

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2004-19929; Directorate Identifier 2004-NE-15-AD; Amendment 39-14237; AD 2005-17-16]

RIN 2120-AA64

Airworthiness Directives; Pratt & Whitney JT8D-1, -1A, -1B, -7, -7A, -7B, -9, -9A, -11, -15, -15A, -17, -17A, -17R, -17AR, -209, -217, -217A, -217C, and -219 Turbofan Engines

AGENCY: Federal Aviation Administration (FAA), Department of Transportation (DOT).

ACTION: Final rule.

SUMMARY: The FAA is adopting a new airworthiness directive (AD) for Pratt & Whitney (PW) JT8D-1, -1A, -1B, -7, -7A, -7B, -9, -9A, -11, -15, -15A, -17, -17A, -17R, -17AR, -209, -217, -217A, -217C, and -219 turbofan engines. This AD requires removing affected rotating parts overhauled by a certain repair vendor, and inspecting the parts as applicable. This AD results from reports that certain JT8D critical life-limited rotating parts have been returned to service with cracks, corrosion pitting, or dimensions outside of manual limits. We are issuing this AD to prevent failure of critical life-limited rotating engine parts which could result in an uncontained engine failure and damage to the airplane.

DATES: This AD becomes effective September 30, 2005. The Director of the Federal Register approved the incorporation by reference of certain publications listed in the regulations as of September 30, 2005.

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 on the Internet at <http://dms.dot.gov> or in Room PL-401 on the plaza level of the Nassif Building, 400 Seventh Street, SW., Washington, DC.

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: The FAA proposed to amend 14 CFR part 39 with a proposed airworthiness directive (AD). The proposed AD applies to Pratt & Whitney (PW) JT8D-1, -1A, -1B, -7, -7A, -7B, -9, -9A, -11, -15, -15A, -17, -17A, -17R, -17AR, -209, -217, -217A, -217C,

and -219 turbofan engines. We published the proposed AD in the Federal Register on December 30, 2004 (69 FR 78359). That action proposed to require removing affected rotating parts overhauled by a certain repair vendor, and inspecting or replacing the parts as applicable.

Examining the AD Docket

You may examine the docket that contains the AD, any comments received, and any final disposition in person at the DMS Docket Offices between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The Docket Office (telephone (800) 647-5227) is located on the plaza level of the Department of Transportation Nassif Building at the street address stated in ADDRESSES. Comments will be available in the AD docket shortly after the DMS receives them.

Comments

We provided the public the opportunity to participate in the development of this AD. We have considered the comments received.

Request To Remove Rear Compressor Rear Hub From List of Affected Parts

One commenter requests that we remove the rear compressor rear hub from the list of affected parts. The commenter states that the part is a nickel alloy similar to the 13th stage disk and there is no cracking or corrosion associated with it. In addition, the rear compressor rear hub is not a life-limited part, and the serial numbers are not readily available. As a result, the commenter feels the proposed AD would force operators to inspect all parts, not just the listed serial number parts.

We agree. We have removed it from this AD.

Include All Parts Improperly Processed by the Repair Vendor

One commenter asks that this AD include all parts improperly processed by a certain repair vendor, not just the high-pressure compressor.

We do not agree. The proposed AD addresses those parts that pose a safety threat. All other parts either present no known safety threat, or are already addressed through other applicable ADs and field notifications. If we decide that further AD action is necessary to address other parts, we may issue a separate AD at that time.

Request To Clarify "Shop Visit"

One commenter asks that we clarify the definition of "shop visit" contained in the AD. The commenter feels that an operator could interpret a shop visit as when an airplane upon which an affected engine is installed, goes into a hangar.

We agree. We included the following definition in the AD: "A shop visit is defined as an engine removal where engine maintenance entails separation of pairs of major engine flanges or the removal of a disk, hub or spool at a maintenance facility, regardless of the scheduled maintenance action or the reason for engine removal."

Request To Inspect Rear Compressor Front and Rear Compressor Rear Hubs When They Are Accessible

One commenter asks that we not place time restrictions on operators to inspect rear compressor front and rear compressor rear hubs and instead inspect them when they are accessible. Because they aren't life-limited parts, the hubs are not tracked by serial numbers. The commenter believes the

proposed AD would require operators to inspect every JT8D before March 31, 2008. Those inspections would force early removal of many engines. We partially agree. Table 1 of this AD lists all life-limited rear compressor front hubs, and operators must inspect them by the March 31, 2008, deadline. Table 2 of this AD lists all rear compressor front hubs that are non-life limited. Operators must inspect them at the next accessibility. We removed the rear compressor rear hubs from this AD, based on a previous comment.

Compliance Date

One commenter asks us to explain how we determined the March 31, 2008 compliance date. The commenter states that it is unclear how we selected that compliance date since corrosion inspection ADs 2003-16-05 and 2003-12-07, as well as PW ASBs A6431 and A6435, designate July 18, 2011, as a compliance date.

We evaluated the results of a risk analysis based on inspection data obtained from a sample of parts repaired by the repair vendor. That analysis demonstrated a greater risk of failure if the parts were only inspected for corrosion and not for cracking as mandated in ADs 2003-16-05 and 2003-12-07. Based on that risk analysis, we set March 31, 2008, as the date by which operators must complete the inspections.

Use of Certain Parts as Serviceable Parts

One commenter recommends inspecting all parts listed in Tables 1 and 2 that have zero cycles-in-service since May 14, 2001, using PW ASB A6442 and made available for use as spare parts.

We do not agree. Parts listed in Table 1 were subjected to shot peening that could mask surface cracks. Parts listed in Table 2 were not. If the parts in Table 1 were cracked and, thereafter, shot peened, the cracks will reopen once operated in an engine, a significant factor in our risk analysis and the resulting compliance schedule in the proposed AD. Since there is no effective inspection to detect these cracks, operators may use only parts that have been in service. This is consistent with the manufacturer's disposition instructions in ASB A6442 that state, "All compressor disks and hubs listed in Table 1 that are not installed in an engine MUST be scrapped."

Definition of Installed Part

One commenter requests that the definition of installed part be included in this AD to prevent "operation of a part physically installed in a module."

We do not agree. A definition of "installed part" is unnecessary because this proposed AD prohibits all parts with zero cycles-in-service that are listed in Table 1 from entering service, regardless of whether they are installed or not. However, we added a new paragraph (h) to prevent installing any engine that has an affected disk or hub that has zero cycles-in-service after May 14, 2001, and recodified the subsequent paragraphs.

Operators' Cost

One commenter asks that we explain the cost to operators, suggesting that we evaluate the cost as if every part fails inspection. The commenter states that the current market value for all affected parts is \$14,413,020, and the cost to disassemble, inspect and reassemble engines outside of regularly scheduled maintenance is \$1,766,440.

