

# SHOP

# MANUAL

## KOMATSU

# D31EX, PX-21

# D37EX, PX-21

MACHINE MODEL	SERIAL No.
<b>D31EX-21</b>	<b>50001 and up</b>
<b>D31PX-21</b>	<b>50001 and up</b>
<b>D37EX-21</b>	<b>5001 and up</b>
<b>D37PX-21</b>	<b>5001 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.
- D31, D37EX, PX-21 mount the SAA4D102E-2 engine.  
For details of the engine, see the 102-2 Series Engine Shop Manual.

# CONTENTS

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

**LIST OF REVISED PAGES**

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	Time of revision	Mark	Page	Time of revision	Mark	Page	Time of revision	Mark	Page	Time of revision	Mark	Page	Time of revision
●	00-1	(8)	○	00-26	(8)		10-9	(5)		10-36			10-62	
	00-2	(1)	○	00-27	(8)		10-9-1	(5)		10-37			10-63	
●	00-2-1	(8)	○	00-28	(8)		10-9-2	(5)		10-38			10-64	
●	00-2-2	(8)	○	00-29	(8)		10-10	(5)		10-39			10-65	
●	00-2-3	(8)					10-11			10-40			10-66	
●	00-3	(8)					10-12			10-41			10-67	
●	00-4	(8)		01-1			10-13			10-42			10-68	
●	00-5	(8)		01-2			10-14			10-43			10-69	
●	00-6	(8)		01-3			10-15			10-44			10-70	(4)
●	00-7	(8)		01-4	(7)		10-17			10-45			10-71	
●	00-8	(8)		01-5	(5)		10-18			10-46	(5)		10-72	
●	00-9	(8)		01-5-1	(7)		10-19			10-47			10-73	
●	00-10	(8)		01-5-2	(5)		10-20			10-48			10-74	
●	00-11	(8)		01-6	(7)		10-21			10-49			10-75	
●	00-12	(8)		01-7	(7)		10-22			10-50			10-76	
●	00-13	(8)		01-8			10-23			10-51			10-77	(5)
●	00-14	(8)		01-9			10-24			10-51-1	(5)		10-78	
●	00-15	(8)		01-10			10-25			10-51-2	(5)		10-79	
●	00-16	(8)		01-11			10-26			10-51-3	(5)		10-80	
●	00-17	(8)		01-12	(7)		10-27			10-52			10-81	
●	00-18	(8)					10-28			10-53			10-82	
●	00-19	(8)		10-1			10-29			10-54			10-83	
●	00-20	(8)		10-2	(7)		10-30			10-55			10-84	
●	00-21	(8)		10-3			10-31			10-56			10-85	
●	00-22	(8)		10-5			10-32			10-57			10-86	
○	00-23	(8)		10-6			10-33			10-58			10-87	
○	00-24	(8)		10-7			10-34			10-60			10-88	
○	00-25	(8)		10-8	(5)		10-35			10-61			10-89	

**LIST OF REVISED PAGES**

Mark	Page	Time of revision	Mark	Page	Time of revision	Mark	Page	Time of revision	Mark	Page	Time of revision	Mark	Page	Time of revision
	10-90			20-7	(1)		20-134	(1)	●	20-231	(8)		20-314	(1)
	10-91			20-8	(1)		20-135	(1)	●	20-232	(8)		20-315	(1)
	10-92			20-9	(1)		20-136	(1)	●	20-233	(8)		20-316	(1)
	10-93			20-10	(1)		20-137	(1)	●	20-234	(8)		20-317	(1)
	10-94						20-138	(1)	●	20-235	(8)		20-318	(1)
	10-95		●	20-101	(8)		20-139	(1)	●	20-236	(8)		20-319	(1)
	10-96		●	20-102	(8)		20-140	(1)	●	20-237	(8)		20-320	(1)
	10-97		○	20-102-1	(8)		20-141	(1)	●	20-238	(8)		20-321	(1)
	10-98			20-103	(1)				●	20-239	(8)		20-322	(1)
	10-99			20-104	(1)	●	20-201	(8)	○	20-240	(8)		20-323	(1)
	10-100			20-105	(1)		20-202	(1)	○	20-241	(8)		20-324	(1)
	10-101			20-106	(1)		20-203	(1)	○	20-242	(8)		20-325	(1)
	10-102			20-107	(1)	●	20-204	(8)	○	20-243	(8)		20-326	(1)
	10-103			20-108	(1)	●	20-205	(8)	○	20-244	(8)		20-327	(1)
	10-104			20-109	(1)	●	20-206	(8)	○	20-245	(8)		20-328	(1)
	10-105			20-110	(1)	●	20-207	(8)	○	20-246	(8)		20-329	(1)
	10-106		●	20-111	(8)	●	20-208	(8)	○	20-247	(8)			
	10-107		●	20-112	(8)	●	20-209	(8)	○	20-248	(8)		20-401	(1)
	10-108		●	20-113	(8)	●	20-210	(8)	○	20-249	(8)		20-402	(1)
	10-109		○	20-113-1	(8)	●	20-211	(8)	○	20-250	(8)		20-303	(1)
	10-110	(5)		20-114	(1)	○	20-211-1	(8)	○	20-251	(8)		20-404	(1)
	10-111		●	20-115	(8)		20-212	(1)	○	20-252	(8)		20-405	(1)
	10-112	(5)	●	20-116	(8)		20-213	(1)	○	20-253	(8)		20-406	(1)
	10-113		●	20-117	(8)		20-214	(1)	○	20-254	(8)		20-407	(1)
	10-114			20-118	(1)		20-215	(1)	○	20-255	(8)		20-408	(1)
	10-115			20-119	(1)		20-216	(1)	○	20-256	(8)		20-409	(1)
	10-116			20-120	(6)		20-217	(1)					20-410	(1)
	10-117	(7)	●	20-121	(8)	●	20-218	(8)		20-301	(1)		20-411	(1)
	10-118		●	20-122	(8)	●	20-219	(8)		20-302	(1)		20-412	(1)
	10-119			20-123	(3)	●	20-220	(8)		20-303	(1)		20-413	(1)
	10-120		●	20-124	(8)	●	20-221	(8)		20-304	(1)		20-414	(1)
	10-121			20-125	(1)	●	20-222	(8)		20-305	(1)		20-415	(1)
			●	20-126	(8)	●	20-223	(8)		20-306	(1)		20-416	(1)
				20-127	(1)	●	20-224	(8)		20-307	(1)		20-417	(1)
	20-1	(1)		20-128	(1)	●	20-225	(8)		20-308	(1)			
	20-2	(1)		20-129	(1)	●	20-226	(8)		20-309	(1)		20-501	(1)
	20-3	(4)		20-130	(1)	●	20-227	(8)		20-310	(1)		20-502	(1)
	20-4	(2)		20-131	(1)	●	20-228	(8)		20-311	(1)		20-504	(1)
●	20-5	(8)		20-132	(1)	●	20-229	(8)		20-312	(1)		20-505	(1)
●	20-6	(8)		20-133	(1)	●	20-230	(8)		20-313	(1)		20-506	(1)

