

# SHOP

# MANUAL

## KOMATSU

### PC27MRX-1 PC30MRX-1 PC35MRX-1 PC40MRX-1 PC45MRX-1

MACHINE MODEL	SERIAL NUMBER
PC27MRX-1	3930 and up
PC30MRX-1	1001 and up
PC35MRX-1	1001 and up
PC40MRX-1	1001 and up
PC45MRX-1	1001 and up

PDF



DOWNLOAD



- This shop manual may contain attachments and optional equipment that are not available in your area. Please consult your local Komatsu distributor for those items you may require. Materials and specifications are subject to change without notice.
- PC27MRX-1 mount the 3D82AE-3 and PC30, 35MRX-1 mount the 3D84E-3 engine. For details of the engine, see the 68E-88E Series Engine Shop Manual.
- PC40MRX, PC45MRX-1 mount the 4D84E-3 and 4D88E-3 engine. For details of the engine, see the 68E-88E Series Engine Shop Manual.
- In some cases model name is written as PC27MR, PC30MR, PC35MR, PC40MR and PC45MR in the drawing. These names are same as PC27MRX, PC30MRX, PC35MRX, PC40MRX and PC45MRX.

# CONTENTS

	No. of page
<b>01 GENERAL</b> .....	01-1
<b>10 STRUCTURE AND FUNCTION</b> .....	10-1
<b>20 TESTING AND ADJUSTING</b> .....	20-1
<b>30 DISASSEMBLY AND ASSEMBLY</b> .....	30-1
<b>40 MAINTENANCE STANDARD</b> .....	40-1
<b>90 OTHERS</b> .....	90-1

The affected pages are indicated by the use of the following marks. It is requested that necessary actions be taken to these pages according to the table below.

Mark	Indication	Action required
○	Page to be newly added	Add
●	Page to be replaced	Replace
( )	Page to be deleted	Discard

Pages having no marks are those previously revised or made additions.

### LIST OF REVISED PAGES

Mark	Page	Revision number	Mark	Page	Revision number	Mark	Page	Revision number	Mark	Page	Revision number	Mark	Page	Revision number
●	00-1	(8)		01-15	(7)		10-4	(1)		10-42	(5)		10-72-13	(5)
	00-2	(1)		01-16			10-5	(1)		10-44	(5)		10-72-14	(5)
●	00-2-1	(8)		01-17			10-6	(1)		10-45	(5)		10-72-15	(5)
●	00-2-2	(8)		01-18	(3)		10-7	(1)		10-46	(5)		10-72-16	(5)