We disagree. We still consider our evaluation of cost as noted in the NPRM valid. We do not expect that every part will fail the inspection, although we estimate that the number will be substantial. In addition, we did not include the full cost of every disk in the economic analysis if the

disks must be replaced before they reach their certified life, a normal operating expense. Accordingly, we didn't change the Costs to Comply.

Add Spare Parts to Paragraph (g)

One commenter asks that we add a sentence to Paragraph (g) that reads "This includes all parts on the shelf that have not been used."

We do not agree. This AD is clear as written. We have not added the sentence.

Conclusion

We have carefully reviewed the available data, including the comments received, and determined that air safety and the public interest require adopting the AD with the changes described previously. We have determined that these changes will neither increase the economic burden on any operator nor increase the scope of the AD.

Interim Action

These actions are interim actions and we might take further rulemaking action in the future.

Costs of Compliance

We estimate that this AD will affect about 632 JT8D engines installed on airplanes of U.S. registry. We estimate that 158 engines will require access to the high-pressure compressor outside of regularly scheduled maintenance, and will require 66 work hours per engine. The high pressure compressor section of the remaining 474 engines will be inspected during regularly scheduled maintenance, and will not require additional labor costs to inspect. The average labor rate is \$65 per work hour. We estimate that half of the parts presently installed will require replacement, at a cost of approximately \$6,730,800. Based on this information, we estimate the total cost of the AD to U.S. operators to be \$7,398,620.

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 at the address listed under ADDRESSES.

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 adding the following new airworthiness directive:

AIRWORTHINESS DIRECTIVE



Aircraft Certification Service
Washington, DC

U.S. Department
of Transportation
**Federal Aviation
Administration**

We post ADs on the internet at "www.faa.gov"

The following Airworthiness Directive issued by the Federal Aviation Administration in accordance with the provisions of Title 14 of the Code of Federal Regulations (14 CFR) part 39, applies to an aircraft model of which our records indicate you may be the registered owner. Airworthiness Directives affect aviation safety and are regulations which require immediate attention. You are cautioned that no person may operate an aircraft to which an Airworthiness Directive applies, except in accordance with the requirements of the Airworthiness Directive (reference 14 CFR part 39, subpart 39.3).

2005-17-16 Pratt & Whitney: Amendment 39-14237. Docket No. FAA-2004-19929; Directorate Identifier 2004-NE-15-AD.

Effective Date

- (a) This airworthiness directive (AD) becomes effective September 30, 2005.

Affected ADs

- (b) None.

Applicability

- (c) This AD applies to Pratt & Whitney (PW) JT8D-1, -1A, -1B, -7, -7A, -7B, -9, -9A, -11, -15, -15A, -17, -17A, -17R, -17AR, -209, -217, -217A, -217C, and -219 turbofan engines. These engines are installed on, but not limited to, Boeing 727 and 737 series, and McDonnell Douglas DC-9 series and MD-80 series airplanes.

Unsafe Condition

- (d) This AD results from reports that certain JT8D critical life-limited rotating parts have been returned to service with cracks, corrosion pitting, or dimensions outside of manual limits. We are issuing this AD to prevent failure of critical life-limited rotating engine parts, which could result in an uncontained engine failure and damage to the airplane.

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.

Inspect Parts

- (f) Remove all coating from the disks and hubs identified in Tables 1 and 2 of this AD and visually, dimensionally, and nondestructively inspect the parts using the inspection criteria listed in the Accomplishment Instructions portion of PW Alert Service Bulletin (ASB) No. JT8D A6442, dated April 4, 2003:

- (1) At the next shop visit after the effective date of this AD, but no later than March 31, 2008, for all parts listed in Table 1, and,
- (2) At next part accessibility for all parts listed in Table 2.

TABLE 1.—AFFECTED COMPRESSOR DISKS AND HUBS

SN	P/N	Description
B207AA0072	774407	DISK—COMPRESSOR, 7TH STAGE.
B207AA0185	774407	DISK—COMPRESSOR, 7TH STAGE.
B207AA0265	774407	DISK—COMPRESSOR, 7TH STAGE.
B207AA0307	774407	DISK—COMPRESSOR, 7TH STAGE.
B207AA0390	774407	DISK—COMPRESSOR, 7TH STAGE.
B207AA0602	774407	DISK—COMPRESSOR, 7TH STAGE.
BENCAH2848	774407	DISK—COMPRESSOR, 7TH STAGE.
BENCAJ5251	774407	DISK—COMPRESSOR, 7TH STAGE.
BENCAJ8447	774407	DISK—COMPRESSOR, 7TH STAGE.
BENCAJ8508	774407	DISK—COMPRESSOR, 7TH STAGE.
BENCAK1906	774407	DISK—COMPRESSOR, 7TH STAGE.
BENCAK5073	774407	DISK—COMPRESSOR, 7TH STAGE.
BENCAK6015	774407	DISK—COMPRESSOR, 7TH STAGE.
BENCAK6588	774407	DISK—COMPRESSOR, 7TH STAGE.
G83339	774407	DISK—COMPRESSOR, 7TH STAGE.
H29725	774407	DISK—COMPRESSOR, 7TH STAGE.
J39323	774407	DISK—COMPRESSOR, 7TH STAGE.
J66757	774407	DISK—COMPRESSOR, 7TH STAGE.
J93566	774407	DISK—COMPRESSOR, 7TH STAGE.
K72131	774407	DISK—COMPRESSOR, 7TH STAGE.
L24089	774407	DISK—COMPRESSOR, 7TH STAGE.
M15351	774407	DISK—COMPRESSOR, 7TH STAGE.
M78744	774407	DISK—COMPRESSOR, 7TH STAGE.
M88080	774407	DISK—COMPRESSOR, 7TH STAGE.
N04693	774407	DISK—COMPRESSOR, 7TH STAGE.
N24126	774407	DISK—COMPRESSOR, 7TH STAGE.
N37768	774407	DISK—COMPRESSOR, 7TH STAGE.
N70373	774407	DISK—COMPRESSOR, 7TH STAGE.
N88332	774407	DISK—COMPRESSOR, 7TH STAGE.
P14777	774407	DISK—COMPRESSOR, 7TH STAGE.
P14853	774407	DISK—COMPRESSOR, 7TH STAGE.
P54407	774407	DISK—COMPRESSOR, 7TH STAGE.
P60411	774407	DISK—COMPRESSOR, 7TH STAGE.
R02963	774407	DISK—COMPRESSOR, 7TH STAGE.
R02983	774407	DISK—COMPRESSOR, 7TH STAGE.
R03090	774407	DISK—COMPRESSOR, 7TH STAGE.
R12397	774407	DISK—COMPRESSOR, 7TH STAGE.
R12398	774407	DISK—COMPRESSOR, 7TH STAGE.
R12414	774407	DISK—COMPRESSOR, 7TH STAGE.
R12506	774407	DISK—COMPRESSOR, 7TH STAGE.
R12527	774407	DISK—COMPRESSOR, 7TH STAGE.
R19285	774407	DISK—COMPRESSOR, 7TH STAGE.
R19423	774407	DISK—COMPRESSOR, 7TH STAGE.
R19466	774407	DISK—COMPRESSOR, 7TH STAGE.
R31288	774407	DISK—COMPRESSOR, 7TH STAGE.
R31356	774407	DISK—COMPRESSOR, 7TH STAGE.
R37429	774407	DISK—COMPRESSOR, 7TH STAGE.
R57637	774407	DISK—COMPRESSOR, 7TH STAGE.