**LIST OF REVISED PAGES**

Mark	Page	Time of revision	Mark	Page	Time of revision	Mark	Page	Time of revision	Mark	Page	Time of revision	Mark	Page	Time of revision
	20-507	(1)	●	30-1	(8)		30-39	(1)		30-79	(1)			
	20-508	(1)	●	30-2	(8)	●	30-40	(8)		30-80	(1)			
	20-509	(1)	●	30-3	(8)	●	30-41	(8)		30-81	(1)			
	20-510	(1)	●	30-4	(8)	●	30-42	(8)		30-82	(1)			
	20-511	(1)	○	30-4-1	(8)	●	30-43	(8)		30-83	(1)			
	20-512	(1)	○	30-4-2	(8)	●	30-44	(8)						
	20-513	(1)		30-5	(1)		30-45	(1)						
	20-514	(1)		30-6	(1)		30-46	(1)		90-1	(7)			
	20-515	(1)		30-7	(1)		30-47	(1)		90-3	(5)			
	20-516	(1)		30-8	(1)		30-48	(1)		90-3-2	(5)			
	20-517	(1)		30-9	(1)		30-49	(1)		90-5				
	20-518	(1)		30-10	(1)		30-50	(1)		90-5-2	(5)			
	20-519	(1)		30-11	(1)		30-51	(1)		90-7	(7)			
				30-12	(1)		30-52	(1)		90-9	(7)			
○	20-601	(8)		30-13	(1)		30-53	(1)		90-11	(7)			
○	20-602	(8)		30-14	(1)		30-54	(1)						
○	20-603	(8)		30-15	(1)		30-55	(1)						
○	20-604	(8)		30-16	(1)		30-56	(1)						
○	20-605	(8)		30-17	(1)		30-57	(1)						
○	20-606	(8)		30-18	(1)		30-58	(1)						
○	20-607	(8)		30-19	(1)		30-59	(1)						
○	20-608	(8)		30-20	(1)		30-60	(1)						
○	20-609	(8)		30-21	(1)		30-61	(1)						
○	20-610	(8)		30-22	(1)		30-62	(1)						
○	20-611	(8)		30-23	(1)		30-63	(1)						
○	20-612	(8)		30-24	(1)		30-64	(1)						
○	20-613	(8)		30-25	(1)		30-65	(1)						
○	20-614	(8)		30-26	(1)		30-66	(1)						
○	20-615	(8)		30-27	(1)		30-67	(1)						
○	20-616	(8)		30-28	(1)		30-68	(1)						
○	20-617	(8)		30-29	(1)		30-69	(1)						
○	20-618	(8)		30-30	(1)		30-70	(1)						
○	20-619	(8)		30-31	(1)		30-71	(1)						
○	20-620	(8)		30-32	(1)		30-72	(1)						
○	20-621	(8)		30-33	(1)		30-73	(1)						
○	20-622	(8)		30-34	(1)		30-74	(1)						
○	20-623	(8)		30-35	(1)		30-75	(1)						
				30-36	(1)		30-76	(1)						
				30-37	(1)		30-77	(1)						
				30-38	(1)		30-78	(1)						

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

<https://shopservicemanual.com/>

Service Manuals from 2\$