

SERVICE BULLETIN

NON-MODIFICATION SERVICE BULLETIN — REPLACEMENT OF NO. 3 BEARINGS
FROM SUSPECT POPULATION (LOT B)

MODEL APPLICATION

V2522-A5, V2524-A5, V2527-A5, V2527E-A5, V2527M-A5, V2530-A5, V2533-A5

BULLETIN ISSUE SEQUENCE

V2500 Series 72-0674

ATA NUMBER

72-30-00

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Compliance Category

6

P&W Distribution Code

V2500

June 6/16

V2500-ENG-72-0674

Summary

The purpose of this Service Bulletin is to perform a one-time replacement for the No. 3 Bearing contained in Lot B of the suspect population. This NMSB is the closing action for the reduced 125 hour MMCD inspection interval established in Reference 6, NMSB 72-0672. The replacement of Lot A suspect bearings is documented in Reference 7, NMSB 72-0673.

Planning Information

Effectivity Data

Engine Models Applicable

V2522-A5, V2524-A5, V2527M-A5, V2527-A5, V2527E-A5, V2530-A5, V2533-A5
Engine Serial Nos. V10368, V10399, V10520, V10617, V10743, V10846, V11095, V11183, V11287, V11379, V11380, V11412, V11710, V11740, V11796, V11818, V12180, V12455, V12693, V12750, V15020, V16581, V16582, V16584, V16585, V16586, V16587, V16588, V16589, V16592, V16593, V16594, V16595, V16597, V16598, V16600, V16606, V16608, V16609, V16610, V16611, V16612, V16613, V16614, V16615, V16616, V16617, V16619, V16620, V16621, V16623, V16624, V16625, V16626, V16627, V16628, V16645, V16650, V16651, V16656, V16657, V16658, V16659, V16660, V16661, V16662, V16663, V16664, V16665, V16666, V16667, V16668, V16669, V16670, V16671, V16672, V16674, V16675, V16676, V16677, V16678, V16683, V16684, V16685, V16686, V16687, V16688, V16697, V16698, V16699, V16712, V16713, V16715, V16716, V16717, V16718, V16719, V16720, V16721, V16731, V16735, V16739, V16740, V16741, V16742, V16744, V16745, V16746, V16750, V16752, V16753, V16754, V16755, V16756, V16757, V16759, V16767, V16791, V16792, V16793, V16795, V16799, V16800, V16801, V16807, V16808, V16809, V16810, V16822, V16823, V16829, V16848, V16850, V16854, V16858, V16864, V16866, V16867, V16868, V16869, V16870, V16871, V16872, V16873, V16875, V16876, V16881, V16882, V16883, V16885, V16886, V16890, V16891, V16895, V16896, V16897, V16898, V16899, V16900, V16901, V16902, V16903, V16905, V16910, V17081, V17082, V17090, V17092, V17108, V17110, V17401, V17402, V17407, V17409, V17411, V17412, V17419, V17422, V17423, V17424, V17427, V17430, V17432, V17435, V17437, V17440, V17441, V17442, V17443, V17444, V17445, V17446, V17447, V17448, V17449, V17450, V17451, V17452, V17453, V17454, V17456, V17457, V17458, V17459, V17460, V17461, V17464, V17465, V17470, V17472, V17473, V17474, V17475, V17476, V17477, V17478, V17479, V17480, V17481, V17482, V17483, V17484, V17486, V17487, V17498, V17501, V17502, V17508, V17509, V17510, V17511, V17512, V17514, V17590, V17593, V17601, V17618, V17622, V17623, V17624, V17625, V17627, V17628, V17629, V17630, V17771

Concurrent Requirements

There are no concurrent requirements.

Reason

1. Condition: IAE has observed characteristic lives for bearings produced from two ball Lots (A and B) that are statistically lower than the general population.
2. Background: Since January 2015, there have been four confirmed low time No. 3 bearing events containing No. 3 bearings produced from ball Lot A and two confirmed low time events from Lot B.