SN	P/N	Description
R57707	774407	DISK—COMPRESSOR, 7TH STAGE.
R72163	774407	DISK—COMPRESSOR, 7TH STAGE.
R81448	774407	DISK—COMPRESSOR, 7TH STAGE.
R81455	774407	DISK—COMPRESSOR, 7TH STAGE.
R90915	774407	DISK—COMPRESSOR, 7TH STAGE.
S05602	774407	DISK—COMPRESSOR, 7TH STAGE.
S13909	774407	DISK—COMPRESSOR, 7TH STAGE.
S13945	774407	DISK—COMPRESSOR, 7TH STAGE.
S14021	774407	DISK—COMPRESSOR, 7TH STAGE.
S14057	774407	DISK—COMPRESSOR, 7TH STAGE.
S14083	774407	DISK—COMPRESSOR, 7TH STAGE.
S14112	774407	DISK—COMPRESSOR, 7TH STAGE.
S36685	774407	DISK—COMPRESSOR, 7TH STAGE.
S36696	774407	DISK—COMPRESSOR, 7TH STAGE.
S36760	774407	DISK—COMPRESSOR, 7TH STAGE.
S36882	774407	DISK—COMPRESSOR, 7TH STAGE.
S37210	774407	DISK—COMPRESSOR, 7TH STAGE.
S37330	774407	DISK—COMPRESSOR, 7TH STAGE.
S37334	774407	DISK—COMPRESSOR, 7TH STAGE.
S37351	774407	DISK—COMPRESSOR, 7TH STAGE.
S37384	774407	DISK—COMPRESSOR, 7TH STAGE.
T04464	774407	DISK—COMPRESSOR, 7TH STAGE.
T04520	774407	DISK—COMPRESSOR, 7TH STAGE.
T04635	774407	DISK—COMPRESSOR, 7TH STAGE.
T04674	774407	DISK—COMPRESSOR, 7TH STAGE.
T04725	774407	DISK—COMPRESSOR, 7TH STAGE.
T04770	774407	DISK—COMPRESSOR, 7TH STAGE.
T04778	774407	DISK—COMPRESSOR, 7TH STAGE.
T04841	774407	DISK—COMPRESSOR, 7TH STAGE.
T04965	774407	DISK—COMPRESSOR, 7TH STAGE.
T05018	774407	DISK—COMPRESSOR, 7TH STAGE.
BENCAP1838	815607	DISK—COMPRESSOR, 7TH STAGE.
BENCAP5647	815607	DISK—COMPRESSOR, 7TH STAGE.
B207AA0127	5006007-01	DISK—COMPRESSOR, 7TH STAGE.
BENCAK9663	5006007-02	DISK—COMPRESSOR, 7TH STAGE.
BENCAL3896 .	5006007-02	DISK—COMPRESSOR, 7TH STAGE.
BENCAL5171 .	5006007-02	DISK—COMPRESSOR, 7TH STAGE.
BENCAM1583	5006007-02	DISK—COMPRESSOR, 7TH STAGE.
BENCAM3953	5006007-02	DISK—COMPRESSOR, 7TH STAGE.
BENCAM8359	5006007-02	DISK—COMPRESSOR, 7TH STAGE.
BENCAM8385	5006007-02	DISK—COMPRESSOR, 7TH STAGE.
BENCAN5764	5006007-02	DISK—COMPRESSOR, 7TH STAGE.
BENCAN5857	5006007-02	DISK—COMPRESSOR, 7TH STAGE.
2B7763	738308	DISK—COMPRESSOR, 8TH STAGE.
B208AA0063	748608	DISK—COMPRESSOR, 8TH STAGE.
B208AA0075	748608	DISK—COMPRESSOR, 8TH STAGE.
BENCAM3705	748608	DISK—COMPRESSOR, 8TH STAGE.
BENCAP0649	748608	DISK—COMPRESSOR, 8TH STAGE.
BENCAP1082	748608	DISK—COMPRESSOR, 8TH STAGE.

SN	P/N	Description
G62633	748608	DISK—COMPRESSOR, 8TH STAGE.
H64242	748608	DISK—COMPRESSOR, 8TH STAGE.
H64541	748608	DISK—COMPRESSOR, 8TH STAGE.
J27080	748608	DISK—COMPRESSOR, 8TH STAGE.
M54597	748608	DISK—COMPRESSOR, 8TH STAGE.
N84400	748608	DISK—COMPRESSOR, 8TH STAGE.
P26132	748608	DISK—COMPRESSOR, 8TH STAGE.
P28454	748608	DISK—COMPRESSOR, 8TH STAGE.
P28525	748608	DISK—COMPRESSOR, 8TH STAGE.
P28529	748608	DISK—COMPRESSOR, 8TH STAGE.
P28610	748608	DISK—COMPRESSOR, 8TH STAGE.
R18442	748608	DISK—COMPRESSOR, 8TH STAGE.
R44993	748608	DISK—COMPRESSOR, 8TH STAGE.
R45505	748608	DISK—COMPRESSOR, 8TH STAGE.
R74513	748608	DISK—COMPRESSOR, 8TH STAGE.
S01111	748608	DISK—COMPRESSOR, 8TH STAGE.
S19131	748608	DISK—COMPRESSOR, 8TH STAGE.
S50698	748608	DISK—COMPRESSOR, 8TH STAGE.
S50793	748608	DISK—COMPRESSOR, 8TH STAGE.
S78019	748608	DISK—COMPRESSOR, 8TH STAGE.
BENCAP4498	815608	DISK—COMPRESSOR, 8TH STAGE.
BENCAP4505	815608	DISK—COMPRESSOR, 8TH STAGE.
BENCAR1361	815608	DISK—COMPRESSOR, 8TH STAGE.
BENCAR1363	815608	DISK—COMPRESSOR, 8TH STAGE.
BENCAR1367	815608	DISK—COMPRESSOR, 8TH STAGE.
R91483	5005808-01	DISK—COMPRESSOR, 8TH STAGE.
T03355	5005808-01	DISK—COMPRESSOR, 8TH STAGE.
M33420	787008	HUB—REAR COMPRESSOR, FRONT.
N06209	787008	HUB—REAR COMPRESSOR, FRONT.
N33004	787008	HUB—REAR COMPRESSOR, FRONT.
N33349	787008	HUB—REAR COMPRESSOR, FRONT.
N33420	787008	HUB—REAR COMPRESSOR, FRONT.
N34154	787008	HUB—REAR COMPRESSOR, FRONT.
N90416	787008	HUB—REAR COMPRESSOR, FRONT.
N90658	787008	HUB—REAR COMPRESSOR, FRONT.
B228AA0190	787208	HUB—REAR COMPRESSOR, FRONT.
B228AA0194	787208	HUB—REAR COMPRESSOR, FRONT.
B228AA1021	787208	HUB—REAR COMPRESSOR, FRONT.
BENCAH0967	787208	HUB—REAR COMPRESSOR, FRONT.
BENCAH0969	787208	HUB—REAR COMPRESSOR, FRONT.
BENCAK0069	787208	HUB—REAR COMPRESSOR, FRONT.
BENCAK8767	787208	HUB—REAR COMPRESSOR, FRONT.
BENCAL2504	787208	HUB—REAR COMPRESSOR, FRONT.
BENCAM2701	787208	HUB—REAR COMPRESSOR, FRONT.
BENCAN0012	787208	HUB—REAR COMPRESSOR, FRONT.
BENCAN1226	787208	HUB—REAR COMPRESSOR, FRONT.
BENCAN3008	787208	HUB—REAR COMPRESSOR, FRONT.
P43696	787208	HUB—REAR COMPRESSOR, FRONT.
P43934	787208	HUB—REAR COMPRESSOR, FRONT.

