SEAM021700

Operation & Maintenance Manual

KOMATSU®

PC200Z-6

HYDRAULIC EXCAVATOR

SERIAL NUMBERS **PC200Z-6 - C10568** and up

May 1998

Copyright 1998 Komatsu America International Company

MidWestTech | Komatsu PC200Z-6 Hydraulic Excavator Operation & Maintenance Manual |... Order the manual at mid-west-tech.com >

5. CONTENTS

1. **Foreword** 0- 1

2. **Safety information** 0- 2

3. **Introduction** 0- 3

4. **Location of plates, table to enter serial No. and distributor** 0- 4

SAFETY

6. **General precautions** 1- 2

7. **Precautions during operation** 1-10
   - 7.1 Before starting engine 1-10
   - 7.2 After starting engine 1-12
   - 7.3 Transportation 1-19
   - 7.4 Battery 1-20
   - 7.5 Towing 1-22
   - 7.6 Lifting operations 1-22
   - 7.7 Bucket with hook 1-23

8. **Precautions for maintenance** 1-25
   - 8.1 Before carrying out maintenance 1-25
   - 8.2 During maintenance 1-29

9. **Position for attaching safety labels** 1-35

OPERATION

10. **General view** 2- 2
   - 10.1 General view of machine 2- 2
   - 10.2 General view of controls and gauges 2- 3

11. **Explanation of components** 2- 4
   - 11.1 Machine monitor 2- 4
   - 11.2 Switches 2- 9
   - 11.3 Control levers and pedals 2-13
   - 11.4 Ceiling window 2-18
   - 11.5 Front window 2-19
   - 11.6 Door lock 2-21
   - 11.7 Ashtray 2-21
   - 11.8 Cap, cover with lock 2-22
   - 11.9 Handling car heater 2-23
   - 11.10 Fuse 2-24
   - 11.11 Fusible link 2-25
   - 11.12 Tool box 2-25
   - 11.13 Grease pump holder 2-25
   - 11.14 Handling accumulator 2-26

MidWestTech | Komatsu PC200Z-6 Hydraulic Excavator Operation & Maintenance Manual |... Order the manual at mid-west-tech.com >

12. Operation 2-27
12.1 Check before starting engine 2-27
12.2 Starting engine 2-37
12.3 Operations and checks after starting engine 2-39
12.4 Moving machine off 2-41
12.5 Steering machine 2-44
12.6 Stopping machine 2-46
12.7 Swinging 2-47
12.8 Operation of work equipment 2-48
12.9 Prohibitions for operation 2-49
12.10 Precautions for operation 2-51
12.11 Precautions when traveling up or down hills 2-52
12.12 How to escape from mud 2-54
12.13 Work possible using hydraulic excavator 2-55
12.14 Replacement and inversion of bucket 2-56
12.15 Parking machine 2-58
12.16 Check after finishing work 2-59
12.17 Stopping engine 2-60
12.18 Check after stopping engine 2-61
12.19 Locking 2-61

13. Transportation 2-62
13.1 Loading, unloading work 2-62
13.2 Precautions for loading 2-64
13.3 Precautions for transportation 2-65

14. Cold weather operation 2-66
14.1 Precautions for low temperature 2-66
14.2 Precautions after completion of work 2-68
14.3 After cold weather 2-68

15. Long-term storage 2-69
15.1 Before storage 2-69
15.2 During storage 2-70
15.3 After storage 2-70
15.4 Starting machine after long-term storage 2-70

16. Troubleshooting 2-71
16.1 Phenomena that are not failures 2-71
16.2 Method of towing machine 2-71
16.3 Using method for light-weight towing hole 2-71
16.4 Precautions on particular jobsites 2-72
16.5 If battery is discharged 2-72
16.6 Other trouble 2-76

MidWestTech | Komatsu PC200Z-6 Hydraulic Excavator Operation & Maintenance Manual |... Order the manual at mid-west-tech.com >

MAINTENANCE

17. Guides to maintenance 3- 2

18. Outlines of service 3- 5
18.1 Outline of oil, fuel, coolant 3- 5
18.2 Outline of electric system 3- 8
18.3 Outline of hydraulic system 3- 9

