

# Shop Manual

## PC27MR-2

## PC30MR-2

## PC35MR-2

## PC40MR-2

## PC50MR-2

### HYDRAULIC EXCAVATOR

<b>SERIAL NUMBERS</b>	<b>PC27MR-2</b>	<b>15001 and up</b>
	<b>PC30MR-2</b>	<b>20001 and up</b>
	<b>PC35MR-2</b>	<b>5001 and up</b>
	<b>PC40MR-2</b>	<b>8001 and up</b>
	<b>PC50MR-2</b>	<b>5001 and up</b>

This material is proprietary to Komatsu America Corp. and is not to be reproduced, used, or disclosed except in accordance with written authorization from Komatsu America Corp.

It is our policy to improve our products whenever it is possible and practical to do so. We reserve the right to make changes or improvements at any time without incurring any obligation to install such changes on products sold previously.

Due to this continuous program of research and development, revisions may be made to this publication. It is recommended that customers contact their distributor for information on the latest revision.

Copyright 2005 Komatsu  
Printed in U.S.A.  
Komatsu America Corp.

# CONTENTS

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

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	(6)	●	01-13	(6)		10-31			10-68	(1)		10-93	(3)
	00-2	(2)		01-14	(1)		10-32			10-69			10-94	(3)
●	00-2-1	(6)		01-15	(1)		10-33	(3)		10-70	(3)		10-94-1	(3)
●	00-2-2	(6)		01-16	(3)		10-33-2	(3)		10-70-1	(3)		10-94-2	(3)
●	00-2-3	(6)		01-17	(3)		10-34			10-70-2	(3)		10-95	(1)
●	00-3			01-18	(3)		10-35			10-70-3	(3)		10-96	(1)
●	00-4			01-19	(3)		10-36			10-70-4	(3)		10-97	(1)
●	00-5			01-20	(3)		10-37	(3)		10-70-5	(3)		10-98	(1)
●	00-6			01-21			10-38			10-70-6	(3)		10-99	(1)
●	00-7						10-39			10-70-7	(3)		10-100	(3)
●	00-8			10-1			10-40			10-70-8	(3)		10-101	
●	00-9			10-2	(3)		10-41			10-70-9	(3)		10-102	
●	00-10			10-3	(3)		10-42			10-70-10	(3)		10-103	(3)
●	00-11			10-3-2	(3)		10-43			10-70-11	(3)		10-104	
●	00-12			10-4	(3)		10-44			10-70-12	(3)		10-105	
●	00-13			10-5	(3)		10-44-1	(3)		10-71	(1)		10-106	
●	00-14			10-6			10-45	(3)		10-72			10-108	(3)
●	00-15			10-7	(3)		10-46	(3)		10-73			10-109	
●	00-16			10-8	(3)		10-47	(3)		10-74			10-110	(3)
●	00-17			10-9			10-48	(3)		10-75	(3)		10-110-2	(3)
●	00-18			10-10			10-49	(3)		10-76	(1)		10-111	(3)
●	00-19			10-11			10-50			10-77	(3)		10-112	
●	00-20			10-12	(3)		10-51			10-78			10-113	(3)
●	00-21			10-12-2	(3)		10-52			10-79	(3)		10-114	
●	00-22			10-13	(3)		10-53			10-79-1	(1)		10-115	
				10-14	(3)		10-54	(3)		10-79-2	(1)		10-116	
	01-1			10-15	(3)		10-55			10-80			10-117	
	01-2	(3)		10-16	(3)		10-56	(3)		10-81	(1)		10-118	(3)
	01-3	(3)		10-17	(3)		10-57	(3)		10-82			10-119	
●	01-4	(6)		10-18	(3)		10-58			10-83			10-120	
	01-4-1	(3)		10-19	(3)		10-59			10-84			10-121	
	01-4-2	(3)		10-20	(3)		10-60	(1)		10-85			10-122	(3)
●	01-4-4	(6)		10-22	(3)		10-61	(1)		10-86			10-123	
	01-5	(1)		10-23			10-61-1	(1)		10-87	(3)		10-124	
	01-6	(1)		10-24	(3)		10-61-2	(1)		10-88			10-126	(3)
●	01-7	(6)		10-25			10-62			10-89			10-127	
	01-8	(1)		10-26			10-63			10-90			10-128	(3)
	01-9	(1)		10-27			10-64	(3)		10-90-2	(1)		10-129	
●	01-10	(6)		10-28	(3)		10-65			10-90-3	(3)		10-130	(3)
	01-11	(1)		10-29			10-66	(3)		10-91			10-131	
	01-12	(1)		10-30	(3)		10-67			10-92			10-132	

