

**DEPARTMENT OF TRANSPORTATION****Federal Aviation Administration****14 CFR Part 39**

[Docket No. 92-ANE-15-AD; Amendment 39-13916; AD 2004-26-04]

RIN 2120-AA64

**Airworthiness Directives; Pratt & Whitney JT8D-200 Series Turbofan Engines**

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

**ACTION:** Final rule.

**SUMMARY:** The FAA is superseding existing airworthiness directive (AD) 99-22-14 for Pratt & Whitney (PW) JT8D-200 series turbofan engines. That AD currently requires removing low pressure turbine (LPT)-to-exhaust case bolts and nuts and replacement with improved LPT-to-exhaust case bolts and nuts on JT8D-209, -217, -217A, -217C, and -219 engines. That AD also requires installation of improved high pressure turbine (HPT) containment hardware on JT8D-217C, and -219 engines. This AD requires installation of improved HPT containment hardware on JT8D-209, -217, -217A, -217C, and -219 engines. This AD results from four reports of uncontained HPT failures of JT8D-200 series engines, since AD 99-22-14 was issued. We are issuing this AD to prevent uncontained HPT events resulting from HPT shaft fractures.

**DATES:** This AD becomes effective February 9, 2005. The Director of the Federal Register approved the incorporation by reference of certain publications listed in the regulations as of February 9, 2005. The Director of the Federal Register previously approved the incorporation by reference of certain other publications as listed in the regulations as of December 28, 1999 (64 FR 58328, October 29, 1999).

**ADDRESSES:** You can get the service information identified in this AD from Pratt & Whitney, 400 Main St., East Hartford, CT 06108; telephone (860) 565-7700; fax (860) 565-1605.

You may examine the AD docket at the FAA, New England Region, Office of the Regional Counsel, 12 New England Executive Park, Burlington, MA. You may examine the service information, at the FAA, New England Region, Office of the Regional Counsel, 12 New England Executive Park, Burlington, MA; or at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: <http://www.archives.gov/>

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ibr\_locations.html.*

**FOR FURTHER INFORMATION CONTACT:**

Keith Lardie, Aerospace Engineer, Engine Certification Office, FAA, Engine and Propeller Directorate, 12 New England Executive Park, Burlington, MA 01803-5299; telephone (781) 238-7189; fax (781) 238-7199.

**SUPPLEMENTARY INFORMATION:**

A proposal to amend part 39 of the Federal Aviation Regulations (14 CFR part 39) was published in the **Federal Register** on July 15, 2004 (69 FR 42356). That action proposed to require installation of improved HPT containment hardware on JT8D-209, -217, -217A, -217C, and -219 engines in accordance with Pratt & Whitney Alert Service Bulletin (ASB) No. JT8D A6346, dated September 10, 1998, or Revision 1, dated April 23, 1999, or Revision 2, dated December 1, 1999, or Revision 3, dated May 21, 2004. We published the proposed AD in the **Federal Register** on July 15, 2004 (69 FR 42356).

**Examining the AD Docket**

You may examine the AD Docket (including any comments and service information), by appointment, between 8 a.m. and 4:30 p.m., Monday through Friday, except Federal holidays. See **ADDRESSES** for the location.

**Comments**

We provided the public the opportunity to participate in the development of this AD. We have considered the one comment received. The commenter supports the proposal.

**Conclusion**

We have carefully reviewed the available data, including the comment received, and determined that air safety and the public interest require adopting the AD as proposed.

**Costs of Compliance**

There are about 2,345 PW JT8D-200 series turbofan engines of the affected design in the worldwide fleet. We estimate that 1,143 engines are installed on airplanes of U.S. registry, and that 280 engines will be affected by this AD. We estimate that 80% of the -217C and -219 engines already have the improved HPT containment hardware installed. We also estimate that no additional labor costs will be incurred when these parts are installed during engine shop visit. Required parts will cost about \$19,991 per engine. Based on these figures, we estimate the total cost of the AD to U.S. operators to be \$5,597,480.

**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.

We are 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**

We have determined that 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) Is not a "significant rule" under DOT Regulatory Policies and Procedures (44 FR 11034, February 26, 1979); 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.

We prepared a summary of the costs to comply with this AD and placed it in the AD Docket. You may get a copy of this summary by sending a request to us at the address listed under **ADDRESSES**. Include "AD Docket No. 92-ANE-15-AD" in your request.

**List of Subjects in 14 CFR Part 39**

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

**Adoption of the Amendment**

■ Accordingly, under the authority delegated to me by the Administrator, the Federal Aviation Administration 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 removing Amendment 39–11392 (64 FR 58328, October 29, 1999) and by adding a new airworthiness directive (AD), Amendment 39–13916, to read as follows:

**2004–26–04 Pratt & Whitney:** Amendment 39–13916. Docket No. 92–ANE–15–AD. Supersedes AD 99–22–14, Amendment 39–11392.

**Effective Date**

(a) This AD becomes effective February 9, 2005.

