

# SHOP MANUAL

## **KOMATSU**

# **WA300-1**

# **WA320-1**

MACHINE MODEL	SERIAL No.
<b>WA300-1</b>	<b>10001 and up</b>
<b>WA320-1</b>	<b>10001 and up</b>

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.

# CONTENTS

	No. of page
<b>01 GENERAL</b> .....	01-1
<b>10 ENGINE</b>	
11 STRUCTURE AND FUNCTION .....	11-1
12 TESTING AND ADJUSTING .....	12-1
13 DISASSEMBLY AND ASSEMBLY .....	13-1
<b>20 POWER TRAIN</b>	
21 STRUCTURE AND FUNCTION .....	21-1
22 TESTING AND ADJUSTING .....	22-1
23 DISASSEMBLY AND ASSEMBLY .....	23-1
24 MAINTENANCE STANDARD .....	24-1
<b>40 STEERING SYSTEM</b>	
41 STRUCTURE AND FUNCTION .....	41-1
42 TESTING AND ADJUSTING .....	42-1
43 DISASSEMBLY AND ASSEMBLY .....	43-1
44 MAINTENANCE STANDARD .....	44-1
<b>50 BRAKE SYSTEM</b>	
51 STRUCTURE AND FUNCTION .....	51-1
52 TESTING AND ADJUSTING .....	52-1
53 DISASSEMBLY AND ASSEMBLY .....	53-1
54 MAINTENANCE STANDARD .....	54-1
<b>60 WORK EQUIPMENT SYSTEM</b>	
61 STRUCTURE AND FUNCTION .....	61-1
62 TESTING AND ADJUSTING .....	62-1
63 DISASSEMBLY AND ASSEMBLY .....	63-1
64 MAINTENANCE STANDARD .....	64-1
<b>80 ELECTRIC AND ELECTRONIC SYSTEM</b>	
81 STRUCTURE AND FUNCTION .....	81-1
82 TESTING AND ADJUSTING .....	82-1
83 DISASSEMBLY AND ASSEMBLY .....	83-1
<b>90 OTHERS</b>	
91 STRUCTURE AND FUNCTION .....	91-1
93 DISASSEMBLY AND ASSEMBLY .....	93-1
97 GEAR PUMP .....	97-1

The affected pages are indicated by the use of the following marks. It is requested that necessary actions must be taken to these pages according to the list 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 not revised at this time.