●	00-2-3	(8)		01-19			10-8	(1)		10-47	(5)		10-72-17	(5)
●	00-2-4	(8)		01-20	(7)		10-9	(1)		10-48	(5)		10-72-18	(5)
	00-3			01-21	(7)		10-10	(1)		10-49	(5)		10-72-19	(5)
	00-4			01-22	(7)		10-11	(1)		10-50	(5)		10-73	(5)
	00-5			01-23	(7)		10-12	(1)		10-51	(5)		10-74	(5)
	00-6			01-24	(5)		10-13	(1)		10-52	(5)		10-75	(1)
	00-7			01-25	(5)		10-14	(1)		10-53	(5)		10-76	(1)
	00-8			01-26	(5)		10-15	(1)		10-54	(5)		10-77	(1)
	00-9			01-27	(5)		10-16	(1)		10-55	(5)		10-78	(1)
	00-10			01-27-1	(5)		10-17	(1)		10-56	(5)		10-79	(1)
	00-11			01-27-2	(5)		10-18	(1)		10-57	(5)		10-80	(5)
	00-12			01-27-3	(5)		10-19	(1)		10-58	(5)		10-82	(5)
	00-13			01-27-4	(5)		10-20	(1)		10-59	(5)		10-83	(1)
	00-14			01-28	(5)		10-21	(1)		10-60	(5)		10-84	(5)
	00-15			01-29	(5)		10-22	(5)		10-61	(5)		10-86	(1)
	00-16			01-30	(5)		10-23	(5)		10-62	(5)		10-87	(1)
	00-17			01-31	(5)		10-24	(1)		10-63	(5)		10-88	(5)
	00-18			01-31-1	(5)		10-25	(3)		10-64	(5)		10-90	(1)
	00-19			01-31-2	(5)		10-26	(5)		10-65	(5)		10-91	(1)
	00-20			01-31-3	(5)		10-27	(5)		10-66	(5)		10-92	(1)
	00-21			01-31-4	(5)		10-28	(5)		10-67	(5)		10-93	(5)
	00-22			01-32	(7)		10-28-1	(5)		10-68	(5)		10-94	(5)
				01-33	(7)		10-29	(1)		10-69	(5)		10-95	(5)
	01-1			01-34			10-30	(1)		10-70	(5)		10-96	(5)
	01-2	(7)		01-35			10-31	(3)		10-71	(5)		10-97	(5)
	01-3			01-36	(7)		10-32	(1)		10-72	(5)		10-98	(5)
	01-4			01-37	(7)		10-33	(1)		10-72-1	(5)		10-99	(5)
	01-5			01-38	(4)		10-34	(1)		10-72-2	(5)		10-100	(5)
	01-6	(7)		01-39	(3)		10-35	(1)		10-72-3	(5)		10-101	(5)
	01-7			01-40	(3)		10-36	(1)		10-72-4	(5)		10-102	(5)
	01-8	(3)		01-41	(3)		10-37	(5)		10-72-6	(5)		10-103	(5)
	01-9	(3)		01-42	(5)		10-38	(5)		10-72-7	(5)		10-104	(5)
	01-10	(3)		01-43			10-39	(1)		10-72-8	(5)		10-105	(5)
	01-11	(3)					10-39-1	(5)		10-72-9	(5)		10-106	(5)
	01-12	(7)		10-1	(5)		10-39-2	(5)		10-72-10	(5)		10-107	(5)
	01-13	(7)		10-2	(1)		10-40	(5)		10-72-11	(5)		10-107-1	(5)
	01-14	(7)		10-3	(1)		10-41	(5)		10-72-12	(5)		10-107-2	(5)