**Affected ADs**

(b) This AD supersedes AD 99–22–14, Amendment 39–11392.

**Applicability**

(c) This AD applies to Pratt & Whitney (PW) JT8D–209, –217, –217A, –217C, and –219 turbofan engines. These engines are installed on, but not limited to, Boeing 727 series and McDonnell Douglas MD–80 series airplanes.

**Unsafe Condition**

(d) This AD results from four reports of uncontained high pressure turbine (HPT) failures of JT8D–200 series engines, since AD

99–22–14 was issued. We are issuing this AD to prevent uncontained HPT events resulting from HPT shaft fractures.

**Compliance**

(e) You are responsible for having the actions required by this AD performed within the compliance times specified unless the actions have already been done.

(f) Install the improved HPT containment hardware. Use the applicable compliance schedule in Table 1 of this AD, and paragraphs 1. through 3.G. of the Accomplishment Instructions of PW Alert Service Bulletin (ASB) No. JT8D A6346, dated September 10, 1998, or Revision 1, dated April 23, 1999, or Revision 2, dated December 1, 1999, or Revision 3, dated May 21, 2004.

**TABLE 1.—COMPLIANCE SCHEDULE**

For engine models:	Install improved HPT containment hardware:
JT8D–217C and –219 .....	At the next engine shop visit after the effective date of this AD, but no later than December 31, 2004.
JT8D–209, –217, and –217A .....	At the next engine shop visit after the effective date of this AD, but no later than December 31, 2007.

**Definition**

(g) The purpose of this AD, an engine shop visit is defined as engine maintenance that involves the separation of the J and K flanges.

**Alternative Methods of Compliance**

(h) The Manager, Engine Certification Office, has the authority to approve alternative methods of compliance for this AD if requested using the procedures found in 14 CFR 39.19.

**Material Incorporated by Reference**

(i) You must use the Pratt & Whitney Alert Service Bulletins listed in Table 2 of this AD to perform the installations required by this AD. The Director of the Federal Register approved the incorporation by reference of ASB No. A6346, Revision 2 and Revision 3, listed in Table 2 of this AD in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. The Director of the Federal Register previously approved the incorporation by reference of ASB No. JT8D A6346, dated September 10, 1998, and ASB No. JT8D A6346 Revision 1, dated April 23, 1999, as of December 28,

1999 (64 FR 58328, October 29, 1999). You can get copies from Pratt & Whitney, 400 Main St., East Hartford, CT 06108; telephone (860) 565–7700; fax (860) 565–1605. You can review copies at the FAA, New England Region, Office of the Regional Counsel, 12 New England Executive Park, Burlington, MA; or at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202–741–6030, or go to: [http://www.archives.gov/federal\\_register/code\\_of\\_federal\\_regulations/ibr\\_locations.html](http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html). Table 2 follows:

**TABLE 2.—INCORPORATION BY REFERENCE**

Alert service Bulletin No.	Page number(s) shown on the page	Revision level shown on the page	Date shown on the page
JT8D A6346 .....	ALL .....	Original .....	September 10, 1998.
Total Pages: 23			
JT8D A6346 .....	1,2 .....	1 .....	April 23, 1999.
	3 .....	Original .....	September 10, 1998.
	4 .....	1 .....	April 23, 1999.
	5,6 .....	Original .....	September 10, 1998.
	7–25 .....	1 .....	April 23, 1999.
Total Pages: 25			
JT8D A6346 .....	1,2 .....	2 .....	December 1, 1999.
	3 .....	Original .....	September 10, 1998.
	4,5 .....	2 .....	December 1, 1999.
	6 .....	Original .....	September 10, 1998.
	7 .....	1 .....	April 23, 1999.
	8 .....	2 .....	December 1, 1999.
	9–13 .....	1 .....	April 23, 1999.
	14 .....	2 .....	December 1, 1999.
	15–21 .....	1 .....	April 23, 1999.
	22 .....	2 .....	December 1, 1999.
	23–25 .....	1 .....	April 23, 1999.
Total Pages: 25			
JT8D A6346 .....	ALL .....	3 .....	May 21, 2004.
Total Pages: 22			

**Related Information**

(j) None.

Issued in Burlington, Massachusetts, on December 20, 2004.