### 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	⑦		01- 4	④		13- 14	②		21- 12	⑤		21- 39- 9	⑤
	00- 2	⑤		01- 5	④		13- 15	②		21- 13	③		21- 39- 10	⑤
●	00- 2- 1	⑦		01- 6			13- 16	②		21- 14	⑤		21- 39- 11	⑤
●	00- 2- 2	⑦		01- 7	④		13- 17	②		21- 15	⑤		21- 39- 12	⑤
●	00- 2- 3	⑦		01- 8	④		13- 18	②		21- 16	⑤		21- 39- 13	⑤
●	00- 2- 4	⑦		01- 9	④		13- 19	②		21- 17	⑤		21- 39- 14	⑤
	00- 3			01- 10	②		13- 20	②		21- 17 - 1	⑤		21- 39- 15	⑤
	00- 4			11- 1	④		13- 21	②		21- 17 - 2	⑤		21- 39- 16	⑤
	00- 5			11- 2	④		13- 22	②		21- 17 - 3	⑤		21- 39- 17	⑤
	00- 6			11- 3	④		13- 23	④		21- 17 - 4	⑤		21- 39- 18	⑤
	00- 7			11- 4	④		13- 24	②		21- 18			21- 40	
	00- 8			11- 5			13- 25	②		21- 19			21- 41	④
	00- 9			12- 1	⑤		13- 26	②		21- 20			21- 42	
	00- 10			12- 2	⑤		13- 27	④		21- 21	④		21- 43	
	00- 11			12- 3	④		13- 28	②		21- 22			21- 44	
	00- 12			12- 4	①		13- 29	②		21- 23	④		21- 45	
	00- 13			12- 5	③		13- 30	②		21- 24	⑤		21- 46	
	00- 14			12- 6	⑤		13- 31	②		21- 25	④		21- 47	③
	00- 15			12- 7	⑤		13- 32	②		21- 26	④		21- 48	
	00- 16			12- 8	③		13- 33	②		21- 27			21- 49	
	00- 17			12- 9	①		13- 34	②		21- 28			21- 50	⑤
	00- 18			12- 10	①		13- 35	②		21- 29			21- 51	④
	00- 19			12- 11	①		13- 36	②		21- 30	④		21- 52	⑤
	00- 20			12- 12	⑤		13- 37	②		21- 31	③		21- 53	⑤
	00- 21			12- 13	①		13- 38	④		21- 32	③		21- 54	⑤
	00- 22			12- 14	⑤		13- 39	②		21- 33	③		22- 1	③
	00- 23			12- 15	⑤		13- 40	④		21- 34	③		22- 2	⑤
	00- 24			12- 16	⑤		21- 1	⑤		21- 35	③		22- 3	④
	00- 25			13- 1	②		21- 2			21- 36			22- 4	⑤
	00- 26			13- 2	②		21- 3			21- 37	③		22- 5	①
	00- 27			13- 3	②		21- 4	⑤		21- 38	③		22- 6	⑤
	00- 28			13- 4	④		21- 5	⑤		21- 39	③		22- 7	⑤
	00- 29			13- 5	②		21- 5- 1	⑤		21- 39- 1	⑤		22- 7- 1	⑤
	00- 30			13- 6	④		21- 5- 2	⑤		21- 39- 2	⑤		22- 7- 2	⑤
	00- 31			13- 7	②		21- 6	⑤		21- 39- 3	⑤		22- 8	①
	00- 33	⑤		13- 8	②		21- 7	④		21- 39- 4	⑤		22- 9	①
	00- 34	⑤		13- 10	②		21- 8	④		21- 39- 5	⑤		22- 10	⑤
	01- 1	②		13- 11	②		21- 9	④		21- 39- 6	⑤		22- 11	①
	01- 2			13- 12	④		21- 10			21- 39- 7	⑤		22- 12	①
	01- 3	④		13- 13	②		21- 11			21- 39- 8	⑤		22- 13	①