Mark	Page	Revision number	Mark	Page	Revision number	Mark	Page	Revision number	Mark	Page	Revision number	Mark	Page	Revision number
	10-107-3	(5)		10-150	(3)	●	20-20	(8)		20-124			20-219	
	10-107-4	(5)		10-151	(1)		20-21			20-125			20-220	
	10-107-5	(5)		10-151-1	(3)		20-22			20-126			20-221	(6)
	10-108	(1)		10-151-2	(3)		20-23			20-127			20-222	
	10-109	(1)		10-152	(3)	●	20-24	(8)		20-128	(6)		20-223	
	10-110	(1)		10-153	(3)		20-25			20-129	(6)		20-224	
	10-112	(1)		10-153-1	(3)		20-26	(6)		20-130	(6)		20-225	
	10-113	(1)		10-154	(5)		20-27	(6)		20-130-1	(6)		20-226	
	10-114	(5)		10-155	(5)		20-28	(6)		20-131	(6)		20-227	
	10-115	(1)		10-156	(5)		20-29	(6)		20-132			20-228	
	10-116	(5)		10-157	(5)	●	20-30	(8)		20-133			20-229	
	10-117	(1)		10-158	(5)		20-30-1	(3)		20-134			20-230	
	10-118	(5)		10-158-2	(5)		20-31			20-135			20-231	
	10-119	(1)		10-158-3	(5)		20-32	(6)		20-136			20-232	
	10-120	(1)		10-158-4	(5)		20-33	(6)		20-137			20-233	
	10-121	(1)		10-158-5	(5)		20-34	(6)		20-138			20-233-1	(6)
	10-122	(1)		10-159	(5)		20-35			20-139			20-233-2	(6)
	10-123	(1)		10-160	(5)	●	20-36	(8)		20-140			20-234	
	10-124	(1)		10-161	(1)		20-36-1	(3)		20-141			20-235	
	10-124-2	(5)		10-162	(1)		20-37			20-142			20-301	
	10-124-3	(5)		10-163	(1)		20-38	(6)		20-143			20-302	
	10-124-4	(5)		10-164	(1)		20-39			20-144			20-303	
	10-124-5	(5)		10-165	(1)		20-40			20-145			20-304	
	10-124-6	(5)		10-166	(1)		20-41			20-146	(6)		20-305	
	10-124-7	(5)		10-167	(1)		20-42			20-147	(6)		20-306	(3)
	10-124-8	(5)		10-168	(3)		20-43			20-148			20-306-1	(6)
	10-126	(1)		10-170	(1)		20-44	(6)		20-149			20-306-2	(6)
	10-127	(1)		10-171	(1)		20-45	(6)		20-150	(6)		20-307	(6)
	10-128	(1)		10-172	(1)		20-46	(6)		20-151	(6)		20-307-1	(6)
	10-129	(1)		10-173	(1)		20-101			20-152			20-308	
	10-130	(1)		10-174	(1)		20-102	(6)		20-153			20-309	
	10-131	(1)		10-175	(1)		20-103			20-154			20-310	
	10-132	(1)		10-176	(1)		20-104			20-155			20-311	
	10-133	(1)					20-105			20-156			20-312	
	10-134	(1)		20-1	(6)		20-106			20-157			20-314	
	10-135	(1)		20-2			20-107			20-201			20-315	
	10-136	(1)		20-3			20-108			20-202			20-316	
	10-138	(1)	●	20-4	(8)		20-109			20-203			20-317	
	10-139	(1)		20-5	(6)		20-110			20-204			20-318	
	10-140	(1)		20-5-1	(6)		20-111			20-205			20-320	(6)
	10-141	(1)	●	20-6	(8)		20-112			20-206			20-321	
	10-142	(3)		20-7			20-113			20-207			20-321-1	(6)
	10-143	(3)		20-8			20-114			20-208			20-321-2	(6)
	10-143-1	(3)		20-9			20-115	(4)		20-209			20-322	(6)
	10-143-2	(3)		20-10			20-116			20-210			20-323	(6)
	10-144	(3)	●	20-11	(8)		20-117	(6)		20-211			20-324	(6)
	10-145	(3)		20-12			20-118			20-212			20-324-1	(6)
	10-145-1	(3)		20-13			20-119			20-213			20-324-2	(6)
	10-146	(3)		20-14			20-120			20-214			20-325	
	10-147	(3)		20-15			20-121	(6)		20-215	(6)		20-326	
	10-148	(3)		20-16			20-122			20-215-1	(6)		20-327	(3)
	10-149	(3)		20-17			20-122-1	(6)		20-216			20-327-1	(6)
	10-149-1	(3)		20-18			20-122-2	(6)		20-217			20-328	
	10-149-2	(3)		20-19			20-123			20-218			20-329	