Mark	Page	Revision number	Mark	Page	Revision number	Mark	Page	Revision number	Mark	Page	Revision number	Mark	Page	Revision number
	10-133	(3)		10-180			(20-115)			20-213	(1)		20-309	(1)
	10-134			10-181		●	20-116	(1)		20-214	(1)		20-310	(4)
	10-136	(3)		10-182			20-116-1	(4)		20-215	(4)		20-311	(1)
	10-136-2	(3)				●	20-117	(6)		20-216	(4)		20-312	(4)
	10-137	(3)		20-1	(1)		20-118	(4)		20-217	(4)		20-313	(4)
	10-138			20-2	(4)	●	20-119	(6)		20-218	(4)		20-314	(1)
	10-139			20-3	(4)		20-120	(4)		20-219	(1)		20-315	(1)
	10-140			20-4	(4)		20-121	(4)		20-220	(1)		20-316	(4)
	10-141			20-4-1	(4)		20-122	(1)		20-221	(4)		20-317	(4)
	10-142			20-5	(4)	●	20-123	(6)		20-222	(4)		20-318	(1)
	10-143	(3)		20-5-1	(4)		20-124	(4)		20-223	(1)		20-319	(1)
	10-143-1	(3)		20-5-2	(4)		20-125	(4)		20-224	(4)		20-320	(1)
	10-143-2	(3)		20-5-3	(4)		20-126	(4)		20-225	(1)		20-321	(4)
	10-144	(3)		20-5-4	(4)		20-127	(4)		20-226	(1)		20-322	(4)
	10-145			20-5-6	(4)	●	20-128	(6)		20-227	(1)		20-323	(4)
	10-146			20-6	(4)	●	20-129	(6)		20-228	(1)		20-324	(1)
	10-147			20-7	(4)	●	20-130	(6)		20-229	(1)		20-325	(1)
	10-148	(3)		20-8	(4)	●	20-131	(6)		20-230	(1)		20-326	(1)
	10-149			20-9	(4)	●	20-132	(6)		20-231	(1)		20-327	(1)
	10-150			20-10	(1)	●	20-133	(6)		20-232	(1)		20-328	(1)
	10-151		●	20-11	(6)		20-134	(4)		20-233	(4)		20-329	(1)
	10-152	(3)		20-12	(4)		20-134-1	(4)		20-234	(1)		20-330	(4)
	10-153			20-13	(4)		20-135	(1)		20-235	(1)		20-331	(4)
	10-154			20-14	(4)		20-136	(4)		20-236	(1)		20-332	(4)
	10-155	(3)		20-15	(1)	●	20-137	(6)		20-237	(1)		20-333	(4)
	10-156	(3)	●	20-16	(6)		20-138	(4)		20-238	(1)		20-334	(4)
	10-156-1	(3)		20-17	(1)		20-139	(1)	●	20-239	(6)		20-335	(4)
	10-157			20-18	(4)		20-140	(4)		20-240	(1)		20-336	(4)
	10-158			20-19	(4)		20-141	(1)		20-241	(1)		20-337	(4)
	10-159			20-20	(1)		20-142	(1)		20-242	(1)		20-401	(4)
	10-160			20-21	(1)		20-143	(4)		20-243	(1)		20-402	(1)
	10-161			20-22	(1)		20-144	(4)		20-244	(1)		20-403	(4)
	10-162	(3)		20-23	(4)		20-145	(1)		20-245	(1)		20-404	(4)
	10-162-2	(3)		20-24	(4)		20-146	(1)		20-246	(1)		20-405	(4)
	10-163	(3)		20-25	(4)	○	20-146-1	(6)		20-247	(4)		20-406	(4)
	10-164	(3)	●	20-101	(6)	○	20-146-2	(6)		20-248	(1)		20-407	(4)
	10-165		●	20-102	(6)	○	20-146-3	(6)		20-249	(1)		20-408	(4)
	10-166		●	20-103	(6)	○	20-146-4	(6)		20-250	(1)		20-409	(4)
	10-167			20-104	(4)		20-147	(1)		20-251	(1)		20-410	(4)
	10-168		●	20-105	(6)		20-201	(1)	○	20-251-1	(6)		20-411	(4)
	10-169	(3)	●	20-106	(6)		20-202	(1)	●	20-252	(1)		20-412	(4)
	10-170		●	20-107	(6)		20-203	(1)		20-253	(1)		20-413	(4)
	10-171			(20-108)			20-204	(1)	●	20-254	(6)		20-414	(4)
	10-172		●	20-109	(6)		20-205	(1)		20-301	(4)		20-415	(4)
	10-173	(3)	●	20-110	(6)		20-206	(1)		20-302	(4)		20-416	(4)
	10-174	(3)		20-111	(4)		20-207	(1)		20-303	(4)		20-417	(4)
	10-175	(3)		20-112	(4)		20-208	(1)		20-304	(4)		20-418	(1)
	10-176			20-112-1	(4)		20-209	(1)		20-305	(1)		20-419	(4)
	10-177		●	20-113	(6)		20-210	(1)		20-306	(4)		20-420	(4)
	10-178	(3)		20-113-1	(4)		20-211	(1)		20-307	(4)		20-421	(4)
	10-179			20-114	(1)		20-212	(1)		20-308	(4)		20-422	(4)

