SEAM007202

Operation & Maintenance Manual

KOMATSU®

D65EX-12
D65PX-12

BULLDOZER

SERIAL NUMBERS D65EX-12 -60942 and up
D65PX-12 -60915

FEB 1995

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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- 9
   - 7.1 Before starting engine 1- 9
   - 7.2 Operating machine 1-11
   - 7.3 Transportation 1-14
   - 7.4 Battery 1-15
   - 7.5 Towing 1-16

8. **Precautions for maintenance** 1-17
   - 8.1 Before carrying out maintenance 1-17
   - 8.2 During maintenance 1-19

9. **Position for attaching safety labels** 1-24
   - 9.1 Position for attaching safety labels 1-24

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- 6
   - 11.1 Front panel (meters, lamps, switches) 2- 7
   - 11.2 Switches 2-20
   - 11.3 Control levers, pedals 2-23
   - 11.4 Fuse box 2-30
   - 11.5 Grease pump holder 2-31
   - 11.6 Shovel holder 2-31
   - 11.7 Door-open lock (machines equipped with cab) 2-31
   - 11.8 Sash glass intermediate lock (machines equipped with cab) 2-32
   - 11.9 Cap with lock 2-32
   - 11.10 Hot and cool box (machines equipped with cab) 2-33
   - 11.11 Door pocket (machines equipped with cab) 2-33
   - 11.12 Ashtray (machines equipped with cab) 2-33
   - 11.13 Tool box 2-33
   - 11.14 Using car radio (machines equipped with cab, car radio) 2-34
   - 11.15 Handling air conditioner (machines equipped with cab) 2-38
   - 11.16 Handling heater (machines equipped with cab) 2-42

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12. Operation 2-43
12.1 Check before starting engine 2-43
12.2 Starting engine 2-52
12.3 Operations and checks after starting engine 2-58
12.4 Moving machine 2-60
12.5 Shifting gear 2-61
12.6 Shifting between forward and reverse 2-62
12.7 Steering machine 2-63
12.8 Stopping machine 2-66
12.9 Precautions for operation 2-67
12.10 Parking machine 2-69
12.11 Check after finishing work 2-70
12.12 Stopping engine 2-71
12.13 Check after stopping engine 2-72
12.14 Locking 2-72
12.15 Work possible using bulldozer 2-73
12.16 Adjusting posture of work equipment 2-74
12.17 Tips for longer undercarriage life 2-77

13. Transportation 2-80
13.1 Loading, unloading work 2-80
13.2 Precautions for loading, and securing the machine 2-81
13.3 Precautions for transportation 2-82
13.4 Precautions when removing work equipment 2-82
13.5 Removing cab (machines equipped with cab) 2-82
13.6 Lifting the machine 2-83

14. Cold weather operation 2-86
14.1 Precautions for low temperature 2-86
14.2 After completion of work 2-88
14.3 After cold weather 2-88