Two Non-modification Service Bulletins (NMSB's) were recently released for suspect ball Lots A and B, which introduced a reduced 125 hour Master Magnetic Chip Detector (MMCD) inspection interval. (Reference 5, NMSB 72-0671 for Lot A and Reference 6, NMSB 72-0672 for Lot B).

3. Objective: This NMSB provides instruction for when the No. 3 bearings from Lot B should be replaced. The bearing replacement procedure is applicable to the suspect bearings and associated engines listed in Table 1, 2 and 3 of the Accomplishment Instructions. This NMSB is closing action for the reduced 125 hour MMCD inspection NMSB Reference 6, 72-0672.
4. Substantiation: Actions contained within this Service Bulletin have been substantiated through engineering analysis.
5. Effects of Bulletin on:
 - Removal/Installation: Not Affected.
 - Disassembly/Assembly: Not Affected.
 - Cleaning: Not Affected.
 - Inspection/Check: Not Affected.
 - Repair: Not Affected.
 - Testing: Not Affected.
6. Supplemental Information
 - None.

Description

Remove and replace the No. 3 Bearing listed in Table 1, 2 and 3 of the Accomplishment Instructions.

Compliance

Category 6

Accomplish when the subassembly (i.e. modules, accessories, components, build groups) is disassembled sufficiently to afford access to the affected part and to all affected spare parts.

Approval Data

The compliance statement and the procedures described in this Service Bulletin have been shown to comply with the applicable Federal Aviation Regulations and are FAA-APPROVED for the engine model listed.

The aircraft Type Certificate (TC) holder has been informed of this inspection.

Manpower

1. In Service
 - Not Applicable.
2. At Overhaul
 - Not Applicable.

Weight and Balance

1. Weight Change
 - None.

2. Moment Arm

No Effect.

3. Datum

Engine Front Mount Centerline (Power Plant Station (PPS) 100)

Electrical Load Data

This Service Bulletin has no effect on the aircraft electrical load.

Software Accomplishment Summary

Not Applicable.

References

NOTE: In 2014 IAE converted the V2500 Technical Publications to a new system. As a result of the conversion, some manuals were consolidated. All manuals received new P&W part numbers. To facilitate the use of this Service Bulletin, a Technical Publications conversion table is provided in the Appendix.

1. ATA Locator — 72-30-00.
2. Internal Reference No. — 16VC154
3. V2500-A5 Series Illustrated Parts Catalog, P&W Ref. PN 2A4428, Chapter/Section 72-32-24.
4. V2500 A1/A5 Series Engine Manual, P&W Ref. PN 2A4407, Chapter/Section 72-00-31, 72-00-50, 72-32-00.
5. V2500 Service Bulletin V2500-ENG-72-0671, Non-Modification Service Bulletin — No. 3 Bearing — Reduced Master Magnetic Chip Detector Inspection Interval For Suspect Population (Lot A).
6. V2500 Service Bulletin V2500-ENG-72-0672. Non-Modification Service Bulletin — No. 3 Bearing — Reduced Master Magnetic Chip Detector Inspection Interval For Suspect Population (Lot B).
7. V2500 Service Bulletin V2500-ENG-72-0673. Non-Modification Service Bulletin — Replacement of No. 3 Bearings From Suspect Population (Lot A).

Other Publications Affected

NOTE: In 2014 IAE converted the V2500 Technical Publications to a new system. As a result of the conversion, some manuals were consolidated. All manuals received new P&W part numbers. To facilitate the use of this Service Bulletin, a Technical Publications conversion table is provided in the Appendix.

1. None.

Interchangeability of Parts

Old and new parts are directly interchangeable.

Information in the Appendix

Alternate Accomplishment Instructions (No)

Progression Charts (No)

Added Data (Yes)

Revision to Table of Limits (No)

Inspection Procedures (No)

Material Information

Material — Price and Availability

1. Part prices were not available at the time of Service Bulletin publication. Contact IAE Spares Management & Logistics for firm quotations.

Industry Support Program

For V2500-A5 Engines in the effectivity of this Service Bulletin.

