EEAM010501

# Operation & Maintenance Manual

# PW170ES-6

## WHEELED EXCAVATOR

SERIAL NUMBERS **PW170ES-6K -K30001** and up

September 1999

KOMATSU®

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# 5. CONTENTS


1. Foreword ..... 0-1

2. Safety information ..... 0-2

3. Introduction ..... 0-4

4. Location of plates, table to enter serial No. and distributor ..... 0-5

**SAFETY** ..... 1-1

6. General Precautions ..... 1-2

7. Precautions during operation ..... 1-8
   - 7.1 Before starting engine ..... 1-8
   - 7.2 Operating machine ..... 1-10
   - 7.3 Transportation ..... 1-15
   - 7.4 Battery ..... 1-16
   - 7.5 Towing ..... 1-17
   - 7.6 Bucket with hook ..... 1-18

8. Precautions for maintenance ..... 1-21
   - 8.1 Before carrying out maintenance ..... 1-21
   - 8.2 During maintenance ..... 1-24

9. Position for attaching safety labels ..... 1-28
   - 9a Lifting capacities ..... 1-33

**OPERATION** ..... 2-1

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
    - 11.1 Machine monitor ..... 2-4
    - 11.2 Switches ..... 2-15
    - 11.3 Control levers, pedals ..... 2-24
    - 11.4 Roof hatch ..... 2-26
    - 11.5 Front window ..... 2-27
    - 11.6 Door lock ..... 2-29
    - 11.7 Cap, cover with lock ..... 2-30
    - 11.8 Fuse ..... 2-31
    - 11.9 Luggage tray ..... 2-32
    - 11.10 Ashtray ..... 2-32
    - 11.11 Heater ..... 2-32
    - 11.12 Air conditioner ..... 2-33
    - 11.13 Fusible link ..... 2-36
    - 11.14 Controller ..... 2-36
    - 11.15 Toolbox ..... 2-36
    - 11.16 Refuelling pump ..... 2-36
    - 11.17 Cab radio ..... 2-37
    - 11.18 Warning lamps ..... 2-41
    - 11.19 Handling the accumulators ..... 2-42
    - 11.20 Warning lamps ..... 2-44
    - 11.21 Handling the accumulators ..... 2-45





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12. Operation
12.1 Check before starting engine ..... 2-47
12.2 Starting engine ..... 2-57
12.3 Operations and checks after starting engine ..... 2-60
12.4 Moving machine off ..... 2-66
12.5 Steering machine ..... 2-69
12.6 Stopping machine ..... 2-70
12.7 Swinging ..... 2-71
12.8 Operation of work equipment ..... 2-72
12.9 Working mode selection ..... 2-73
12.10 Prohibitions for operation ..... 2-75
12.11 Precaution for operation ..... 2-77
12.12 Precaution when travelling up or down hills ..... 2-78
12.13 How to escape from mud ..... 2-80
12.14 Work possible using hydraulic excavator ..... 2-81
12.15 Replacement and inversion of bucket ..... 2-82
12.16 Parking the machine ..... 2-84
12.17 Check after finishing work ..... 2-85
12.18 Stopping engine ..... 2-86
12.19 Check after stopping engine ..... 2-87
12.20 Locking ..... 2-87
12.21 Handling the wheels ..... 2-88

13. Transportation
13.1 Loading, unloading work ..... 2-93
13.2 Precautions for loading ..... 2-95
13.3 Precautions for transportation ..... 2-96
13.4 Travelling posture ..... 2-98

14. Cold weather operation
14.1 Precaution for low temperature ..... 2-100
14.2 Precautions after completion of work ..... 2-101
14.3 After cold weather ..... 2-101

15. Long-term storage
15.1 Before storage ..... 2-102
15.2 During storage ..... 2-102
15.3 After storage ..... 2-103
15.4 Starting machine after long-term storage ..... 2-103

16. Troubleshooting
16.1 Phenomena that are not failures ..... 2-104
16.2 Method of towing machine ..... 2-104
16.3 Precautions on particular jobsites ..... 2-105
16.4 If battery is discharged ..... 2-105
16.5 Other trouble ..... 2-109



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## MAINTENANCE

17. Guides to maintenance ..... 3-2

18. Outlines of service ..... 3-4
18.1 Outline of oil, fuel, coolant ..... 3-5
18.2 Outline of electric system ..... 3-7
18.3 Outline of hydraulic system ..... 3-8