**Francis A. Favara,**

*Acting Manager, Engine and Propeller Directorate, Aircraft Certification Service.*

[FR Doc. 05-84 Filed 1-4-05; 8:45 am]

BILLING CODE 4910-13-P

**DEPARTMENT OF TRANSPORTATION****Federal Aviation Administration****14 CFR Part 39**

[Docket No. FAA-2004-19200; Directorate Identifier 2003-NM-195-AD; Amendment 39-13927; AD 2005-01-03]

RIN 2120-AA64

**Airworthiness Directives; Boeing Model 747-100, -100B, -100B SUD, -200B, -200C, -200F, and -300 Series Airplanes; and Model 747SP and 747SR Series Airplanes; Equipped With Pratt & Whitney JT9D-3 and -7 (Except -70) Series Engines or General Electric CF6-50 Series Engines With Modified JT9D-7 Inboard Struts**

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

**ACTION:** Final rule.

**SUMMARY:** The FAA is adopting a new airworthiness directive (AD) for certain Boeing airplanes listed above. This AD requires repetitive detailed inspections of the midspar web of the inboard and/or outboard struts for cracking, disbonding, or buckling; repetitive detailed inspections of the midspar stiffeners for any crack or fracture; related investigative actions; and corrective actions, if necessary. This AD is prompted by reports of cracking in the midspar web. We are issuing this AD to detect and correct cracking in the midspar assembly, which could result in the loss of the midspar assembly load path, and could, combined with the loss of the nacelle station 180 bulkhead load path, lead to the separation of the engine from the airplane.

**DATES:** This AD becomes effective February 9, 2005.

The incorporation by reference of a certain publication listed in the AD is approved by the Director of the Federal Register as of February 9, 2005.

**ADDRESSES:** For service information identified in this AD, contact Boeing Commercial Airplanes, P.O. Box 3707, Seattle, Washington 98124-2207. You can examine this information at the National Archives and Records Administration (NARA). For

information on the availability of this material at NARA, call (202) 741-6030, or go to: [http://www.archives.gov/federal\\_register/code\\_of\\_federal\\_regulations/ibr\\_locations.html](http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html).

You can examine the contents of this AD docket on the Internet at <http://dms.dot.gov>, or in person at the Docket Management Facility, U.S. Department of Transportation, 400 Seventh Street SW., room PL-401, on the plaza level of the Nassif Building, Washington, DC. This docket number is FAA-2004-19200; the directorate identifier for this docket is 2003-NM-195-AD.

**FOR FURTHER INFORMATION CONTACT:** Candice Gerretsen, Aerospace Engineer, Airframe Branch, ANM-120S, FAA, Seattle Aircraft Certification Office, 1601 Lind Avenue, SW., Renton, Washington 98055-4056; telephone (425) 917-6428; fax (425) 917-6590.

**Examining the Docket**

The AD docket contains the proposed AD, comments, and any final disposition. You can examine the AD docket on the Internet at <http://dms.dot.gov>, or in person at the Docket Management Facility office between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The Docket Management Facility office (telephone (800) 647-5227) is located on the plaza level of the Nassif Building at the DOT street address stated in the **ADDRESSES** section.

**SUPPLEMENTARY INFORMATION:** The FAA proposed to amend 14 CFR Part 39 with an AD for certain Boeing Model 747-100, -100B, -100B SUD, -200B, -200C, -200F, and -300 series airplanes; and Model 747SP and 747SR series airplanes; equipped with Pratt & Whitney JT9D-3 and -7 (except -70) series engines or General Electric CF6-50 series engines with modified JT9D-7 inboard struts. That action, published in the **Federal Register** on September 29, 2004 (69 FR 58101), proposed to require repetitive detailed inspections of the midspar web of the inboard and/or outboard struts for cracking, disbonding, or buckling; repetitive detailed inspections of the midspar stiffeners for any crack or fracture; related investigative actions; and corrective actions, if necessary.

**Comments**

We provided the public the opportunity to participate in the development of this AD. We have considered the comment that has been submitted on the proposed AD. The commenter, the manufacturer, supports the proposed AD.

**Conclusion**

We have carefully reviewed the available data, including the comment that has been submitted, and determined that air safety and the public interest require adopting the AD as proposed.

**Costs of Compliance**

There are about 228 airplanes of the affected design worldwide and 78 airplanes of U.S. registry. The actions will take about 6 to 13 work hours per airplane, at an average labor rate of \$65 per work hour. Based on these figures, the estimated cost of the AD for U.S. operators is between \$30,420 and \$65,910, or between \$390 and \$845 per airplane, per inspection cycle.

**Authority for This Rulemaking**

The FAA's authority to issue rules regarding aviation safety is found in Title 49 of the United States Code. 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.

This rulemaking is promulgated under the authority described in Subtitle VII, Part A, Subpart III, Section 44701, "General requirements." Under that section, the FAA is charged with promoting safety 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 AD.

**Regulatory Findings**

We have determined that 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 the regulation:

1. Is not a "significant regulatory action" under Executive Order 12866;
2. Is not a "significant rule" under the DOT Regulatory Policies and Procedures (44 FR 11034, February 26, 1979); 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. We prepared a regulatory evaluation of the estimated costs to comply with this AD. See the