Under this program the operator is offered support in the form of a one-time discount of full catalog list price for the No. 3 Bearing Option, PN 2A4235 replaced as a result of the accomplishment of this NMSB.

To be eligible for this discount:

- No. 3 Bearing Option, PN 2A4235 must be replaced with new.
- Determine through your local IAE field representative if the removed No. 3 Bearing should be returned to P&W for investigation.
- If return of the bearing is not required, proof of mutilated No. 3 Bearing Option, PN 2A4235 (countersigned by the local IAE representative) must be provided to IAE.
- All required documentation must be submitted to IAE within 180 days of the applicable Shop Visit completion date. Requests received after the 180 day period, even if they are prior to the expiration date of this Support Program, will be ineligible for the IAE spare parts discount and disqualified.

No duplicate benefits through FHA, Service Policy or other Support Programs will be approved.

Customers are requested to place a purchase order for the parts through their normal PW/IAE spare parts channel.

Upon approval, IAE Materials Management will issue the applicable IAE spare parts discount to the Customer's account with IAE.

This support program is valid through December, 31, 2024.

If you have any questions concerning this offer please contact your IAE Customer Field Representative or Customer Fleet Director.

The material data that follows is for each engine.

For V2522-A5, V2524-A5, V2527-A5, V2527E-A5, V2527M-A5, V2530-A5, V2533-A5 Engines:

New PN	Qty	Estimate of Unit Price (\$)	Keyword	Old PN	Instructions — Disposition
	1	51,510.00	Bearing, No. 3	2A4170 (72-32-24-01-100K)	(4)(X)(O1)
	1	51,510.00	Bearing, No. 3	2A3851 (72-32-24-01-100L)	(4)(X)(O1)

Instructions/Disposition Code Statements:

Parts Modification Conditions

Estimated part prices are provided when they are available at time of publication. The Estimate of Unit Price is only for planning purposes and does not constitute a firm quotation. An asterisk (*) is shown where part pricing information was unavailable. In either case, contact IAE Spares for firm quotations.

(4) Replace the part as specified in the Accomplishment Instructions.

Spare Parts Availability

(X) See Reference 2., 3., or 4., Illustrated Parts Catalog for applicable replacement parts.

(O1) Bearing, PN 2A4170 , or PN 2A3851 are details of Bearing Option, PN 2A4235.

Vendor Services or Special Components/Materials

Not Applicable.

Tooling — Price and Availability

Special tools are not required to accomplish this Service Bulletin.

Reidentified Parts

Not Applicable.

Other Material Information Data

Not Applicable.

Accomplishment Instructions

1. Replace suspect No. 3 Bearing with No. 3 Bearing Option, PN 2A4235:
 - A. The removed bearing must either be returned to IAE or scrapped locally. If scrapped, a photograph or digital image of the mutilated bearing and a copy of the scrap tag must be provided to IAE Warranty.