SN	P/N	Description
P43948	787208	HUB—REAR COMPRESSOR, FRONT.
P44411	787208	HUB—REAR COMPRESSOR, FRONT.
P45017	787208	HUB—REAR COMPRESSOR, FRONT.
P45277	787208	HUB—REAR COMPRESSOR, FRONT.
P45459	787208	HUB—REAR COMPRESSOR, FRONT.
P45544	787208	HUB—REAR COMPRESSOR, FRONT.
R23166	787208	HUB—REAR COMPRESSOR, FRONT.
R23187	787208	HUB—REAR COMPRESSOR, FRONT.
R23277	787208	HUB—REAR COMPRESSOR, FRONT.
R23628	787208	HUB—REAR COMPRESSOR, FRONT.
R23806	787208	HUB—REAR COMPRESSOR, FRONT.
R24209	787208	HUB—REAR COMPRESSOR, FRONT.
R24598	787208	HUB—REAR COMPRESSOR, FRONT.
R24900	787208	HUB—REAR COMPRESSOR, FRONT.
R91415	787208	HUB—REAR COMPRESSOR, FRONT.
R91746	787208	HUB—REAR COMPRESSOR, FRONT.
R92224	787208	HUB—REAR COMPRESSOR, FRONT.
S07564	787208	HUB—REAR COMPRESSOR, FRONT.
S07655	787208	HUB—REAR COMPRESSOR, FRONT.
S07706	787208	HUB—REAR COMPRESSOR, FRONT.
S39160	787208	HUB—REAR COMPRESSOR, FRONT.
S39199	787208	HUB—REAR COMPRESSOR, FRONT.
S39338	787208	HUB—REAR COMPRESSOR, FRONT.
S39741	787208	HUB—REAR COMPRESSOR, FRONT.
S39839	787208	HUB—REAR COMPRESSOR, FRONT.
S40023	787208	HUB—REAR COMPRESSOR, FRONT.
S40043	787208	HUB—REAR COMPRESSOR, FRONT.
B228AA0261	792038	HUB—REAR COMPRESSOR, 8TH STAGE.
B228AA0566	792038	HUB—REAR COMPRESSOR, 8TH STAGE.
BENCAK8279	792038	HUB—REAR COMPRESSOR, 8TH STAGE.
M41870	792038	HUB—REAR COMPRESSOR, 8TH STAGE.
N89470	797938	HUB—REAR COMPRESSOR, 8TH STAGE.
BENCAP5753	815708	HUB—REAR COMPRESSOR, 8TH STAGE.
BENCAR5454	815708	HUB—REAR COMPRESSOR, 8TH STAGE.
BENCAR5458	815708	HUB—REAR COMPRESSOR, 8TH STAGE.
BENCAR5500	815708	HUB—REAR COMPRESSOR, 8TH STAGE.
BENCAR0387	815808	HUB—REAR COMPRESSOR, 8TH STAGE.
G79931	701509	DISK—COMPRESSOR, 9TH STAGE.
H12008	701509	DISK—COMPRESSOR, 9TH STAGE.
H85014	701509	DISK—COMPRESSOR, 9TH STAGE.
J24173	701509	DISK—COMPRESSOR, 9TH STAGE.
J89012	701509	DISK—COMPRESSOR, 9TH STAGE.
L31210	701509	DISK—COMPRESSOR, 9TH STAGE.
M84244	701509	DISK—COMPRESSOR, 9TH STAGE.
M84648	701509	DISK—COMPRESSOR, 9TH STAGE.
N03018	701509	DISK—COMPRESSOR, 9TH STAGE.
N209AA0003	701509	DISK—COMPRESSOR, 9TH STAGE.
N209AA0021	701509	DISK—COMPRESSOR, 9TH STAGE.
N209AA0108	701509	DISK—COMPRESSOR, 9TH STAGE.

