

SHOP MANUAL

KOMATSU PW100-3

MACHINE MODEL SERIAL NUMBER

PW100-3 **1890 and up**

- 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.
- PW100-3 mounts the S6D95L-1 engine.
For details of the engine, see the 95 Series Engine Shop Manual.

CONTENTS

| | No. of page |
|--|-------------|
| 10 ENGINE | |
| 11 STRUCTURE AND FUNCTION | 11-1 |
| 12 TESTING AND ADJUSTING | 12-1 |
| 13 DISASSEMBLY AND ASSEMBLY | 13-1 |
| 20 POWER TRAIN | |
| 21 STRUCTURE AND FUNCTION | 21-1 |
| 23 DISASSEMBLY AND ASSEMBLY | 23-1 |
| 24 MAINTENANCE STANDARD | 24-1 |
| 40 STEERING SYSTEM | |
| 41 STRUCTURE AND FUNCTION | 41-1 |
| 42 TESTING AND ADJUSTING | 42-1 |
| 43 DISASSEMBLY AND ASSEMBLY | 43-1 |
| 44 MAINTENANCE STANDARD | 44-1 |
| 50 AIR SYSTEM | |
| 51 STRUCTURE AND FUNCTION | 51-1 |
| 60 HYDRAULIC SYSTEM | |
| 61 STRUCTURE AND FUNCTION | 61-1 |
| 62 TESTING AND ADJUSTING | 62-1 |
| 63 DISASSEMBLY AND ASSEMBLY | 63-1 |
| 64 MAINTENANCE STANDARD | 64-1 |
| 70 WORK EQUIPMENT | |
| 71 STRUCTURE AND FUNCTION | 71-1 |
| 73 DISASSEMBLY AND ASSEMBLY | 73-1 |
| 74 MAINTENANCE STANDARD | 74-1 |
| 80 ELECTRICAL AND ELECTRONIC SYSTEM | |
| 81 STRUCTURE AND FUNCTION | 81-1 |