Mark	Page	Revision number	Mark	Page	Revision number	Mark	Page	Revision number	Mark	Page	Revision number	Mark	Page	Revision number
	20-423	(4)		20-602	(1)		30-26	(2)	●	90-3	(6)			
	20-424	(1)		20-603	(1)		30-27	(5)	●	90-5	(6)			
	20-425	(4)		20-604	(1)		30-28	(2)	●	90-7	(6)			
	20-426	(4)		20-605	(1)		30-29	(5)	●	90-9	(6)			
	20-427	(4)		20-606	(1)		30-30	(5)	●	90-11	(6)			
	20-428	(4)		20-607	(1)		30-31	(2)	●	90-13	(6)			
	20-429	(4)		20-608	(1)		30-32	(5)	●	90-15	(6)			
	20-430	(4)		20-609	(1)		30-33	(5)	●	90-17	(6)			
	20-431	(4)		20-610	(1)		30-34	(5)	●	90-19	(6)			
	20-432	(4)		20-611	(1)		30-35	(2)	●	90-21	(6)			
	20-433	(4)		20-612	(1)	●	30-36	(6)	○	90-23	(6)			
	20-434	(4)		20-613	(1)	●	30-37	(6)						
	20-435	(4)		20-614	(1)		30-38	(2)						
	20-436	(4)		20-615	(1)		30-39	(5)						
	20-501	(1)		20-616	(1)		30-40	(5)						
	20-502	(4)		20-617	(1)	●	30-41	(6)						
	20-503	(4)		20-618	(1)		30-42	(5)						
	20-504	(4)		20-619	(1)		30-43	(2)						
	20-505	(1)		20-620	(1)		30-44	(2)						
	20-506	(4)		20-621	(1)		30-45	(5)						
	20-507	(1)		20-622	(1)		30-46	(5)						
	20-508	(1)		20-623	(1)		30-47	(2)						
	20-509	(1)		20-624	(1)		30-48	(2)						
	20-510	(1)					30-49	(5)						
	20-511	(1)		30-1	(5)		30-50	(5)						
	20-512	(4)		30-2	(2)		30-51	(5)						
	20-513	(4)		30-3	(2)		30-52	(5)						
	20-514	(1)	●	30-4	(6)		30-53	(2)						
	20-515	(1)		30-5	(2)		30-54	(5)						
	20-516	(4)		30-6	(5)		30-55	(5)						
	20-517	(1)		30-7	(5)		30-56	(5)						
	20-518	(4)	●	30-8	(6)		30-57	(2)						
	20-519	(1)	●	30-9	(6)	●	30-58	(6)						
	20-520	(4)		30-10	(5)	●	30-59	(6)						
	20-521	(1)	●	30-10-1	(6)		30-60	(5)						
	20-522	(4)		30-10-2	(5)		30-61	(5)						
	20-523	(4)	●	30-11	(6)	●	30-62	(6)						
	20-524	(1)	●	30-12	(6)	●	30-63	(6)						
	20-525	(4)	●	30-13	(6)		30-64	(5)						
	20-526	(4)		(30-14)			30-65	(5)						
	20-527	(1)	●	30-15	(6)		30-66	(5)						
	20-528	(1)	●	30-16	(6)		30-67	(5)						
	20-529	(1)	●	30-17	(6)		30-68	(5)						
	20-530	(4)	●	30-18	(6)		30-69	(5)						
	20-531	(4)		(30-19)			30-70	(5)						
	20-532	(1)	●	30-20	(6)		30-71	(5)						
	20-533	(4)		30-21	(2)		30-72	(5)						
	20-534	(1)		30-22	(2)		30-73	(5)						
	20-535	(1)	●	30-23	(6)									
	20-536	(1)		30-24	(2)	●	90-1	(6)						
	20-601	(1)		30-25	(2)		(90-2-1)							

It's a preview. You can download the full file by clicking the link below.

<https://shopservicemanual.com/>

Service Manuals from 2\$