SN	P/N	Description
N209AA0110	701509	DISK—COMPRESSOR, 9TH STAGE.
N209AA0120	701509	DISK—COMPRESSOR, 9TH STAGE.
N209AA0251	701509	DISK—COMPRESSOR, 9TH STAGE.
N209AA0254	701509	DISK—COMPRESSOR, 9TH STAGE.
N209AA0339	701509	DISK—COMPRESSOR, 9TH STAGE.
N209AA0465	701509	DISK—COMPRESSOR, 9TH STAGE.
N209AA0613	701509	DISK—COMPRESSOR, 9TH STAGE.
N41318	701509	DISK—COMPRESSOR, 9TH STAGE.
N97641	701509	DISK—COMPRESSOR, 9TH STAGE.
N97777	701509	DISK—COMPRESSOR, 9TH STAGE.
N98300	701509	DISK—COMPRESSOR, 9TH STAGE.
N98342	701509	DISK—COMPRESSOR, 9TH STAGE.
NENCAH0026	701509	DISK—COMPRESSOR, 9TH STAGE.
NENCAH0145	701509	DISK—COMPRESSOR, 9TH STAGE.
NENCAH0196	701509	DISK—COMPRESSOR, 9TH STAGE.
NENCAH0311	701509	DISK—COMPRESSOR, 9TH STAGE.
NENCAH0558	701509	DISK—COMPRESSOR, 9TH STAGE.
NENCAH0686	701509	DISK—COMPRESSOR, 9TH STAGE.
NENCAH0808	701509	DISK—COMPRESSOR, 9TH STAGE.
NENCAH1372	701509	DISK—COMPRESSOR, 9TH STAGE.
NENCAH1462	701509	DISK—COMPRESSOR, 9TH STAGE.
NENCAH1787	701509	DISK—COMPRESSOR, 9TH STAGE.
NENCAH2157	701509	DISK—COMPRESSOR, 9TH STAGE.
NENCAH2310	701509	DISK—COMPRESSOR, 9TH STAGE.
NENCAH2618	701509	DISK—COMPRESSOR, 9TH STAGE.
NENCAH2744	701509	DISK—COMPRESSOR, 9TH STAGE.
NENCAH2754	701509	DISK—COMPRESSOR, 9TH STAGE.
NENCAH2812	701509	DISK—COMPRESSOR, 9TH STAGE.
NENCAH3172	701509	DISK—COMPRESSOR, 9TH STAGE.
P11727	701509	DISK—COMPRESSOR, 9TH STAGE.
P51543	701509	DISK—COMPRESSOR, 9TH STAGE.
P51573	701509	DISK—COMPRESSOR, 9TH STAGE.
P51959	701509	DISK—COMPRESSOR, 9TH STAGE.
P52941	701509	DISK—COMPRESSOR, 9TH STAGE.
P98658	701509	DISK—COMPRESSOR, 9TH STAGE.
P98768	701509	DISK—COMPRESSOR, 9TH STAGE.
R17612	701509	DISK—COMPRESSOR, 9TH STAGE.
R17753	701509	DISK—COMPRESSOR, 9TH STAGE.
R17770	701509	DISK—COMPRESSOR, 9TH STAGE.
R18740	701509	DISK—COMPRESSOR, 9TH STAGE.
R19009	701509	DISK—COMPRESSOR, 9TH STAGE.
R19013	701509	DISK—COMPRESSOR, 9TH STAGE.
R45437	701509	DISK—COMPRESSOR, 9TH STAGE.
R45449	701509	DISK—COMPRESSOR, 9TH STAGE.
R45875	701509	DISK—COMPRESSOR, 9TH STAGE.
R46726	701509	DISK—COMPRESSOR, 9TH STAGE.
R72945	701509	DISK—COMPRESSOR, 9TH STAGE.
R72960	701509	DISK—COMPRESSOR, 9TH STAGE.
R73803	701509	DISK—COMPRESSOR, 9TH STAGE.

SN	P/N	Description
R73835	701509	DISK—COMPRESSOR, 9TH STAGE.
R73941	701509	DISK—COMPRESSOR, 9TH STAGE.
S00757	701509	DISK—COMPRESSOR, 9TH STAGE.
S00963	701509	DISK—COMPRESSOR, 9TH STAGE.
S18823	701509	DISK—COMPRESSOR, 9TH STAGE.
S18838	701509	DISK—COMPRESSOR, 9TH STAGE.
S18955	701509	DISK—COMPRESSOR, 9TH STAGE.
S50282	701509	DISK—COMPRESSOR, 9TH STAGE.
S50317	701509	DISK—COMPRESSOR, 9TH STAGE.
S50434	701509	DISK—COMPRESSOR, 9TH STAGE.
S70079	701509	DISK—COMPRESSOR, 9TH STAGE.
S77569	701509	DISK—COMPRESSOR, 9TH STAGE.
S77744	701509	DISK—COMPRESSOR, 9TH STAGE.
S77764	701509	DISK—COMPRESSOR, 9TH STAGE.
T18831	701509	DISK—COMPRESSOR, 9TH STAGE.
T27504	701509	DISK—COMPRESSOR, 9TH STAGE.
T27506	701509	DISK—COMPRESSOR, 9TH STAGE.
T27542	701509	DISK—COMPRESSOR, 9TH STAGE.
N41854	772509	DISK—COMPRESSOR, 9TH STAGE.
B209AA0643	798509	DISK—COMPRESSOR, 9TH STAGE.
BENCAK4407	798509	DISK—COMPRESSOR, 9TH STAGE.
BENCAK5293	798509	DISK—COMPRESSOR, 9TH STAGE.
BENCAK9176	798509	DISK—COMPRESSOR, 9TH STAGE.
S79381	798509	DISK—COMPRESSOR, 9TH STAGE.
BENCAP5919	815609	DISK—COMPRESSOR, 9TH STAGE.
BENCAP8126	815609	DISK—COMPRESSOR, 9TH STAGE.
BENCAP7181	815709	DISK—COMPRESSOR, 9TH STAGE.
1A9814	701410	DISK—COMPRESSOR, 10TH STAGE.
H18187	701410	DISK—COMPRESSOR, 10TH STAGE.
B210AA0149	772510	DISK—COMPRESSOR, 10TH STAGE.
B210AA0640	772510	DISK—COMPRESSOR, 10TH STAGE.
B210AA0909	772510	DISK—COMPRESSOR, 10TH STAGE.
BENCAH0262	772510	DISK—COMPRESSOR, 10TH STAGE.
BENCAH2166	772510	DISK—COMPRESSOR, 10TH STAGE.
BENCAH2273	772510	DISK—COMPRESSOR, 10TH STAGE.
BENCAH3784	772510	DISK—COMPRESSOR, 10TH STAGE.
BENCAH4152	772510	DISK—COMPRESSOR, 10TH STAGE.
BENCAH7481	772510	DISK—COMPRESSOR, 10TH STAGE.
BENCAJ9921	772510	DISK—COMPRESSOR, 10TH STAGE.
BENCAK0265	772510	DISK—COMPRESSOR, 10TH STAGE.
BENCAK0436	772510	DISK—COMPRESSOR, 10TH STAGE.
BENCAK6513	772510	DISK—COMPRESSOR, 10TH STAGE.
BENCAL1628	772510	DISK—COMPRESSOR, 10TH STAGE.
BENCAL1639	772510	DISK—COMPRESSOR, 10TH STAGE.
BENCAL3371	772510	DISK—COMPRESSOR, 10TH STAGE.
BENCAL6369	772510	DISK—COMPRESSOR, 10TH STAGE.
BENCAM1250	772510	DISK—COMPRESSOR, 10TH STAGE.
BENCAM3804	772510	DISK—COMPRESSOR, 10TH STAGE.
BENCAM3921	772510	DISK—COMPRESSOR, 10TH STAGE.