19. Wear parts list 3-10

20. Use of fuel, coolant and lubricants according to ambient temperature 3-11

21. Standard tightening torques for bolts and nuts 3-16
21.1 Introduction of necessary tools 3-16
21.2 Torque list 3-17

22. Periodic replacement of safety critical parts 3-18

23. Maintenance schedule chart 3-22
23.1 Maintenance schedule chart 3-22
23.2 Maintenance interval when using hydraulic breaker 3-24

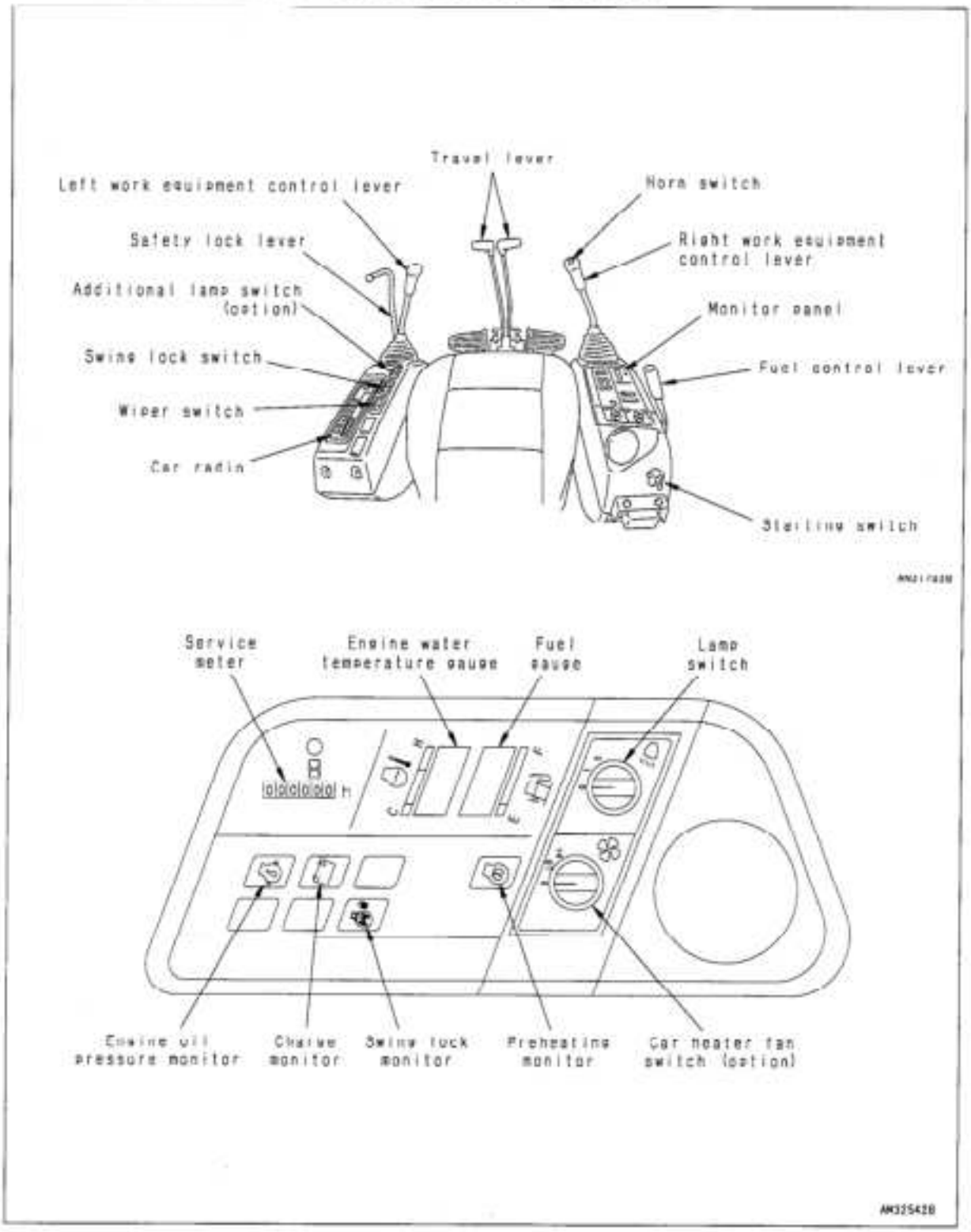
24. Service Procedure 3-25
24.1 Initial 250 hours service 3-25
24.2 When required 3-26
24.3 Check before starting 3-45
24.4 Every 100 hours service 3-50
24.5 Every 250 hours service 3-53
24.6 Every 500 hours service 3-59
24.7 Every 1000 hours service 3-64
24.8 Every 2000 hours service 3-67
24.9 Every 4000 hours service 3-70
24.10 Every 5000 hours service 3-71