020D03

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 | Pages | Revision number | Mark | Pages | Revision number | Mark | Pages | Revision number | Mark | Pages | Revision number | Mark | Pages | Revision number |
|------|---------|-----------------|------|-------|-----------------|------|---------|-----------------|------|-------|-----------------|------|---------|-----------------|
| ● | 00- 1 | ④ | | 13- 1 | ① | ○ | 21- 5-1 | ④ | | 23- 4 | ① | | 41- 1 | |
| | 00- 2 | ③ | | 13- 2 | ① | ● | 21- 6 | ④ | | 23- 5 | ① | | 41- 2 | |
| ● | 00- 2-1 | ④ | | 13- 3 | ① | ● | 21- 7 | ④ | | 23- 6 | ① | | 41- 3 | |
| ● | 00- 2-2 | ④ | | 13- 4 | ① | | 21- 8 | | | 23- 7 | ① | | 41- 4 | |
| ● | 00- 3 | | | 13- 5 | ① | | 21- 9 | | | 23- 8 | ① | | 41- 5 | |
| ● | 00- 4 | | | 13- 6 | ① | | 21-10 | | | 23- 9 | ① | | 41- 6 | |
| ● | 00- 5 | | | 13- 7 | ① | | 21-11 | | | 23-10 | ① | | 41- 7 | |
| ● | 00- 6 | | | 13- 8 | ① | | 21-12 | | | 23-11 | ① | | 41- 8 | |
| ● | 00- 7 | | | 13- 9 | ① | | 21-13 | | | 23-12 | ① | | 41- 9 | |
| ● | 00- 8 | | | 13-10 | ① | | 21-14 | | | 23-13 | ① | | 41-10 | |
| ● | 00- 9 | | | 13-11 | ① | | 21-15 | | | 23-14 | ① | | 41-11 | |
| ● | 00-10 | | | 13-12 | ① | | 21-16 | | | 23-15 | ① | | 41-12 | |
| ● | 00-11 | | | 13-13 | ① | | 21-17 | | | 23-16 | ① | | 41-13 | |
| ● | 00-12 | | | 13-14 | ① | | 21-18 | ② | | 23-17 | ① | | 41-14 | |
| ● | 00-13 | | | 13-15 | ① | | 21-19 | | | 23-18 | ① | | 41-15 | |
| ○ | 00-14 | | | 13-16 | ① | | 21-19-1 | ② | | 23-19 | ① | | 41-16 | ② |
| ○ | 00-15 | | | 13-17 | ① | | 21-19-2 | ② | | 23-20 | ① | | 41-17 | ② |
| ○ | 00-16 | | | 13-18 | ① | | 21-20 | | | 23-21 | ① | | 41-18 | ② |
| ○ | 00-17 | | | 13-19 | ① | | 21-21 | | | 23-22 | ① | | 41-18-1 | ② |
| ○ | 00-18 | ④ | | 13-20 | ① | | 21-22 | | | 23-23 | ① | | 41-18-2 | ② |
| ○ | 00-19 | ④ | | 13-21 | ① | | 21-23 | | | 23-24 | ① | | 41-19 | |
| ○ | 00-20 | ④ | | 13-22 | ① | | 21-24 | | | 23-25 | ① | | 41-20 | |
| ○ | 00-21 | ④ | | 13-23 | ① | | 21-25 | | | 23-26 | ① | | 41-21 | |
| ● | 11- 1 | ④ | | 13-24 | ① | | 21-26 | | | 23-27 | ① | | 41-22 | ② |
| ○ | 11- 1-1 | ④ | | 13-25 | ① | | 21-27 | | | 23-28 | ① | | 41-23 | |
| ○ | 11- 1-2 | ④ | | 13-26 | ① | | 21-29 | | | 23-29 | ① | | 41-24 | |
| ○ | 11- 1-3 | ④ | | 13-27 | ① | | 21-30 | | | 23-30 | ① | | 41-25 | |
| ● | 11- 2 | ④ | | 13-28 | ① | | 21-31 | | | 23-31 | ① | | 41-26 | |
| | 11- 3 | | | 13-29 | ① | | 21-32 | | | 23-32 | ① | | 41-27 | |
| | 11- 4 | | | 13-30 | ① | | 21-33 | | | 23-33 | ① | | 41-28 | |
| | 11- 5 | | | 13-31 | ① | | 21-34 | | | 23-34 | ① | | 41-29 | |
| | 11- 6 | | | 13-32 | ① | | 21-35 | | | 23-35 | ① | | 41-30 | |
| | 11- 7 | | | 13-33 | ① | | 21-36 | | | 23-36 | ① | | 41-31 | |
| | 11- 8 | | | 13-34 | ① | | 21-37 | | | 23-37 | ① | | 41-32 | ② |
| | 12- 1 | ③ | | 13-35 | ① | | 21-38 | | | 24- 1 | | | 41-32-1 | ② |
| | 12- 2 | ③ | | 21- 1 | | | 21-39 | | | 24- 2 | | | 41-32-2 | ② |
| | 12- 3 | ③ | | 21- 2 | | | 21-40 | | | 24- 3 | | | 41-33 | ② |
| | 12- 4 | ③ | ● | 21- 3 | ④ | | 23- 1 | ① | | 24- 4 | ② | | 41-34 | |
| | 12- 5 | ③ | ● | 21- 4 | ④ | | 23- 2 | ① | | 24- 5 | | | 41-35 | |
| | 12- 6 | ③ | ● | 21- 5 | ④ | | 23- 3 | ① | | 24- 6 | | | 41-36 | |