SN	P/N	Description
BENCAM4098	772510	DISK—COMPRESSOR, 10TH STAGE.
BENCAM9868	772510	DISK—COMPRESSOR, 10TH STAGE.
BENCAM9908	772510	DISK—COMPRESSOR, 10TH STAGE.
BENCAN1150	772510	DISK—COMPRESSOR, 10TH STAGE.
BENCAN7151	772510	DISK—COMPRESSOR, 10TH STAGE.
H77954	772510	DISK—COMPRESSOR, 10TH STAGE.
J70438	772510	DISK—COMPRESSOR, 10TH STAGE.
K35562	772510	DISK—COMPRESSOR, 10TH STAGE.
K67440	772510	DISK—COMPRESSOR, 10TH STAGE.
M61663	772510	DISK—COMPRESSOR, 10TH STAGE.
M73696	772510	DISK—COMPRESSOR, 10TH STAGE.
M73717	772510	DISK—COMPRESSOR, 10TH STAGE.
M73921	772510	DISK—COMPRESSOR, 10TH STAGE.
N02011	772510	DISK—COMPRESSOR, 10TH STAGE.
N22418	772510	DISK—COMPRESSOR, 10TH STAGE.
N80149	772510	DISK—COMPRESSOR, 10TH STAGE.
N80717	772510	DISK—COMPRESSOR, 10TH STAGE.
N97525	772510	DISK—COMPRESSOR, 10TH STAGE.
N98121	772510	DISK—COMPRESSOR, 10TH STAGE.
N98502	772510	DISK—COMPRESSOR, 10TH STAGE.
P51840	772510	DISK—COMPRESSOR, 10TH STAGE.
P51884	772510	DISK—COMPRESSOR, 10TH STAGE.
P52230	772510	DISK—COMPRESSOR, 10TH STAGE.
P52692	772510	DISK—COMPRESSOR, 10TH STAGE.
P53030	772510	DISK—COMPRESSOR, 10TH STAGE.
P98173	772510	DISK—COMPRESSOR, 10TH STAGE.
R18125	772510	DISK—COMPRESSOR, 10TH STAGE.
R18126	772510	DISK—COMPRESSOR, 10TH STAGE.
R18219	772510	DISK—COMPRESSOR, 10TH STAGE.
R45551	772510	DISK—COMPRESSOR, 10TH STAGE.
R45884	772510	DISK—COMPRESSOR, 10TH STAGE.
R46585	772510	DISK—COMPRESSOR, 10TH STAGE.
R72889	772510	DISK—COMPRESSOR, 10TH STAGE.
R74037	772510	DISK—COMPRESSOR, 10TH STAGE.
S01333	772510	DISK—COMPRESSOR, 10TH STAGE.
S01381	772510	DISK—COMPRESSOR, 10TH STAGE.
S19348	772510	DISK—COMPRESSOR, 10TH STAGE.
S19418	772510	DISK—COMPRESSOR, 10TH STAGE.
S19446	772510	DISK—COMPRESSOR, 10TH STAGE.
S19563	772510	DISK—COMPRESSOR, 10TH STAGE.
S50885	772510	DISK—COMPRESSOR, 10TH STAGE.
S51060	772510	DISK—COMPRESSOR, 10TH STAGE.
S51077	772510	DISK—COMPRESSOR, 10TH STAGE.
S70198	772510	DISK—COMPRESSOR, 10TH STAGE.
S70221	772510	DISK—COMPRESSOR, 10TH STAGE.
S78390	772510	DISK—COMPRESSOR, 10TH STAGE.
S78774	772510	DISK—COMPRESSOR, 10TH STAGE.
T19111	772510	DISK—COMPRESSOR, 10TH STAGE.
T19185	772510	DISK—COMPRESSOR, 10TH STAGE.

SN	P/N	Description
T28090	772510	DISK—COMPRESSOR, 10TH STAGE.
T28130	772510	DISK—COMPRESSOR, 10TH STAGE.
T28230	772510	DISK—COMPRESSOR, 10TH STAGE.
BENCAP3554	815610	DISK—COMPRESSOR, 10TH STAGE.
BENCAP8866	815610	DISK—COMPRESSOR, 10TH STAGE.
BENCAP9500	815610	DISK—COMPRESSOR, 10TH STAGE.
BENCAR3177	815610	DISK—COMPRESSOR, 10TH STAGE.
2A0326	701411	DISK—COMPRESSOR, 11TH STAGE.
8Y2537	701411	DISK—COMPRESSOR, 11TH STAGE.
B211AA0141	772511	DISK—COMPRESSOR, 11TH STAGE.
B211AA0611	772511	DISK—COMPRESSOR, 11TH STAGE.
B211AA0838	772511	DISK—COMPRESSOR, 11TH STAGE.
B211AA0934	772511	DISK—COMPRESSOR, 11TH STAGE.
B211AA1235	772511	DISK—COMPRESSOR, 11TH STAGE.
B211AA1315	772511	DISK—COMPRESSOR, 11TH STAGE.
B211AA1357	772511	DISK—COMPRESSOR, 11TH STAGE.
BENCAH0266	772511	DISK—COMPRESSOR, 11TH STAGE.
BENCAH8830	772511	DISK—COMPRESSOR, 11TH STAGE.
BENCAK0480	772511	DISK—COMPRESSOR, 11TH STAGE.
BENCAK7394	772511	DISK—COMPRESSOR, 11TH STAGE.
BENCAL2738 .	772511	DISK—COMPRESSOR, 11TH STAGE.
BENCAM2075	772511	DISK—COMPRESSOR, 11TH STAGE.
BENCAM7493	772511	DISK—COMPRESSOR, 11TH STAGE.
BENCAM7745	772511	DISK—COMPRESSOR, 11TH STAGE.
BENCAM7814	772511	DISK—COMPRESSOR, 11TH STAGE.
BENCAN3212	772511	DISK—COMPRESSOR, 11TH STAGE.
BENCAN7762	772511	DISK—COMPRESSOR, 11TH STAGE.
H58198	772511	DISK—COMPRESSOR, 11TH STAGE.
J24723	772511	DISK—COMPRESSOR, 11TH STAGE.
L55201	772511	DISK—COMPRESSOR, 11TH STAGE.
M10783	772511	DISK—COMPRESSOR, 11TH STAGE.
M40303	772511	DISK—COMPRESSOR, 11TH STAGE.
M61351	772511	DISK—COMPRESSOR, 11TH STAGE.
M61382	772511	DISK—COMPRESSOR, 11TH STAGE.
M62071	772511	DISK—COMPRESSOR, 11TH STAGE.
M73309	772511	DISK—COMPRESSOR, 11TH STAGE.
M87068	772511	DISK—COMPRESSOR, 11TH STAGE.
N03523	772511	DISK—COMPRESSOR, 11TH STAGE.
N41429	772511	DISK—COMPRESSOR, 11TH STAGE.
N97351	772511	DISK—COMPRESSOR, 11TH STAGE.
N97355	772511	DISK—COMPRESSOR, 11TH STAGE.
P03557	772511	DISK—COMPRESSOR, 11TH STAGE.
P11649	772511	DISK—COMPRESSOR, 11TH STAGE.
P51901	772511	DISK—COMPRESSOR, 11TH STAGE.
P52302	772511	DISK—COMPRESSOR, 11TH STAGE.
P52553	772511	DISK—COMPRESSOR, 11TH STAGE.
P53051	772511	DISK—COMPRESSOR, 11TH STAGE.
P66344	772511	DISK—COMPRESSOR, 11TH STAGE.
P66429	772511	DISK—COMPRESSOR, 11TH STAGE.