Table 1 — Lot B — Bearing, PN 2A4170

ESN	Serial Number	ESN	Serial Number	ESN	Serial Number
V10368	PCWKAK1865	V16664	PCWKAK1161	V16755	PCWKAK1421
V10520	PCWKAK5499	V16665	PCWKAK1162	V16756	PCWKAK1422
V10743	PCWKAK5888	V16666	PCWKAK1163	V16757	PCWKAK1423
V10846	PCWKAK1428	V16667	PCWKAK1166	V16759	PCWKAK1425
V11095	PCWKAK5889	V16668	PCWKAK1167	V16767	PCWKAK1406
V11379	PCWKAK1819	V16669	PCWKAK1168	V16791	PCWKAK1764
V11412	PCWKAK0091	V16670	PCWKAK1169	V16792	PCWKAK1771
V11818	PCWKAK5506	V16671	PCWKAK1170	V16793	PCWKAK1756
V12180	PCWKAK1105	V16672	PCWKAK1171	V16795	PCWKAK1765
V12693	PCWKAK5531	V16674	PCWKAK1180	V16799	PCWKAK1773
V12750	PCWKAK5505	V16675	PCWKAK1165	V16807	PCWKAK1767
V15020	PCWKAK1106	V16676	PCWKAK1181	V16808	PCWKAK1768
V16600	PCWKAK1117	V16677	PCWKAK1182	V16809	PCWKAK1769
V16606	PCWKAK0100	V16678	PCWKAK1183	V16810	PCWKAK1770
V16608	PCWKAK0093	V16683	PCWKAK1164	V16822	PCWKAK1766
V16609	PCWKAK0096	V16684	PCWKAK1172	V16823	PCWKAK1772
V16610	PCWKAK0098	V16685	PCWKAK1173	V16829	PCWKAK1818
V16611	PCWKAK1116	V16686	PCWKAK1174	V16848	PCWKAK1424
V16612	PCWKAK0099	V16687	PCWKAK1175	V16850	PCWKAK1830
V16613	PCWKAK0092	V16688	PCWKAK1178	V16854	PCWKAK1832
V16614	PCWKAK1118	V16697	PCWKAK1176	V16858	PCWKAK1828
V16615	PCWKAK1113	V16698	PCWKAK1177	V16864	PCWKAK1829
V16616	PCWKAK1107	V16699	PCWKAK1179	V16866	PCWKAK1869
V16617	PCWKAK0088	V16712	PCWKAK1405	V16867	PCWKAK1870
V16619	PCWKAK1108	V16713	PCWKAK1407	V16868	PCWKAK1878
V16620	PCWKAK1114	V16715	PCWKAK1410	V16869	PCWKAK1868
V16621	PCWKAK0094	V16716	PCWKAK1411	V16870	PCWKAK1877

ESN	Serial Number	ESN	Serial Number	ESN	Serial Number
V16623	PCWKAK0095	V16717	PCWKAK1412	V16871	PCWKAK1873
V16624	PCWKAK0087	V16718	PCWKAK1414	V16872	PCWKAK1875
V16625	PCWKAK0097	V16719	PCWKAK1415	V16873	PCWKAK1831
V16626	PCWKAK1110	V16720	PCWKAK1419	V16875	PCWKAK1879
V16627	PCWKAK1112	V16721	PCWKAK1426	V16876	PCWKAK1867
V16628	PCWKAK1115	V16731	PCWKAK1416	V16881	PCWKAK1866
V16645	PCWKAK1111	V16735	PCWKAK1109	V16882	PCWKAK1874
V16650	PCWKAK0089	V16750	PCWKAK1413	V16883	PCWKAK1871
V16651	PCWKAK0090	V16752	PCWKAK1417	V16885	PCWKAK1872
V16662	PCWKAK1159	V16753	PCWKAK1418	V16886	PCWKAK1876
V16663	PCWKAK1160	V16754	PCWKAK1420	V16910	PCWKAK1409

