SEAM038301T

# Operation & Maintenance Manual

KOMATSU®

avance LOADER

# WA120L-3MC

## WHEEL LOADER

SERIAL NUMBERS WA120L-3MC 54104 and up

February 2002

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# 5. CONTENTS


1. **Foreword** ..... 0- 1

2. **Safety information** ..... 0- 4

3. **Introduction** ..... 0- 5

4. **Location of plates, table to enter serial No. and distributor** ..... 0- 6


## 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 ..... 1-17
   - 7.4 Battery ..... 1-18
   - 7.5 Towing ..... 1-20

8. **Precautions for maintenance** ..... 1-21
   - 8.1 Before carrying out maintenance ..... 1-21
   - 8.2 During maintenance ..... 1-26
   - 8.3 Tires ..... 1-32

9. **Position for attaching safety labels** ..... 1-34


## 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 Meter, lamps ..... 2- 6
    - 11.2 Switches ..... 2-10
    - 11.3 Control levers, pedals ..... 2-16
    - 11.4 Cap with lock ..... 2-21
    - 11.5 Safety bar ..... 2-22
    - 11.6 Towing pin ..... 2-22
    - 11.7 Grease pump clamp and rubber ring ..... 2-22
    - 11.8 Buckup alarm ..... 2-23
    - 11.9 Fuse ..... 2-24
    - 11.10 Slow-blow fuse ..... 2-25
    - 11.11 Manual pocket ..... 2-26
    - 11.12 Power supply socket ..... 2-26




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**12. Operation** ..... 2-27
12.1 Check before starting engine ..... 2-27
12.2 Starting engine ..... 2-43
12.3 Operations and checks after starting engine ..... 2-44
12.4 Moving machine off ..... 2-45
12.5 Changing gear speed ..... 2-46
12.6 Changing direction ..... 2-47
12.7 Turning ..... 2-48
12.8 Stopping machine ..... 2-49
12.9 Operation of work equipment ..... 2-50
12.10 Work possible using wheel loader ..... 2-51
12.11 Precautions for operation ..... 2-55
12.12 Adjusting work equipment posture ..... 2-57
12.13 Parking machine ..... 2-59
12.14 Checks after completion of operation ..... 2-61
12.15 Stopping engine ..... 2-61
12.16 Check after stopping engine ..... 2-62
12.17 Locking ..... 2-62
12.18 Handling the tires ..... 2-63

**13. Transportation** ..... 2-65
13.1 Loading, unloading work ..... 2-65
13.2 Precautions for loading ..... 2-66
13.3 Lifting machine ..... 2-66
13.4 Precautions for transportation ..... 2-69

**14. Cold weather operation** ..... 2-70
14.1 Precautions for low temperature ..... 2-70
14.2 Precautions after completion of work ..... 2-72
14.3 After cold weather ..... 2-72

**15. Long-term storage** ..... 2-73
15.1 Before storage ..... 2-73
15.2 During storage ..... 2-73
15.3 After storage ..... 2-73

**16. Troubleshooting** ..... 2-74
16.1 When machine runs out of fuel ..... 2-74
16.2 Towing the machine ..... 2-74
16.3 If battery is discharged ..... 2-78
16.4 Other trouble ..... 2-82



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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 Outline of electric 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

**24. Service Procedure** ..... 3-21
24.1 Initial 250 hours service ..... 3-21
24.2 When required ..... 3-22
24.3 Check before starting ..... 3-40
24.4 Every 50 hours service ..... 3-41
24.5 Every 100 hours service ..... 3-42
24.6 Every 250 hours service ..... 3-45
24.7 Every 500 hours service ..... 3-50
24.8 Every 1000 hours service ..... 3-53
24.9 Every 2000 hours service ..... 3-60
24.10 Every 4000 hours service ..... 3-63

## SPECIFICATIONS

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



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## 12.9 OPERATION OF WORK EQUIPMENT

Work equipment control lever ① can be used to operate the lift arm and bucket as follows.




### LIFT ARM OPERATION

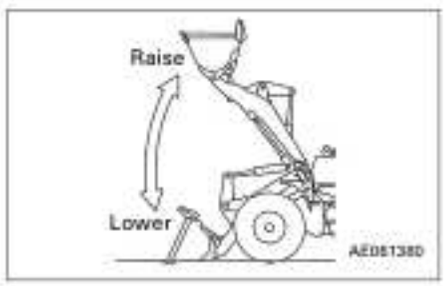
① Raise ( )
② Hold ( ): The lift arm is kept in the same position.
③ Lower ( )
④ Float ( ): The lift arm moves freely under external force.




When the work equipment control lever is pulled further from the raise position, the lever is stopped in this position until the lift arm reaches the preset kick-out position, and the lever is return to the hold position.