020D03

| Mark | Pages | Revision number | Mark | Pages | Revision number | Mark | Pages | Revision number | Mark | Pages | Revision number | Mark | Pages | Revision number |
|------|-------|-----------------|------|---------|-----------------|------|---------|-----------------|------|-------|-----------------|------|-------|-----------------|
| | 41-37 | | | 43-43 | ② | | 61-33 | | | 62-20 | ③ | ● | 64- 9 | ④ |
| | 41-38 | | | 43-44 | ② | | 61-34 | | | 62-21 | ③ | | 71- 1 | |
| | 41-39 | ② | | 43-45 | ② | | 61-35 | | | 62-22 | ③ | | 71- 2 | |
| | 41-40 | | ● | 44- 1 | ④ | | 61-36 | | | 62-23 | ③ | | 71- 3 | ② |
| | 41-41 | | ● | 44- 2 | ④ | | 61-37 | | | 62-24 | ③ | | 73- 1 | ① |
| | 41-42 | | ● | 44- 3 | ④ | | 61-38 | | | 62-25 | ③ | | 73- 2 | ① |
| | 41-43 | | ● | 44- 4 | ④ | | 61-39 | | | 62-26 | ③ | | 73- 3 | ① |
| ● | 41-44 | ④ | | 44- 5 | | | 61-40 | | | 62-27 | ③ | | 73- 4 | ① |
| | 42- 1 | ③ | | 44- 6 | ② | | 61-41 | | | 62-28 | ③ | | 73- 5 | ① |
| | 42- 2 | ③ | | 44- 6-1 | ② | | 61-42 | | | 62-30 | ③ | | 73- 6 | ① |
| | 42- 3 | ③ | | 44- 7 | | | 61-43 | | | 62-31 | ③ | | 73- 7 | ① |
| | 42- 4 | ③ | | 44- 8 | | | 61-44 | | | 62-32 | ③ | | 73- 8 | ① |
| | 42- 5 | ③ | ● | 44- 9 | ④ | | 61-45 | | | 62-33 | ③ | | 73- 9 | ① |
| | 42- 6 | ③ | | 51- 1 | | | 61-46 | | | 62-34 | ③ | | 73-10 | ① |
| | 43- 1 | ② | | 51- 2 | ② | | 61-47 | | | 62-35 | ③ | | 73-11 | ① |
| | 43- 2 | ② | | 51- 3 | | | 61-48 | | | 62-36 | ③ | | 73-12 | ① |
| | 43- 3 | ② | | 51- 3-1 | ② | | 61-49 | | | 62-37 | ③ | | 73-13 | ① |
| | 43- 4 | ② | | 51- 3-2 | ② | | 61-50 | | | 63- 1 | ① | | 74- 1 | |
| | 43- 5 | ② | | 51- 4 | | | 61-51 | | | 63- 2 | ① | | 74- 2 | ② |
| | 43- 6 | ② | | 51- 5 | | | 61-52 | ② | | 63- 3 | ① | | 74- 3 | ② |
| | 43- 7 | ② | | 51- 6 | | | 61-53 | ② | | 63- 4 | ① | | 74- 4 | ② |
| | 43- 8 | ② | | 51- 7 | | | 61-53-1 | ② | | 63- 5 | ① | | 74- 5 | ② |
| | 43- 9 | ② | | 51- 8 | | | 61-53-2 | ② | | 63- 6 | ① | | 81- 1 | ② |
| | 43-10 | ② | | 51- 9 | | | 61-54 | ② | | 63- 7 | ① | | 81- 2 | ② |
| | 43-11 | ② | | 51-10 | | | 61-55 | | | 63- 8 | ① | | 81- 3 | ② |
| | 43-12 | ② | | 61- 1 | | | 61-56 | | | 63- 9 | ① | | 81- 4 | ② |
| | 43-13 | ② | | 61- 2 | | | 61-57 | | | 63-10 | ① | | 81- 5 | ② |
| | 43-14 | ② | | 61- 3 | ② | | 61-58 | ② | | 63-11 | ① | | | |
| | 43-15 | ② | | 61- 4 | ② | | 61-59 | ② | | 63-12 | ① | | | |
| | 43-16 | ② | | 61- 6 | | | 61-60 | ② | | 63-13 | ① | | | |
| | 43-17 | ② | | 61- 7 | ② | | 61-60-1 | ② | | 63-14 | ① | | | |
| | 43-18 | ② | | 61- 8 | | | 61-61 | | | 63-15 | ① | | | |
| | 43-19 | ② | | 61- 9 | ② | ● | 61-63 | ④ | | 63-16 | ① | | | |
| | 43-20 | ② | | 61-10 | ② | ● | 61-64 | ④ | | 63-17 | ① | | | |
| | 43-21 | ② | | 61-11 | ② | | 61-65 | | | 63-18 | ① | | | |
| | 43-22 | ② | | 61-12 | | ● | 61-66 | ④ | | 63-19 | ① | | | |
| | 43-23 | ② | | 61-13 | | ● | 61-67 | ④ | | 63-20 | ① | | | |
| | 43-24 | ② | ● | 61-14 | ④ | ● | 61-68 | ④ | | 63-21 | ① | | | |
| | 43-25 | ② | | 61-15 | | | 61-69 | | | 63-22 | ① | | | |
| | 43-26 | ② | | 61-16 | | | 62- 1 | ③ | | 63-23 | ① | | | |
| | 43-28 | ② | | 61-17 | | | 62- 3 | ③ | | 63-24 | ① | | | |
| | 43-29 | ② | | 61-18 | | | 62- 4 | ③ | | 63-25 | ① | | | |
| | 43-30 | ② | | 61-20 | | | 62- 5 | ③ | | 63-26 | ① | | | |
| | 43-31 | ② | | 61-21 | | | 62- 6 | ③ | | 63-27 | ① | | | |
| | 43-32 | ② | | 61-22 | | | 62- 7 | ③ | | 63-28 | ① | | | |
| | 43-33 | ② | | 61-23 | | | 62- 9 | ③ | | 63-29 | ① | | | |
| | 43-34 | ② | | 61-24 | | | 62-10 | ③ | | 63-30 | ① | | | |
| | 43-35 | ② | | 61-25 | | | 62-11 | ③ | | 63-31 | ① | | | |
| | 43-36 | ② | | 61-26 | | | 62-13 | ③ | | 64- 1 | | | | |
| | 43-37 | ② | | 61-27 | | | 62-14 | ③ | | 64- 2 | | | | |
| | 43-38 | ② | | 61-28 | | | 62-15 | ③ | | 64- 4 | | | | |
| | 43-39 | ② | | 61-29 | | | 62-16 | ③ | | 64- 5 | | | | |
| | 43-40 | ② | | 61-30 | | | 62-17 | ③ | | 64- 6 | | | | |
| | 43-41 | ② | | 61-31 | | | 62-18 | ③ | | 64- 7 | | | | |
| | 43-42 | ② | | 61-32 | | | 62-19 | ③ | ● | 64- 8 | ④ | | | |


