SEAM007104

# Operation & Maintenance Manual

KOMATSU®

# D65E-12
# D65P-12

## BULLDOZER

SERIAL NUMBERS D65E-12 - 61441 and up
D65P-12 - 61365

May 1997

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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- 7
   - 7.1 Before starting engine ..... 1- 7
   - 7.2 After starting engine ..... 1- 9
   - 7.3 Transportation ..... 1-15
   - 7.4 Battery ..... 1-16
   - 7.5 Towing ..... 1-18

8. **Precautions for maintenance** ..... 1-19
   - 8.1 Before carrying out maintenance ..... 1-19
   - 8.2 During maintenance ..... 1-23

9. **Position for attaching safety labels** ..... 1-28
   - 9.1 Position for attaching safety labels ..... 1-28


## 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 Power pickup connectors ..... 2-31
   - 11.6 Grease pump holder ..... 2-32
   - 11.7 Shovel holder ..... 2-32
   - 11.8 Door-open lock (machines equipped with cab) ..... 2-32
   - 11.9 Sash glass intermediate lock (machines equipped with cab) ..... 2-33
   - 11.10 Cap with lock ..... 2-33
   - 11.11 Hot and cool box (machines equipped with cab) ..... 2-34
   - 11.12 Door pocket (machines equipped with cab) ..... 2-34
   - 11.13 Ashtray (machines equipped with cab) ..... 2-34
   - 11.14 Tool box ..... 2-34
   - 11.15 Using car radio (machines equipped with cab, car radio) ..... 2-35
   - 11.16 Handling air conditioner (machines equipped with cab) ..... 2-39
   - 11.17 Handling heater (machines equipped with cab) ..... 2-43




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**12. Operation** ..... 2-44
12.1 Check before starting engine ..... 2-44
12.2 Starting engine ..... 2-56
12.3 Operations and checks after starting engine ..... 2-62
12.4 Moving machine ..... 2-64
12.5 Shifting gear ..... 2-65
12.6 Shifting between forward and reverse ..... 2-66
12.7 Steering machine ..... 2-67
12.8 Stopping machine ..... 2-69
12.9 Precautions for operation ..... 2-70
12.10 Parking machine ..... 2-72
12.11 Check after finishing work ..... 2-73
12.12 Stopping engine ..... 2-74
12.13 Check after stopping engine ..... 2-75
12.14 Locking ..... 2-75
12.15 Work possible using bulldozer ..... 2-76
12.16 Adjusting posture of work equipment ..... 2-77
12.17 Tips for longer undercarriage life ..... 2-80

**13. Transportation** ..... 2-83
13.1 Loading, unloading work ..... 2-83
13.2 Precautions for loading, and securing the machine ..... 2-84
13.3 Precautions for transportation ..... 2-85
13.4 Precautions when removing work equipment ..... 2-85
13.5 Removing cab (machines equipped with cab) ..... 2-85
13.6 Lifting the machine ..... 2-86

**14. Cold weather operation** ..... 2-89
14.1 Precautions for low temperature ..... 2-89
14.2 After completion of work ..... 2-91
14.3 After cold weather ..... 2-91

**15. Long-term storage** ..... 2-92
15.1 Before storage ..... 2-92
15.2 During storage ..... 2-92
15.3 After storage ..... 2-92

**16. Troubleshooting** ..... 2-93
16.1 After running out of fuel ..... 2-93
16.2 If battery is discharged ..... 2-93
16.3 Other trouble ..... 2-96



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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** ..... 3-18

**24. Service Procedure** ..... 3-21
24.1 When required ..... 3-21
24.2 Check before starting ..... 3-42
24.3 Every 50 hours service ..... 3-47
24.4 Every 250 hours service ..... 3-48
24.5 Every 500 hours service ..... 3-58
24.6 Every 1000 hours service ..... 3-62
24.7 Every 2000 hours service ..... 3-67
24.8 Every 4000 hours service ..... 3-70