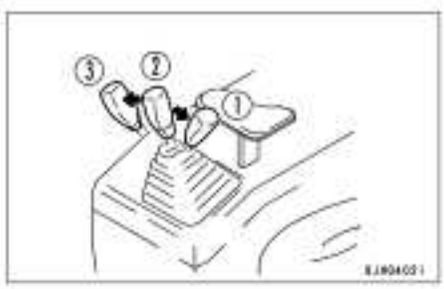
**NOTICE**

**Do not use the FLOAT position when lowering the bucket.**

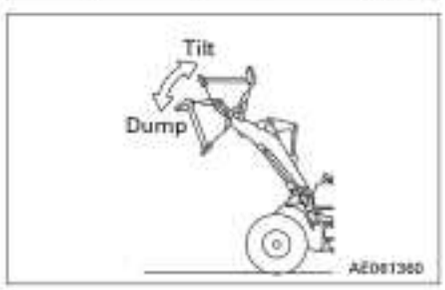



### BUCKET OPERATION

① Tilt ( )
② Hold ( ): The bucket is kept in the same position.
③ Dump ( )




When the work equipment control lever is pulled further from the tilt position, the lever is stopped in this position until the bucket reaches the preset position of the positioner, and the lever is return to the hold position.



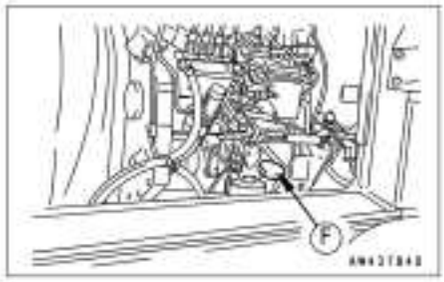



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8. Clean the filter holder, fill the new filter cartridge with engine oil, then coat the seal portion and thread portion of the new filter cartridge with engine oil (or coat thinly with grease), and install.

9. When installing, bring the seal surface into contact with the filter holder, then tighten a further 1/2 turns.

10. After replacing the filter cartridge, add engine oil through oil 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".

11. Run the engine at idling for a short time, then stop the engine, and check that the oil level is between the H and L marks on dipstick. For details, see "24.3 CHECK BEFORE STARTING".




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 cartridge must be replaced when the machine has been operated for 500 hours.

Use API category CD class oil. If CC class oil must be used, change the oil and replace the oil filter at half the usual interval (250 hours).

- **Procedure for normal air bleeding**

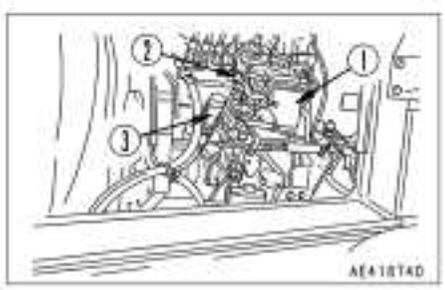
1. Fill the fuel tank with fuel (to the FULL position on the fuel gauge).

2. After replacing filter cartridge ①, loosen joint bolt ②.

3. Loosen the knob of feed pump ③, then pump it up and down until no more bubbles come out with the fuel from the joint bolt.

4. Tighten joint bolt ②.

5. Always use a genuine Komatsu filter cartridge.
   After replacing the filter cartridge, start the engine, and check for leakage of oil from the filter seal surface.




**REMARK**

When the machine has run out of fuel, operate feed pump ③ in the same way to bleed the air.



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## 29.4 SPECIFICATIONS

**TAPE**

| | |
|---|---|
| Applicable cassette tape: | Phillips-tape |
| Track system: | 4 track, 2-channel stereo |
| Tape speed: | 4.75 cm/sec |
| Fast-forwarding and rewinding time: | 185 sec (for a C-60 cassette) |
| Wow and flutter: | 0.15% (WEMS) |
| S/N ratio: | 55 dB |

**RADIO**

| | |
|---|---|
| Receiving frequencies: | FM: 76.1 – 89.9 MHz,<br>AM: 522 – 1,629 KHz. |
| Receiving sensitivity: | FM: 3 μv (30 dB S/N)<br>AM: 10 μv (max.) |
| S/N ratio: | FM: 62 dB<br>AM: 45 dB |

**COMMON TO TAPE AND RADIO**

| | |
|---|---|
| Frequency response: | (40 – 12,500 Hz.) |
| Max. output: | 30 W + 30 W |
| Output impedance: | (4 ohms x 2) or (8 ohms x 4) |
| Current consumption: | 5 A |
| Power source: | DC 12 V – 24 V |
| Polarity: | Negative grounding |
| Dimensions: | 178(W) x 50(H) x 150(D) mm. |
| Weight: | 1.4 kg |

- The appearance and specifications are subject to change without prior notice for improvement purposes.



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