020D03

SAFETY

SAFETY NOTICE

IMPORTANT SAFETY NOTICE

Proper service and repair is extremely important for safe machine operation. The service and repair techniques recommended by Komatsu and described in this manual are both effective and safe. Some of these techniques require the use of tools specially designed by Komatsu for the specific purpose.

To prevent injury to workers, the symbol  is used to mark safety precautions in this manual. The cautions accompanying these symbols should always be followed carefully. If any dangerous situation arises or may possibly arise, first consider safety, and take the necessary actions to deal with the situation.

GENERAL PRECAUTIONS

Mistakes in operation are extremely dangerous. Read the Operation and Maintenance Manual carefully BEFORE operating the machine.

1. Before carrying out any greasing or repairs, read all the precautions given on the decals which are fixed to the machine.
2. When carrying out any operation, always wear safety shoes and helmet. Do not wear loose work clothes, or clothes with buttons missing.
 - Always wear safety glasses when hitting parts with a hammer.
 - Always wear safety glasses when grinding parts with a grinder, etc.
3. If welding repairs are needed, always have a trained, experienced welder carry out the work. When carrying out welding work, always wear welding gloves, apron, glasses, cap and other clothes suited for welding work.
4. When carrying out any operation with two or more workers, always agree on the operating procedure before starting. Always inform your fellow workers before starting any step of the operation. Before starting work, hang UNDER REPAIR signs on the controls in the operator's compartment.
5. Keep all tools in good condition and learn the correct way to use them.
6. Decide a place in the repair workshop to keep tools and removed parts. Always keep the tools and parts in their correct places. Always keep the work area clean and make sure that there is no dirt or oil on the floor. Smoke only in the areas provided for smoking. Never smoke while working.

PREPARATIONS FOR WORK

7. Before adding oil or making any repairs, park the machine on hard, level ground, and block the wheels or tracks to prevent the machine from moving.
8. Before starting work, lower blade, ripper, bucket or any other work equipment to the ground. If this is not possible, insert the safety pin or use blocks to prevent the work equipment from falling. In addition, be sure to lock all the control levers and hang warning signs on them.
9. When disassembling or assembling, support the machine with blocks, jacks or stands before starting work.
10. Remove all mud and oil from the steps or other places used to get on and off the machine. Always use the handrails, ladders or steps when getting on or off the machine. Never jump on or off the machine. If it is impossible to use the handrails, ladders or steps, use a stand to provide safe footing.

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

<https://shopservicemanual.com/>

Service Manuals from 2\$