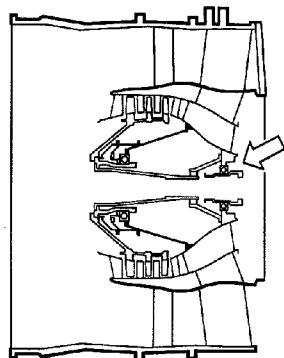
Table 2 — Lot B — Bearing, PN 2A4170

ESN	Serial Number	ESN	Serial Number	ESN	Serial Number
V17401	PCWKAK5472	V17451	PCWKAK5485	V17486	PCWKAK5511
V17402	PCWKAK5473	V17452	PCWKAK5500	V17487	PCWKAK5516
V17407	PCWKAK5474	V17453	PCWKAK5504	V17498	PCWKAK5520
V17409	PCWKAK5470	V17454	PCWKAK5502	V17501	PCWKAK5532
V17411	PCWKAK5483	V17456	PCWKAK5507	V17502	PCWKAK5890
V17412	PCWKAK5478	V17457	PCWKAK5498	V17508	PCWKAK5461
V17419	PCWKAK5484	V17458	PCWKAK5497	V17509	PCWKAK5464
V17422	PCWKAK5475	V17459	PCWKAK5508	V17510	PCWKAK5514
V17423	PCWKAK5476	V17460	PCWKAK5468	V17511	PCWKAK5513
V17424	PCWKAK5477	V17461	PCWKAK5467	V17512	PCWKAK5522
V17427	PCWKAK5503	V17464	PCWKAK5493	V17514	PCWKAK5525
V17430	PCWKAK5471	V17465	PCWKAK5509	V17590	PCWKAK6190
V17432	PCWKAK5460	V17470	PCWKAK5462	V17593	PCWKAK5937
V17435	PCWKAK5469	V17472	PCWKAK5465	V17601	PCWKAK5930
V17437	PCWKAK5490	V17473	PCWKAK5528	V17618	PCWKAK6195
V17440	PCWKAK5496	V17474	PCWKAK5521	V17622	PCWKAK6187
V17441	PCWKAK5491	V17475	PCWKAK5530	V17623	PCWKAK6189
V17442	PCWKAK5495	V17476	PCWKAK5529	V17624	PCWKAK6188
V17443	PCWKAK5492	V17477	PCWKAK5512	V17625	PCWKAK5936

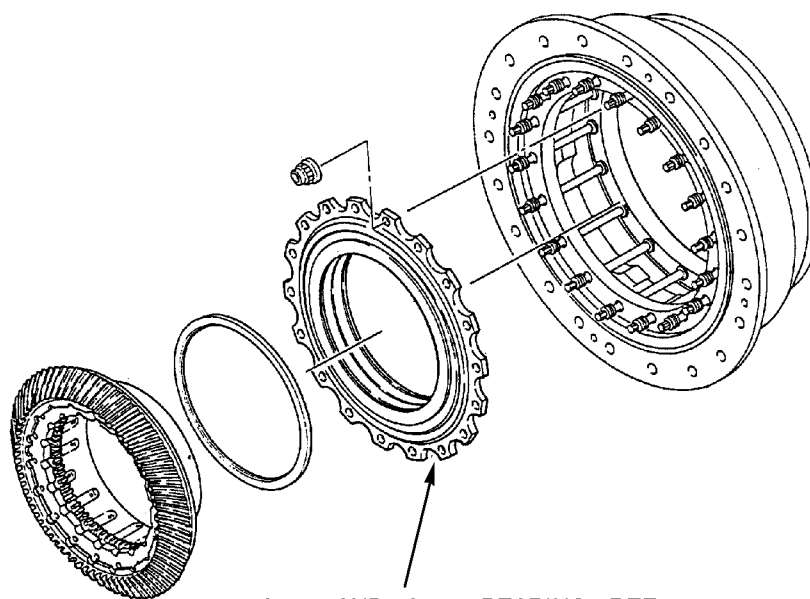
ESN	Serial Number	ESN	Serial Number	ESN	Serial Number
V17444	PCWKAK5488	V17478	PCWKAK5518	V17627	PCWKAK6193
V17445	PCWKAK5494	V17479	PCWKAK5515	V17628	PCWKAK6192
V17446	PCWKAK5489	V17480	PCWKAK5527	V17629	PCWKAK6191
V17447	PCWKAK5486	V17481	PCWKAK5524	V17630	PCWKAK6194
V17448	PCWKAK5487	V17482	PCWKAK5510	V17771	PCWKAK5463
V17449	PCWKAK5501	V17483	PCWKAK5519		
V17450	PCWKAK5466	V17484	PCWKAK5517		