SN	P/N	Description
P76611	772511	DISK—COMPRESSOR, 11TH STAGE.
R05611	772511	DISK—COMPRESSOR, 11TH STAGE.
R18714	772511	DISK—COMPRESSOR, 11TH STAGE.
R29877	772511	DISK—COMPRESSOR, 11TH STAGE.
R29944	772511	DISK—COMPRESSOR, 11TH STAGE.
R29960	772511	DISK—COMPRESSOR, 11TH STAGE.
R30004	772511	DISK—COMPRESSOR, 11TH STAGE.
R30196	772511	DISK—COMPRESSOR, 11TH STAGE.
R30400	772511	DISK—COMPRESSOR, 11TH STAGE.
R30622	772511	DISK—COMPRESSOR, 11TH STAGE.
R30734	772511	DISK—COMPRESSOR, 11TH STAGE.
R30906	772511	DISK—COMPRESSOR, 11TH STAGE.
R44093	772511	DISK—COMPRESSOR, 11TH STAGE.
R44808	772511	DISK—COMPRESSOR, 11TH STAGE.
R45420	772511	DISK—COMPRESSOR, 11TH STAGE.
R45926	772511	DISK—COMPRESSOR, 11TH STAGE.
R46487	772511	DISK—COMPRESSOR, 11TH STAGE.
S04447	772511	DISK—COMPRESSOR, 11TH STAGE.
S04609	772511	DISK—COMPRESSOR, 11TH STAGE.
S80579	772511	DISK—COMPRESSOR, 11TH STAGE.
S80718	772511	DISK—COMPRESSOR, 11TH STAGE.
S80811	772511	DISK—COMPRESSOR, 11TH STAGE.
T22392	772511	DISK—COMPRESSOR, 11TH STAGE.
T23022	772511	DISK—COMPRESSOR, 11TH STAGE.
T23028	772511	DISK—COMPRESSOR, 11TH STAGE.
T23042	772511	DISK—COMPRESSOR, 11TH STAGE.
BENCAM8030	815611	DISK—COMPRESSOR, 11TH STAGE.
BENCAP1478	815611	DISK—COMPRESSOR, 11TH STAGE.
BENCAP1525	815611	DISK—COMPRESSOR, 11TH STAGE.
BENCAP3999	815611	DISK—COMPRESSOR, 11TH STAGE.
3A7566	701412	DISK—COMPRESSOR, 12TH STAGE.
BENCAH0234	772512	DISK—COMPRESSOR, 12TH STAGE.
H58273	772512	DISK—COMPRESSOR, 12TH STAGE.
H76934	772512	DISK—COMPRESSOR, 12TH STAGE.
K04068	772512	DISK—COMPRESSOR, 12TH STAGE.
L85496	772512	DISK—COMPRESSOR, 12TH STAGE.
M09749	772512	DISK—COMPRESSOR, 12TH STAGE.
M10951	772512	DISK—COMPRESSOR, 12TH STAGE.
M49036	772512	DISK—COMPRESSOR, 12TH STAGE.
M61295	772512	DISK—COMPRESSOR, 12TH STAGE.
M84028	772512	DISK—COMPRESSOR, 12TH STAGE.
M84233	772512	DISK—COMPRESSOR, 12TH STAGE.
N57563	772512	DISK—COMPRESSOR, 12TH STAGE.
N58053	772512	DISK—COMPRESSOR, 12TH STAGE.
P11181	772512	DISK—COMPRESSOR, 12TH STAGE.
P11212	772512	DISK—COMPRESSOR, 12TH STAGE.
P51407	772512	DISK—COMPRESSOR, 12TH STAGE.
P51774	772512	DISK—COMPRESSOR, 12TH STAGE.
P52401	772512	DISK—COMPRESSOR, 12TH STAGE.

SN	P/N	Description
P77282	772512	DISK—COMPRESSOR, 12TH STAGE.
P97978	772512	DISK—COMPRESSOR, 12TH STAGE.
R17545	772512	DISK—COMPRESSOR, 12TH STAGE.
R18483	772512	DISK—COMPRESSOR, 12TH STAGE.
R18596	772512	DISK—COMPRESSOR, 12TH STAGE.
R45619	772512	DISK—COMPRESSOR, 12TH STAGE.
R45941	772512	DISK—COMPRESSOR, 12TH STAGE.
R72907	772512	DISK—COMPRESSOR, 12TH STAGE.
R73448	772512	DISK—COMPRESSOR, 12TH STAGE.
R73794	772512	DISK—COMPRESSOR, 12TH STAGE.
R74102	772512	DISK—COMPRESSOR, 12TH STAGE.
R74226	772512	DISK—COMPRESSOR, 12TH STAGE.
S01740	772512	DISK—COMPRESSOR, 12TH STAGE.
S01866	772512	DISK—COMPRESSOR, 12TH STAGE.
S01877	772512	DISK—COMPRESSOR, 12TH STAGE.
S01918	772512	DISK—COMPRESSOR, 12TH STAGE.
S02036	772512	DISK—COMPRESSOR, 12TH STAGE.
S19787	772512	DISK—COMPRESSOR, 12TH STAGE.
S51385	772512	DISK—COMPRESSOR, 12TH STAGE.
S51589	772512	DISK—COMPRESSOR, 12TH STAGE.
SO1816	772512	DISK—COMPRESSOR, 12TH STAGE.
B212AA0497	798512	DISK—COMPRESSOR, 12TH STAGE.
B212AA0517	798512	DISK—COMPRESSOR, 12TH STAGE.
B212AA0943	798512	DISK—COMPRESSOR, 12TH STAGE.
B212AA1106	798512	DISK—COMPRESSOR, 12TH STAGE.
BENCAJ6163	798512	DISK—COMPRESSOR, 12TH STAGE.
BENCAJ9174	798512	DISK—COMPRESSOR, 12TH STAGE.
BENCAK2345	798512	DISK—COMPRESSOR, 12TH STAGE.
BENCAK2388	798512	DISK—COMPRESSOR, 12TH STAGE.
BENCAK5240	798512	DISK—COMPRESSOR, 12TH STAGE.
BENCAK9190	798512	DISK—COMPRESSOR, 12TH STAGE.
BENCAL2466	798512	DISK—COMPRESSOR, 12TH STAGE.
BENCAL5411	798512	DISK—COMPRESSOR, 12TH STAGE.
BENCAL6708	798512	DISK—COMPRESSOR, 12TH STAGE.
BENCAM3530	798512	DISK—COMPRESSOR, 12TH STAGE.
BENCAM3774	798512	DISK—COMPRESSOR, 12TH STAGE.
BENCAM5489	798512	DISK—COMPRESSOR, 12TH STAGE.
BENCAM6218	798512	DISK—COMPRESSOR, 12TH STAGE.
BENCAN0910	798512	DISK—COMPRESSOR, 12TH STAGE.
BENCAN6906	798512	DISK—COMPRESSOR, 12TH STAGE.
S94496	798512	DISK—COMPRESSOR, 12TH STAGE.
S94583	798512	DISK—COMPRESSOR, 12TH STAGE.
S94619	798512	DISK—COMPRESSOR, 12TH STAGE.
S94637	798512	DISK—COMPRESSOR, 12TH STAGE.
T28485	798512	DISK—COMPRESSOR, 12TH STAGE.
T43078	798512	DISK—COMPRESSOR, 12TH STAGE.
T43084	798512	DISK—COMPRESSOR, 12TH STAGE.
BENCAP3428	815612	DISK—COMPRESSOR, 12TH STAGE.
BENCAP7698	815612	DISK—COMPRESSOR, 12TH STAGE.