Mark	Page	Revision number	Mark	Page	Revision number	Mark	Page	Revision number	Mark	Page	Revision number	Mark	Page	Revision number
	20-330	(3)		20-504	(6)		30-18	(1)		30-57	(1)		30-91-7	(2)
	20-330-1	(6)		20-505	(6)		30-19	(1)		30-58	(1)		30-91-8	(2)
	20-331			20-506			30-20	(1)		30-59	(1)		30-91-9	(2)
	20-332			20-507			30-21	(1)		30-60	(1)		30-91-10	(2)
	20-333	(6)		20-508			30-22	(1)		30-61	(1)		30-91-11	(2)
	20-333-1	(6)		20-509			30-23	(1)		30-62	(1)		30-91-12	(2)
	20-334			20-510	(6)		30-24	(1)		30-63	(1)		30-91-13	(2)
	20-335			20-511	(6)		30-25	(1)		30-63-1	(2)		30-91-14	(2)
	20-336			20-512			30-26	(1)		30-63-2	(2)		30-91-15	(2)
	20-337			20-513	(6)		30-27	(1)		30-63-3	(2)		30-91-16	(2)
	20-338			20-514	(6)		30-28	(1)		30-63-4	(2)		30-91-17	(2)
	20-339			20-515			30-29	(1)		30-63-5	(2)		30-91-18	(2)
	20-401			20-516			30-30	(1)		30-63-6	(2)		30-91-19	(2)
	20-402			20-517	(6)		30-31	(1)		30-63-7	(2)		30-91-20	(2)
	20-403			20-518			30-32	(1)		30-63-8	(2)		30-91-21	(2)
	20-404	(6)		20-518-1	(6)		30-33	(3)		30-63-9	(2)		30-91-22	(2)
	20-405	(6)		20-518-2	(6)		30-34	(3)		30-63-10	(2)		30-91-23	(2)
	20-406			20-519			30-35	(1)		30-63-11	(2)		30-91-24	(2)
	20-407			20-520			30-36	(1)		30-63-12	(2)		30-91-25	(2)
	20-408			20-521			30-37	(1)		30-63-13	(2)		30-91-26	(2)
	20-409			20-522	(6)		30-38	(1)		30-64	(1)		30-91-27	(2)
	20-410			20-523			30-39	(6)		30-65	(1)		30-91-28	(2)
	20-411			20-524			30-40	(6)		30-66	(1)		30-91-29	(2)
	20-412			20-525	(6)		30-41	(6)		30-67	(1)		30-91-30	(2)
	20-413			20-526			30-42	(1)		30-68	(1)		30-91-31	(2)
	20-414			20-527			30-43	(1)		30-69	(1)		30-91-32	(2)
	20-415			20-528			30-44	(1)		30-70	(1)		30-91-33	(2)
	20-416			20-529	(6)		30-45	(1)		30-71	(1)		30-91-34	(2)
	20-417			20-530	(6)		30-46	(1)		30-72	(1)		30-91-35	(2)
	20-418						30-47	(1)		30-73	(1)		30-91-36	(2)
	20-419			30-1	(2)		30-48	(1)		30-74	(1)		30-91-37	(2)
	20-420			30-2	(2)		30-49	(1)		30-75	(1)		30-91-38	(2)
	20-421			30-3	(1)		30-50	(1)		30-76	(1)		30-91-39	(2)
	20-422			30-4	(1)		30-51	(1)		30-77	(1)		30-91-40	(2)
	20-423			30-5	(1)		30-51-1	(2)		30-78	(1)		30-92	(6)
	20-424			30-7	(1)		30-51-2	(2)		30-79	(1)		30-93	(6)
	20-425			30-8	(2)		30-51-3	(2)		30-80	(1)		30-94	(1)
	20-426			30-8-1	(2)		30-51-4	(2)		30-81	(1)		30-95	(6)
	20-427			30-8-2	(2)		30-51-5	(2)		30-82	(1)		30-96	(1)
	20-428			30-8-3	(2)		30-51-6	(2)		30-83	(1)		30-97	(1)
	20-429	(6)		30-9	(2)		30-51-7	(2)		30-84	(1)		30-98	(1)
	20-430	(6)		30-9-1	(2)		30-51-8	(2)		30-85	(1)		30-99	(1)
	20-430-1	(6)		30-9-2	(2)		30-51-9	(2)		30-86	(1)		30-100	(6)
	20-431			30-9-3	(2)		30-51-10	(2)		30-87	(1)		30-101	(6)
	20-432			30-9-4	(2)		30-51-11	(2)		30-88	(1)		30-102	(1)
	20-433			30-9-5	(2)		30-51-12	(2)		30-89	(1)		30-103	(1)
	20-434			30-10	(1)		30-51-13	(2)		30-90	(1)		30-104	(1)
	20-435			30-11	(1)		30-51-14	(2)		30-91	(1)		30-105	(1)
	20-436			30-12	(1)		30-51-15	(2)		30-91-1	(2)		30-106	(1)
	20-437			30-13	(1)		30-52	(1)		30-91-2	(2)		30-107	(1)
	20-438			30-14	(1)		30-53	(1)		30-91-3	(2)		30-108	(1)
	20-501	(6)		30-15	(1)		30-54	(1)		30-91-4	(2)		30-109	(1)
	20-502	(6)		30-16	(1)		30-55	(1)		30-91-5	(2)		30-110	(1)
	20-503	(6)		30-17	(1)		30-56	(1)		30-91-6	(2)		30-111	(1)



Thank you very much  
for your reading.  
Please click here  
to get more information.