## SPECIFICATIONS


**25. Specifications** ..... 4- 2

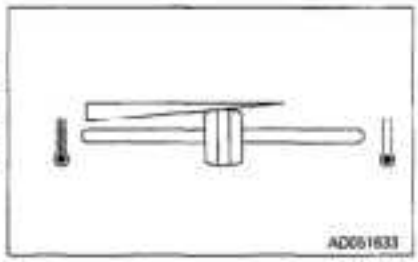



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### 3. TEMPERATURE CONTROL LEVER

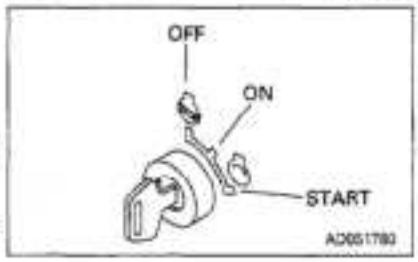
This is used to control the temperature for heating.

- When the temperature control lever is moved to the right, the temperature of the air coming from the vents becomes lower.
- When the temperature control lever is moved to the left, the temperature of the air coming from the vents becomes higher.




### 4. STARTING SWITCH

This switch is used to start the engine.




OFF ( ) position:

At this position, the starting switch key can be inserted or removed. When the switch is turned to this position, the electrical circuits are switched off.

Do not the starting switch key at the OFF position while the engine is running.

ON position:

In this position, electric current flows in the charging and lamp circuits.

Keep the starting switch key at the ON position while the engine is running.

START ( ) position:

This is the position to start the engine. Hold the key at this position while cranking. Release the key immediately after the engine has been started. The key will return to ON position when released.

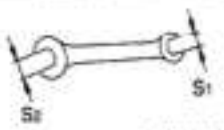


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# 21. STANDARD TIGHTENING TORQUES FOR BOLTS AND NUTS

## 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 ($S_1$ – $S_2$)<br>8 mm – 10 mm, 12 mm – 14 mm<br>13 mm – 17 mm, 19 mm – 22 mm<br>24 mm – 27 mm, 30 mm – 32 mm<br> |
| 2 | Screwdriver | 09033-00190 | Interchangeable flat-head and cross-head type |
| 3 | Socket wrench set | 09020-10285 | Applicable width across flats<br>10 mm, 13 mm<br>14 mm, 17 mm<br>19 mm, 22 mm, 24 mm,<br>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 (D65P) |
| 8 | Grease pump | 07952-70002 | For greasing work |
| 9 | Grease cartridge | 07950-90403 | (Lithium base grease, 400 g) |

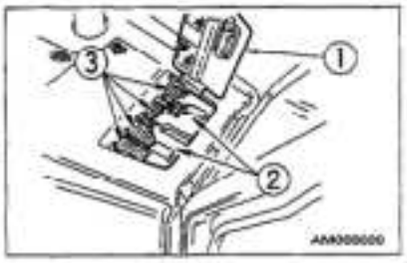
If any of the above tools are broken, please order them from your Komatsu distributor.

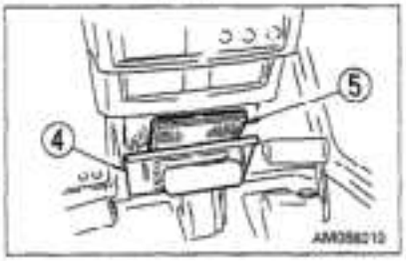
When not using the tools, always put them in the tool box on the inside of the battery inspection cover on the left side of the machine. See "11.13 TOOL BOX".



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## 24.1.10 CLEAN AIR CONDITIONER AIR FILTER (FRESH/RECIRC FILTER) (MACHINES EQUIPPED WITH CAB)




If the air conditioner air filter is clogged or there is dirt or dust in it, clean the filter.

1. Open inspection cover ①, open cover ②, then remove FRESH filter ③.
2. Open inspection cover ④ under the front panel, pull up RECIRC filter ⑤, and remove it.
3. Clean filters ③ and ⑤ with compressed air. If there is oil stuck to the filter, or it is extremely dirty, wash it in a neutral agent. After washing it, dry it completely before installing it again. If the clogging of the filter cannot be removed by washing or using compressed air, replace the filter with a new part.

If it is impossible to remove the dirt clogging the filter by cleaning with air or water, replace with a new filter.



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