SN	P/N	Description
BENCAP7719	815612	DISK—COMPRESSOR, 12TH STAGE.
BENCAP7720	815612	DISK—COMPRESSOR, 12TH STAGE.
BENCAP8481	815612	DISK—COMPRESSOR, 12TH STAGE.
BENCAR2033	815612	DISK—COMPRESSOR, 12TH STAGE.

The P/N and description for each SN are provided as reference information.

TABLE 2.—AFFECTED REAR COMPRESSOR FRONT HUBS

SN	P/N	Description
2U4347	521041	HUB—REAR COMPRESSOR, FRONT.
2U4814	521041	HUB—REAR COMPRESSOR, FRONT.
2U5426	521041	HUB—REAR COMPRESSOR, FRONT.
4R1473	521041	HUB—REAR COMPRESSOR, FRONT.
6P7156	521041	HUB—REAR COMPRESSOR, FRONT.
9L9671	521041	HUB—REAR COMPRESSOR, FRONT.
9L9679	521041	HUB—REAR COMPRESSOR, FRONT.
9P3378	521041	HUB—REAR COMPRESSOR, FRONT.
9S4536	521041	HUB—REAR COMPRESSOR, FRONT.
9V7938	521041	HUB—REAR COMPRESSOR, FRONT.
2U4900	650782	HUB—REAR COMPRESSOR, FRONT.
B-21738	650782	HUB—REAR COMPRESSOR, FRONT.
2U5010	698145	HUB—REAR COMPRESSOR, FRONT.
9V8201	698145	HUB—REAR COMPRESSOR, FRONT.
3X3000	717623	HUB—REAR COMPRESSOR, FRONT.
3X6979	717623	HUB—REAR COMPRESSOR, FRONT.
5Z4371	717623	HUB—REAR COMPRESSOR, FRONT.
8X6204	717623	HUB—REAR COMPRESSOR, FRONT.
9V8645	717623	HUB—REAR COMPRESSOR, FRONT.
G23815	717623	HUB—REAR COMPRESSOR, FRONT.
G23817	717623	HUB—REAR COMPRESSOR, FRONT.
H05055	717623	HUB—REAR COMPRESSOR, FRONT.
H05059	717623	HUB—REAR COMPRESSOR, FRONT.
K47148	717623	HUB—REAR COMPRESSOR, FRONT.
N08016	717623	HUB—REAR COMPRESSOR, FRONT.
N08021	717623	HUB—REAR COMPRESSOR, FRONT.
P16923	717623	HUB—REAR COMPRESSOR, FRONT.
R15834	717623	HUB—REAR COMPRESSOR, FRONT.
S61487	717623	HUB—REAR COMPRESSOR, FRONT.
N08020	717623	HUB—REAR COMPRESSOR, FRONT.
2U4331	726222	HUB—REAR COMPRESSOR, FRONT.
4P2249	726222	HUB—REAR COMPRESSOR, FRONT.
4R2166	726222	HUB—REAR COMPRESSOR, FRONT.
9M2324	726222	HUB—REAR COMPRESSOR, FRONT.
P3757	726222	HUB—REAR COMPRESSOR, FRONT.
9S4223	726222	HUB—REAR COMPRESSOR, FRONT.
9V8146	726222	HUB—REAR COMPRESSOR, FRONT.
2X6377	726227	HUB—REAR COMPRESSOR, FRONT.
2X6391	726227	HUB—REAR COMPRESSOR, FRONT.
3X2998	726227	HUB—REAR COMPRESSOR, FRONT.

SN	P/N	Description
4R1190	726227	HUB—REAR COMPRESSOR, FRONT.
6X0015	726227	HUB—REAR COMPRESSOR, FRONT.
6X0071	726227	HUB—REAR COMPRESSOR, FRONT.
9P4067	726227	HUB—REAR COMPRESSOR, FRONT.
9V8100	726227	HUB—REAR COMPRESSOR, FRONT.
9V8331	726227	HUB—REAR COMPRESSOR, FRONT.
4R1272	726230	HUB—REAR COMPRESSOR, FRONT.
9V8024	726230	HUB—REAR COMPRESSOR, FRONT.
9V8107	726230	HUB—REAR COMPRESSOR, FRONT.

The P/N and description for each SN are provided as reference information.

Prohibition Against Installation of Disks and Hubs Listed in Table 1

(g) After the effective date of this AD, do not install any disk or hub listed in Table 1 of this AD that has zero cycles-in-service since May 14, 2001.

(h) After the effective date of this AD, do not return to service any engine that has a disk or hub listed in Table 1 of this AD that has zero cycles-in-service since May 14, 2001.

Definition of Shop Visit

(i) A shop visit is defined as an engine and/or module removal where engine maintenance entails separation of pairs of major engine flanges or the removal of a disk, hub or spool at a maintenance facility, regardless of the scheduled maintenance action or the reason for engine removal.

Definition of Part Accessibility

(j) For the purposes of this AD, accessibility of the HPC rear hub is removing the hub from the engine.

Alternative Methods of Compliance

(k) 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.

Related Information

(l) None.

Material Incorporated by Reference

(m) You must use Pratt & Whitney Alert Service Bulletin (ASB) No. JT8D A6442, dated April 4, 2003, to perform the actions required by this AD. The Director of the Federal Register approved the incorporation by reference of this service bulletin in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. Contact Pratt & Whitney, 400 Main St., East Hartford, CT 06108; telephone (860) 565-7700; fax (860) 565-1605, for a copy of this service information. You may review copies at the Docket Management Facility; U.S. Department of Transportation, 400 Seventh Street, SW., Nassif Building, Room PL-401, Washington, DC 20590-0001, on the Internet at <http://dms.dot.gov>, 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.

Issued in Burlington, Massachusetts, on August 19, 2005.

Richard Noll,

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[FR Doc. 05-16903 Filed 8-25-05; 8:45 am]

BILLING CODE 4910-13-P