15. Long-term storage 2-89
15.1 Before storage 2-89
15.2 During storage 2-89
15.3 After storage 2-89

16. Troubleshooting 2-90
16.1 After running out of fuel 2-90
16.2 If battery is discharged 2-90
16.3 Other trouble 2-93

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MAINTENANCE

17. Guides to maintenance 3- 2

18. Outlines of service 3- 5
18.1 Outline of oil, fuel, coolant 3- 5
18.2 Relating to electric system 3- 7

19. Wear parts list 3- 8

20. Use of fuel, coolant and lubricants according to ambient temperature 3-10

21. Standard tightening torques for bolts and nuts 3-14
21.1 Introduction of necessary tools 3-14
21.2 Torque list 3-15

22. Periodic replacement of safety critical parts 3-16

23. Maintenance schedule chart 3-19

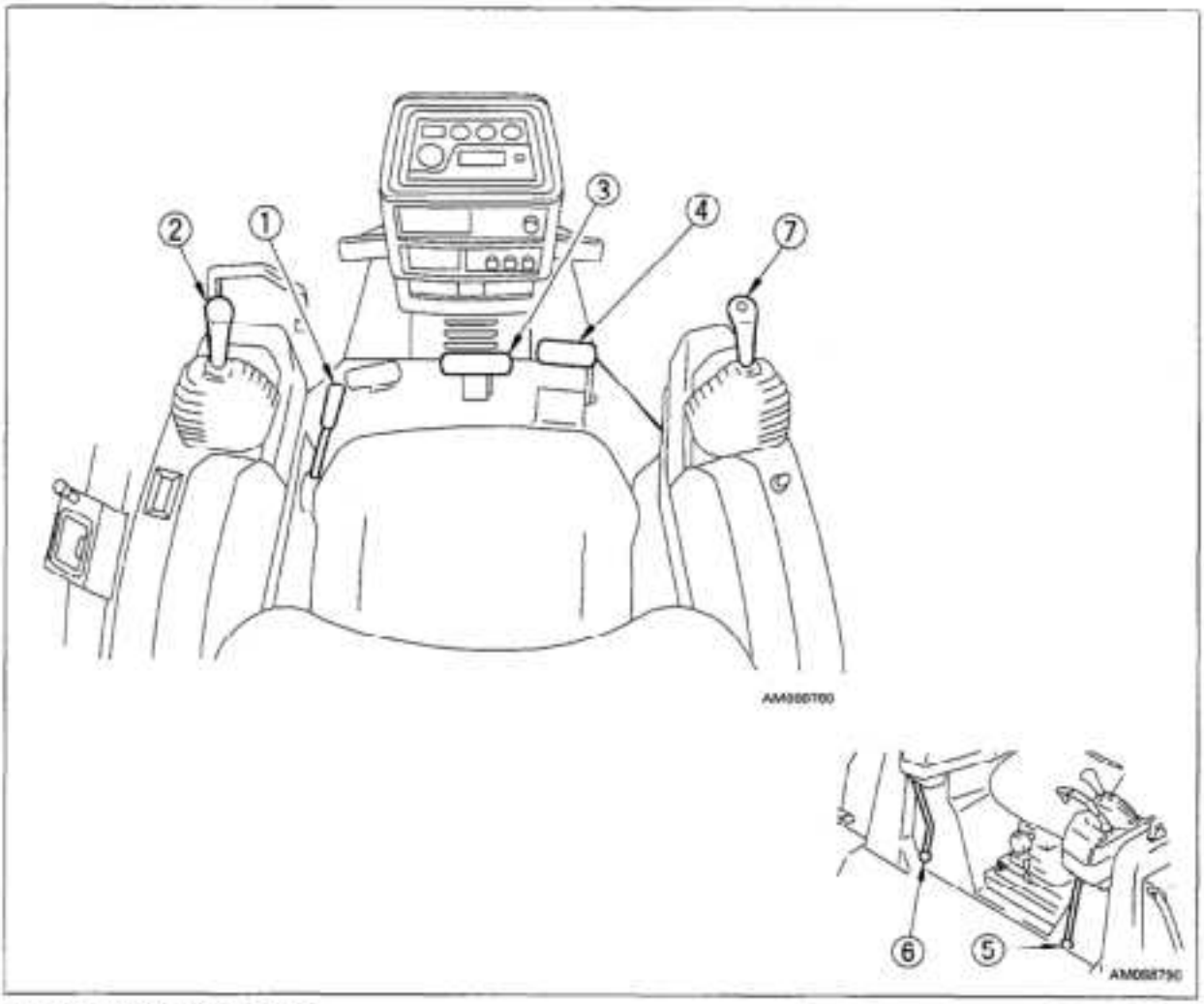
24. Service Procedure 3-22
24.1 When required 3-22
24.2 Check before starting 3-41
24.3 Every 50 hours service 3-45
24.4 Every 250 hours service 3-46
24.5 Every 500 hours service 3-56
24.6 Every 1000 hours service 3-60
24.7 Every 2000 hours service 3-65
24.8 Every 4000 hours service 3-68

SPECIFICATIONS

25. Specifications 4- 2

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11.3 CONTROL LEVERS, PEDALS



1. FUEL CONTROL LEVER

This lever is used to control the engine speed and output.

① Engine stop position: Push the lever forward fully.
② Low idling position: Pull the lever from engine stop position ① until you feel the operating force falls off.
③ High idling position: Pull the lever fully from low idling position

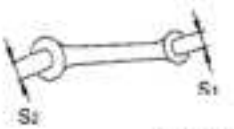


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21. STANDARD TIGHTENING TORQUES FOR BOLTS AND NUTS

21.1 INTRODUCTION OF NECESSARY TOOLS

The following tools are needed when carrying out maintenance.

No.	Name of tool	Part No.	Remarks
1	Wrench set	09000-30006	Applicable width across flats (S_1 – S_2) 8 mm – 10 mm, 12 mm – 14 mm 13 mm – 17 mm, 19 mm – 22 mm 24 mm – 27 mm, 30 mm – 32 mm 
2	Screwdriver	09033-00190	Interchangeable flat-head and cross-head type
3	Socket wrench set	09020-10286	Applicable width across flats 10 mm, 13 mm 14 mm, 17 mm 19 mm, 22 mm, 24 mm. Extension, Handle
4	Socket	09021-03653	Applicable width across flats 36 mm for mounting trunnion
5	Handle	09024-00300	
6	Filter wrench	09019-08035	For filter cartridges
7	Socket	09084-01422	For corrosion resistor
8	Grease pump	07952-70002	For greasing work
9	Grease cartridge	07950-90403	(Lithium base grease, 400 g)

If any of the above tools are broken, please order them from your Komatsu distributor.

When not using the tools, always put them in the tool box on the inside of the battery inspection cover on the left side of the machine. See "11.13 TOOL BOX".

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24.5 EVERY 500 HOURS SERVICE

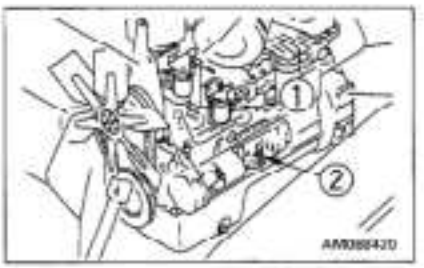
Maintenance for every 50 and 250 hours service should be carried out at the same time.

24.5.1 REPLACE 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 counterclockwise to remove it.
3. Clean the filter holder, fill a new filter cartridge 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 to 3/4 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.
5. Loosen the knob of feed pump ② and operate it 50 – 60 times up and down. This will bleed the air.
6. Push in the knob of feed pump ② and tighten it.
7. After replacing the filter cartridge, start the engine and check that there is no leakage of fuel from the filter seal surface. If there is any leakage of fuel, check the tightening of the filter cartridge. Whenever there is leakage of fuel, follow Steps 1 and 2 to remove the filter cartridge, then check the packing surface for damage or foreign material. If any damage or foreign material is found in the packing, replace the packing with a new part, then repeat Steps 3 – 6 to install the filter cartridge.

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