SPECIFICATIONS

25. Specifications 4- 2

MidWestTech | Komatsu PC200Z-6 Hydraulic Excavator Operation & Maintenance Manual |... Order the manual at mid-west-tech.com >

10.2 GENERAL VIEW OF CONTROLS AND GAUGES



MidWestTech | Komatsu PC200Z-6 Hydraulic Excavator Operation & Maintenance Manual |... Order the manual at mid-west-tech.com >

24.6 EVERY 500 HOURS SERVICE

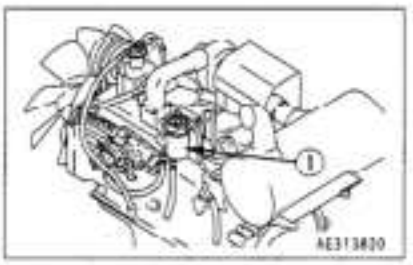
Maintenance for every 100 and 250 hours should be carried out at the same time.

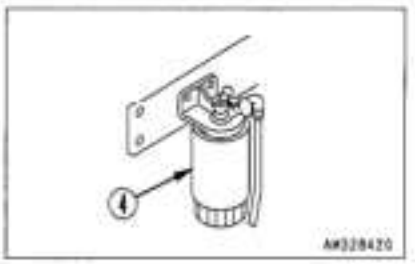
24.6.1 REPLACE FUEL FILTER CARTRIDGE AND ADDITIONAL FUEL FILTER CARTRIDGE

⚠WARNING

- **Engine is at high temperature immediately after the machine has been operated. Wait for engine to cool down before replacing the filter.**
- **Do not bring fire or sparks near the fuel.**

Prepare a filter wrench and a container to catch the fuel.





1. Set the container to catch the fuel under the filter cartridge.
2. Using a filter wrench, turn filter cartridge ① and ④ counterclockwise to remove it.
3. Clean the filter holder, fill a new filter cartridge ① with clean fuel, coat the packing surface with engine oil, then install it to the filter holder.
4. When installing, tighten until the packing surface contacts the seal surface of the filter holder, then tighten it up 1/2 of a turn.
5. Clean the additional filter holder, fill a new additional cartridge ④ with clean fuel, coat the packing surface with engine oil, then install it to the filter holder.
6. When installing, tighten until the packing surface contacts the seal surface of the additional filter holder then tighten it up 2/3 of a turn.

   If the filter cartridge is tightened too far, the packing will be damaged and this will lead to leakage of fuel. If the filter cartridge is too loose, fuel will also leak from the packing, so always tighten to the correct amount.
7. After replacing the fuel filter cartridge, bleed the air.
   Bleed the air according to the following procedures.

MidWestTech | Komatsu PC200Z-6 Hydraulic Excavator Operation & Maintenance Manual |... Order the manual at mid-west-tech.com >

25. SPECIFICATIONS

PC200-6Z

	PC200-6Z
WEIGHT	
• Operating weight (without operator)	19800 kg (43660 lb)
PERFORMANCE	
• Bucket capacity	See 30.2 BUCKET INSTALLATION COMBINATIONS on page 5-16
• Travel speed	3.8 km/h (2.4 MPH)
• Swing speed	12.4 rpm
TRACK SHOE	
• Triple grouser shoe (standard)	800 mm (31.5 in) width
ENGINE	
• Model	Komatsu S6D102E-1 diesel engine
• Flywheel horsepower	96 kW (128 HP)/2000 rpm – net 102 kW (135 HP)/2000 rpm – gross
• Starting motor	24 V 5.5 kW
• Alternator	24 V 60 A
• Battery	12 V 150 Ah x 2 pieces

MidWestTech | Komatsu PC200Z-6 Hydraulic Excavator Operation & Maintenance Manual |... Order the manual at mid-west-tech.com >