this AD to address undetected fatigue cracking, which could weaken primary structure so it cannot sustain limit load, and could result in reduced structural integrity of the airplane.

### **(f) Compliance**

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

### **(g) Required Actions**

Except as specified by paragraph (h) of this AD: At the applicable times specified in the "Compliance" paragraph of Boeing Alert Requirements Bulletins B787-81205-SB530077-00 RB and B787-81205-SB530078-00 RB, both Issue 001, both dated September 8, 2020, do all applicable actions identified in, and in accordance with, the Accomplishment Instructions of Boeing Alert Requirements Bulletins B787-81205-SB530077-00 RB and B787-81205-SB530078-00 RB, both Issue 001, both dated September 8, 2020.

Note 1 to paragraph (g): Guidance for accomplishing the actions required by this AD can be found in Boeing Alert Service Bulletins B787-81205-SB530077-00 and B787-81205-SB530078-00, both Issue 001, both dated September 8, 2020, which are referred to in Boeing Alert Requirements

Bulletins B787-81205-SB530077-00 RB and B787-81205-SB530078-00 RB, both Issue 001, both dated September 8, 2020.

#### **(h) Exceptions to Service Information Specifications**

(1) Where Boeing Alert Requirements Bulletin B787-81205-SB530077-00 RB, Issue 001, dated September 8, 2020, uses the phrase “the issue 001 date of the Requirements Bulletin B787-81205-SB530077-00 RB,” this AD requires using “the effective date of this AD.”

(2) Where Boeing Alert Requirements Bulletin B787-81205-SB530078-00 RB, Issue 001, dated September 8, 2020, uses the phrase “the issue 001 date of the Requirements Bulletin B787-81205-SB530078-00 RB,” this AD requires using “the effective date of this AD.”

(3) Where Boeing Alert Requirements Bulletins B787-81205-SB530077-00 RB and B787-81205-SB530078-00 RB, both Issue 001, both dated September 8, 2020, specify contacting Boeing for repair instructions: This AD requires doing the repair using a method approved in accordance with the procedures specified in paragraph (i) of this AD.

#### **(i) 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 (j) 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.

#### **(j) Related Information**

For more information about this AD, contact Greg Rutar, Aerospace Engineer, Airframe Section, FAA, Seattle ACO Branch, 2200 South 216th St., Des Moines, WA 98198; phone and fax: 206-231-3529; email: Greg.Rutar@faa.gov.

#### **(k) 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 the AD specifies otherwise.

(i) Boeing Alert Requirements Bulletin B787-81205-SB530077-00 RB, Issue 001, dated September 8, 2020.

(ii) Boeing Alert Requirements Bulletin B787-81205-SB530078-00 RB, Issue 001, dated September 8, 2020.

(3) 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; internet <https://www.myboeingfleet.com>.



(4) 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.

(5) 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, [fr.inspection@nara.gov](mailto:fr.inspection@nara.gov), or go to: <https://www.archives.gov/federal-register/cfr/ibr-locations.html>.

Issued on November 5, 2021.

Lance T. Gant,

Director, Compliance & Airworthiness Division, Aircraft Certification Service.

[FR Doc. 2021-26392 Filed 12-3-21; 8:45 am]