19. Wear parts list ..... 3-9

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
23.1 Maintenance schedule chart ..... 3-18
23.2 Maintenance interval when using hydraulic breaker ..... 3-20
23.3 Explanation of lubrication decal ..... 3-21

24. Service procedure ..... 3-24
24.1 When required ..... 3-24
24.2 Check before starting ..... 3-43
24.3 Every 100 hours service ..... 3-49
24.4 Every 250 hours service ..... 3-54
24.5 Every 500 hours service ..... 3-62
24.6 Every 1000 hours service ..... 3-68
24.7 Every 2000 hours service ..... 3-73
24.8 Every 4000 hours ..... 3-79

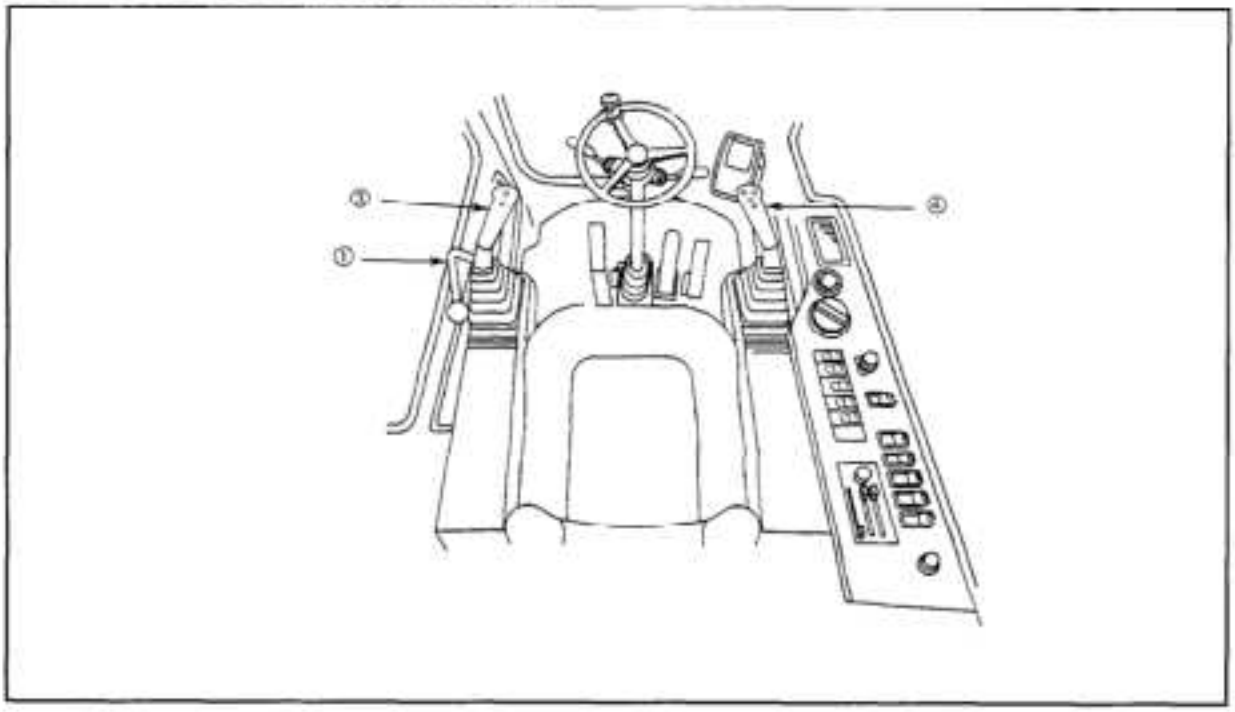
## SPECIFICATIONS

25. SPECIFICATIONS ..... 4-2
25.1 Machine specifications ..... 4-3



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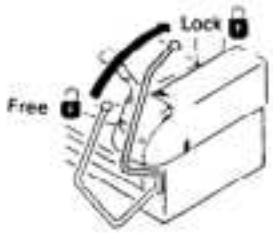
## 11.3 CONTROL LEVERS, PEDALS