Mark	Page	Revision number	Mark	Page	Revision number	Mark	Page	Revision number	Mark	Page	Revision number	Mark	Page	Revision number
	22-14	①		23- 47	⑥		23- 97	②		41- 9	⑤		43-27	②
	22-15	①		23- 48	⑥		23- 98	③		41-10			43-28	②
	22-16	①		23- 48-1	⑥		23- 99	④		41-11	③		43-29	⑥
	22-17	①		23- 49	②		23-100	②		41-12	③		43-29-1	⑥
	22-18	④		23- 50	②		23-101	②		41-13	⑤		43-30	⑥
	22-19	①		23- 51	②		23-102	④		41-14	⑤		43-31	⑥
	22-20	①		23- 52	②		23-103	②		41-15	⑤		43-32	②
	22-21	①		23- 54	②		23-104	②		41-16	④		43-33	②
	22-22	⑤		23- 54-1	⑥		23-105	②		41-17	⑤		43-34	②
	22-23	①		23- 55	⑥		23-106	②		41-18			43-35	⑥
	22-24	①		23- 56	⑥		23-107	②		41-19	⑤		43-36	④
	23- 1	②		23- 57	②		23-108	④		41-20	④		44- 1	④
	23- 2	②		23- 58	②		23-109	⑥		41-21	④		44- 2	⑤
	23- 4	②		23- 59	②		23-110	②		41-22	④		44- 3	④
	23- 5	②		23- 60	⑥		23-111	②		41-23	④		44- 4	④
	23- 6	②		23- 61	②		23-112	②		41-24	④		44- 5	③
	23- 7	②		23- 62	②		23-113	④		41-25	④		44- 6	⑤
	23- 8	④		23- 63	⑦		23-114	④		41-26	④		44- 7	⑤
	23- 9	②		23- 64	⑥		24- 1	⑤		42- 1	⑤		44- 8	⑤
	23-10	⑥		23- 65	②		24- 2	④		42- 2	⑤		44- 9	④
	23-12	②		23- 66	②		24- 3	④		42- 3	⑤		44-10	④
	23-13	⑥		23- 67	②		24- 4			42- 4	①		44-11	④
	23-14	②		23- 68	⑥		24- 5	⑤		42- 5	⑤		44-12	④
	23-15	④		23- 69	⑥		24- 6			42- 6	⑤		44-13	④
	23-16	④		23- 70	⑥		24- 7	⑤		42- 7	④		44-14	④
	23-17	④		23- 72	⑥		24- 8	④		42- 8	①		51- 1	⑤
	23-18	②		23- 73	②		24-10			42- 9	①		51- 2	⑤
	23-19	②		23- 74	④		24-11	⑤		42-10	④		51- 3	⑤
	23-20	②		23- 75	⑥		24-12	⑤		42-11	①		51- 4	⑤
	23-21	②		23- 75-1	⑥		24-13	④		42-12	③		51- 6	⑤
	23-22	⑥		23- 75-2	⑥		24-13-1	⑤		43- 1	②		51- 7	⑤
	23-23	②		23- 75-3	⑥		24-13-2	④		43- 2	②		51- 8	⑤
	23-24	②		23- 75-4	⑥		24-13-3	⑤		43- 3	②		51- 9	⑤
	23-25	②		23- 75-5	⑥		24-13-4	⑤		43- 4	④		51-10	⑤
	23-26	②		23- 76	④		24-14	⑤		43- 5	④		51-11	
	23-27	②		23- 77	④		24-15	⑤		43- 6	②		51-12	⑤
	23-28	②		23- 78	④		24-15-1	⑤		43- 7	②		51-13	⑤
	23-29	②		23- 79	②		24-15-2	⑤		43- 8	②		51-14	⑤
	23-30	②		23- 80	②		24-16	⑤		43- 9	②		52- 1	③
	23-31	②		23- 81	②		24-17	⑤		43-10	②		52- 2	③
	23-32	②		23- 82	②		24-18			43-11	②		52- 3	④
	23-34	②		23- 83	②		24-19	④		43-12	②		52- 4	①
	23-35	②		23- 84	⑥		24-20	④		43-13	②		52- 5	③
	23-36	⑥		23- 85	⑥		24-21	③		43-14	②		52- 6	③
	23-37	②		23- 86	②		24-22	⑤		43-15	④		52- 7	①
	23-38	④		23- 87	⑥		24-23	④		43-16	④		52- 8	①
●	23-39	⑦		23- 88	⑥		24-24	⑤		43-17	④		52- 9	④
●	23-40	⑦		23- 89	⑥		41- 1	④		43-18	④		52-10	①
●	23-41	⑦		23- 90	②		41- 2			43-19	②		52-11	①
●	23-41-1	⑦		23- 91	②		41- 3	⑤		43-20	②		52-12	①
○	23-41-2	⑦		23- 92	②	●	41- 5	⑦		43-21	④		52-13	①
	23-42	②		23- 93	②		41- 5	⑤		43-22	②		52-14	④
	23-43	②		23- 94	②		41- 6	⑤		43-24	②		52-15	②
	23-44	②		23- 95	②		41- 7	⑤		43-25	②		53- 1	②
	23-46	②		23- 96	②		41- 8	⑤		43-26	⑥		53- 2	②