Table 3 — Lot B — Bearing, PN 2A3851

ESN	Serial Number	ESN	Serial Number	ESN	Serial Number
V10399	PCWKAK0145	V16594	PCWKAJ9612	V16890	PCWKAK0157
V10617	PCWKAK0143	V16595	PCWKAJ9613	V16891	PCWKAK0142
V11183	PCWKAK0148	V16597	PCWKAJ9609	V16895	PCWKAK0153
V11287	PCWKAK0147	V16598	PCWKAJ9611	V16896	PCWKAK0155
V11380	PCWKAK0149	V16656	PCWKAJ9608	V16897	PCWKAK0156
V11710	PCWKAK0162	V16657	PCWKAJ9607	V16898	PCWKAK0160
V11740	PCWKAK0146	V16658	PCWKAJ9617	V16899	PCWKAK0158
V11796	PCWKAK0163	V16659	PCWKAJ9616	V16900	PCWKAK0151
V12455	PCWKAK0144	V16660	PCWKAJ9615	V16901	PCWKAK0150
V16581	PCWKAK0104	V16661	PCWKAJ9618	V16902	PCWKAK0159
V16582	PCWKAK0106	V16739	PCWKAJ9605	V16903	PCWKAK0152
V16584	PCWKAK0103	V16740	PCWKAJ9599	V16905	PCWKAK0161
V16585	PCWKAJ9620	V16741	PCWKAJ9606	V17081	PCWKAK2632
V16586	PCWKAK0101	V16742	PCWKAJ9600	V17082	PCWKAK2633
V16587	PCWKAK0105	V16744	PCWKAJ9598	V17090	PCWKAK2630
V16588	PCWKAK0102	V16745	PCWKAJ9601	V17092	PCWKAK2629
V16589	PCWKAJ9619	V16746	PCWKAJ9602	V17108	PCWKAK2628
V16592	PCWKAJ9614	V16800	PCWKAJ9603	V17110	PCWKAK2631
V16593	PCWKAJ9610	V16801	PCWKAJ9604		



MODULE 32



2A4170 AND 2A3851 BEARING - REF

B526344

LOCATION OF THE NO. 3 BEARING
FIGURE 1

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Appendix

Added Data

Internal Reference Information

Revision No.	Reference Document	Origination
Original	EA16VC154	DM/RCM

Number values shown in parentheses adjacent to U.S. values are International System of units (SI) equivalents.

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Technical Publications Cross Reference Table

Publication	Engine Model(s)	IAE IETM Pub Ref	P&W Part Number
ENGINE MANUAL — A1, A5	All	E-V2500-1IA	2A4407
CMM-EHC — A1, A5	All	EHC-V2500-1IA	2A4409
CMM-FN — A1, A5	All	FN-V2500-1IA	2A4410
CMM-MMC — A1, A5	All	MECH-V2500-1IA	2A4411
CMM-THD — A1, A5	All	THD-V2500-1IA	2A4412
TLM — A1, A5	All	T-V2500-1IA	2A4408
SPPM (SPM) — A1, A5, D5	All	SPP-V2500-1IA	2A4414
EIPC — A1	V2500-A1102Q00	S-V2500-1IA	2A4427

Publication	Engine Model(s)	IAE IETM Pub Ref	P&W Part Number
EIPC — A5	V2522/V2524/V2527M-AQ02	S-V2500-6IA	2A4428
	V2522/V2524/V2527M-AQ03	S-V2500-6IB	
	V2522/V2524/V2527M-SQ02	S-V2500-6SA	
	V2522/V2524/V2527M-SQ03	S-V2500-6SB	
	V2522/V2524/V2527M-SQ04	S-V2500-6NA	
	V2522/V2524/V2527M-SQ05	S-V2500-6NB	
	V2527/V2527E-AQ02	S-V2500-7IA	
	V2527/V2527E-AQ03	S-V2500-7IB	
	V2527/V2527E-SQ02	S-V2500-7SA	
	V2527/V2527E-SQ03	S-V2500-7SB	
	V2527/V2527E-SQ04	S-V2500-7NA	
	V2527/V2527E-SQ05	S-V2500-7NB	
	V2530-AQ02	S-V2500-2IA	
	V2530-AQ03	S-V2500-2IB	
	V2530-SQ02	S-V2500-2SA	
	V2530-SQ03	S-V2500-2SB	
	V2530-SQ04	S-V2500-2NA	
	V2530-SQ05	S-V2500-2NB	
	V2533-AQ02	S-V2500-5IA	
	V2533-AQ03	S-V2500-5IB	
	V2533-SQ02	S-V2500-5SA	
	V2533-SQ03	S-V2500-5SB	
	V2533-SQ04	S-V2500-5NA	
	V2533-SQ05	S-V2500-5NB	