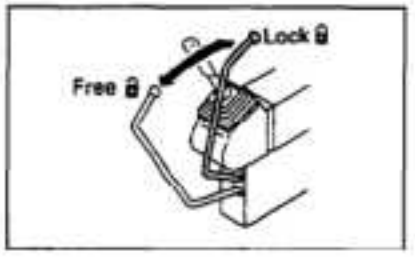

### 1. SAFETY LOCK LEVER

**⚠ WARNING**

- **When leaving the operator's compartment, set the safety lock lever securely to the LOCK position. If the control levers are not locked, and they are touched by mistake, this may lead to a serious accident.**
  **If the safety lock lever is not placed securely in the LOCK position, the control levers may not be properly locked. Check that the situation is as shown in the diagram.**
- **When the safety lock lever is raised, take care not to touch the work equipment control lever. If the safety lock lever is not properly locked at the upper position, the work equipment and swing will move, creating a potentially dangerous situation.**
- **When the safety lock lever is lowered, take care not to touch the work equipment control lever.**




This lever locks the work equipment, swing and attachment controls.
This lock lever is a hydraulic lock, so even if it is in the lock position, the work equipment control lever will move, but the work equipment and swing motor will not work.






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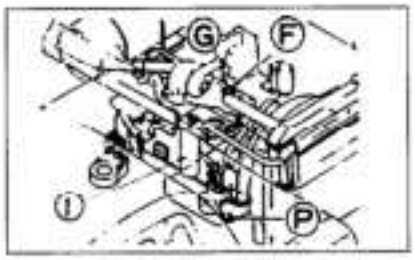
## 24.5.3 CHANGE OIL IN ENGINE OIL PAN, REPLACE ENGINE OIL FILTER CARTRIDGE

**Perform this maintenance every 500 hours on machines equipped with bypass filter.**

**⚠WARNING**

**The oil is at high temperature after the engine has been operated, so never change the oil immediately after finishing operations. Wait for the oil to cool down before changing it.**

Prepare the following
- Container to catch drained oil: Min 17.0 ℓ capacity
- Refill capacity: 16 ℓ
- Filter wrench




1. Remove the inspection cover of the undercover directly under drain plug Ⓟ under the machine, then place a container to catch the oil.
2. Lower the lever of drain valve Ⓟ slowly to to prevent getting oil on yourself, and drain the oil. After draining the oil, raise the lever to close the valve.
3. Check the drained oil, and if there are excessive metal particles or foreign material, please contact your distributor.
4. Tighten drain valve Ⓟ.
5. Using the filter wrench from the lower side of the engine, turn filter cartridge ① counterclockwise to remove it.
   In particular, if this operation is carried out immediately after stopping the engine, a large amount of oil will come out, so wait for 10 minutes before starting the operation.
6. Clean the filter holder.

**REMARK**

Confirm that no remnants of old packing still adhere to the filter holder as this may result in oil leakage.

**NOTICE: Do not tighten filter or use any tools for installation because this can damage the gasket and filter.**

7. Fill the new filter with clean oil.
8. Install the new filter by applying a little engine oil to the seal and thread the filter on by hand by turning it clockwise until hand tight.
9. After replacing the filter cartridge, add engine oil throughoil filler Ⓕ until the oil level is between the H and L marks on dipstick Ⓖ.

For details of the oil to use, see 20 "USE OF FUEL, COOLANT AND LUBRICANTS ACCORDING TO AMBIENT TEMPERATURE" on page 3-12.

**NOTICE**

**Even if the machine has not been operated for 500 hours, the oil and filter cartridge must be replaced when the machine has been operated for 6 months.**

**In the same way, even if the machine has not been operated for 6 months, the oil and filter cartidge must be replaced when the machine has been operated for 500 hurs.**



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# 25. SPECIFICATIONS

| | | |
|---|---|---|
| **WEIGHT** | | |
| • Operating weight (without operator) | | * 15900 kg (35060 lb) |
| **PERFORMANCE** | | |
| • Bucket capacity (standard bucket) SAE/CECE | | 0.63 m³ (0.82 cu.Yd)/0.57 m³ |
| • With of opening | (Standard bucket) | 900 mm (35.4 in) |
| | (With side cutter) | 1000 mm (39.4 in) |
| • Travel speed | Low speed | 3.5 km/h |
| | Middle speed | 10 km/h |
| | High speed | 30 km/h (20 km/h)** |
| • Swing speed | | 12.5 rpm |
| **ENGINE** | | |
| • Model | | S4D102E |
| • Flywheel Horsepower | | 92 kW (123 HP)/2200 rpm |
| • Starting motor | | 24 V 5.5 kW |
| • Alternator | | 24V 30A |
| • Battery | | 12V 95 Ah x 2 pieces |

* Weight may very depending on specification
** For 20 km/h specification versionn



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