Mark	Page	Revision number	Mark	Page	Revision number	Mark	Page	Revision number	Mark	Page	Revision number	Mark	Page	Revision number
	53- 3	④		62-14	③		81- 8	⑤		82-39	①		82- 68	①
	53- 4	④		62-15	④		81- 9	③	●	82-40	⑦		82- 69	①
	53- 5	④		62-16	④		81-10	③		82-41	①		82- 70	①
	53- 6	②		62-17	④		81-11			82-42	①		82- 71	①
	53- 7	④		62-18	④		81-12	③		82-43	①		82- 72	①
	53- 8	②		62-19	④		81-13	⑤	●	82-44	⑦		82- 74	①
	53- 9	⑥		62-20	①		81-14	⑤		82-45	①		82- 75	①
	53-10	⑥		63- 1	②		81-15	⑤		82-46	①		82- 76	①
	53-11	④		63- 2	②		81-16	⑤		82-47	①		82- 77	①
	53-12	②		63- 3	②	●	81-17	⑦	●	82-48	⑦		82- 78	①
	54- 1			63- 4	②		81-18	⑤	●	82-49	⑦		82- 79	①
	54- 2	③		63- 5	②		81-19	⑤		82-50	①		82- 80	①
	54- 3			63- 6	②		81-20	⑤	●	82-52	⑦		82- 81	①
	54- 4			63- 7	②		81-21	③	●	82-53	⑦		82- 82	①
	61- 1	⑤		63- 8	②		81-22	⑤		82-54	①		82- 83	①
	61- 2			63- 9	②		81-23	⑤	●	82-55	⑦		82- 84	①
	61- 3			63-10	②		81-24	⑤		82-56	⑤		82- 85	①
	61- 4	⑤		63-12	②		81-25	⑤	●	82-56- 1	⑤		82- 86	①
●	61- 5	⑦		63-13	②		81-26	⑤	●	82-56- 2	⑦		82- 87	①
●	61- 5-1	⑦		63-14	②		81-27	⑤	●	82-56- 3	⑦		82- 88	①
	61- 6			63-15	②		81-28	⑤		82-56- 4	⑤		82- 89	①
	61- 8			63-16	②		81-29	⑤	●	82-56- 6	⑦		82- 90	①
	61- 9			63-17	②		82- 1	①		82-56- 7	⑤		82- 91	①
	61-10	④		63-18	②		82- 2	⑤		82-56- 8	⑤		82- 92	①
	61-11	③		63-19	②	●	82- 3	⑦		82-56- 9	⑤		82- 93	①
	61-12	⑤		63-20	④		82- 5	①		82-56-10	⑤		82- 94	①
	61-13	⑤		63-21	④		82- 6	①	●	82-56-11	⑦		82- 95	①
	61-14	⑤		63-22	②		82- 8	①		82-56-12	⑤		82- 96	①
	61-15	⑤		63-23	②		82- 9	①		82-56-13	⑤		82- 97	①
	61-16	④		63-24	②		82-10	④		82-56-14	⑤		82- 98	①
	61-17	④		63-25	②		82-11	④		82-56-15	⑤		82- 99	①
	61-17-1	④		63-26	④		82-12	④	●	82-56-16	⑦		82-100	①
	61-17-2	④		63-27	②		82-13	①		82-56-17	⑤		82-101	①
	61-18	④		63-28	②		82-14	④		82-56-18	⑤		82-102	①
	61-19	④		63-29	②		82-16	①		82-56-19	⑤		82-103	③
	61-20	④		63-30	②		82-17	①	●	82-56-20	⑦		82-104	①
	61-21	⑤		63-31	②		82-19	⑤		82-56-21	⑤		82-106	①
	61-22	⑤		63-32	②	●	82-20	⑦		82-56-22	⑤		82-107	①
	61-23	⑤		64- 1	④		82-21	⑤		82-56-24	⑤		82-108	①
	61-24	④		64- 2	④		82-22	⑤		82-56-25	⑤		82-109	①
	61-25	⑤		64- 3	③		82-23	⑤		82-56-26	⑤		82-110	①
	61-26	③		64- 3-1	④		82-24	⑤	●	82-56-28	⑦		82-111	①
	61-27	④		64- 3-2	④		82-25	⑤	●	82-56-29	⑦		82-112	①
	62- 1	①		64- 4	⑤	●	82-26	⑦		82-56-30	⑤		82-113	⑤
	62- 2	⑤		64- 5		●	82-27	⑦	●	82-56-31	⑦		82-114	①
	62- 3	①		64- 6	②		82-28	①		82-56-32	⑤		82-115	①
	62- 4	①		64- 7	⑤	●	82-30	⑦		82-57	⑤		82-116	①
	62- 5	①		64- 8	⑤		82-31	①		82-59	⑤		82-117	①
	62- 6	①		64- 9	⑤		82-32	①		82-60	①		82-119	⑤
	62- 7	①		64-10	④		82-33	①		82-61	①		82-121	⑤
	62- 8	③		81- 1	⑤		82-34	④		82-62	①		82-122	⑤
	62- 9	③		81- 2		●	82-35	⑦		82-64	①		82-123	⑤
	62-10	⑤		81- 3	⑤		82-36	④		82-65	①		82-124	⑤
	62-11	⑤		81- 5	⑤		82-37	①		82-66	④		82-125	⑤
	62-13	①		81- 7	⑤		82-38	④		82-67	①		82-126	⑤

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

<https://shopservicemanual.com/>

Service Manuals from 2\$