Operation & Maintenance Manual

TEN00067-02

avance LOADER

WA800-3

WHEEL LOADER

SERIAL NUMBERS WA800-50009 and up

WARNING

Unsafe use of this machine may cause serious injury or death. Operators and maintenance personnel must read this manual before operating or maintaining this machine. This manual should be kept near the machine for reference and periodically reviewed by all personnel who will come into contact with it.

NOTICE

Komatsu has Operation & Maintenance Manuals written in some other languages. If a foreign language manual is necessary, contact your local distributor for availability.

KOMATSU®

MidWestTech | Komatsu WA800-3 Wheel Loader Operation & Maintenance Manual | Publi... Order the manual at mid-west-tech.com >

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- 7

SAFETY

6. **General precautions** 1- 2

7. **Precautions during operation** 1- 8
   - 7.1 Before starting engine 1- 8
   - 7.2 After starting engine 1-11
   - 7.3 Transportation 1-19
   - 7.4 Battery 1-20
   - 7.5 Towing 1-22

8. **Precautions for maintenance** 1-23
   - 8.1 Before carrying out maintenance 1-23
   - 8.2 During maintenance 1-28
   - 8.3 Tires 1-34

9. **Position for attaching safety labels** 1-36

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 2-14
    - 11.3 Control levers, pedals 2-22
    - 11.4 Steering column tilt lever 2-26
    - 11.5 Cap with lock 2-26
    - 11.6 Safety bar 2-27
    - 11.7 Towing pin 2-27
    - 11.8 Grease pump 2-28
    - 11.9 Backup alarm 2-28
    - 11.10 Door-open lock 2-28
    - 11.11 Tool box 2-28
    - 11.12 Fuel stop lever 2-28
    - 11.13 Fuse 2-29
    - 11.14 Slow-blow fuse 2-30
    - 11.15 Lunch box tray 2-31
    - 11.16 Storaging place of this manual 2-31
    - 11.17 Taking off power 2-31
    - 11.18 Precautions when handling accumulator 2-32

MidWestTech | Komatsu WA800-3 Wheel Loader Operation & Maintenance Manual |... Order the manual at mid-west-tech.com >

12. Operation 2-33
12.1 Check before starting engine 2-33
12.2 Starting engine 2-49
12.3 Operations and checks after starting engine 2-51
12.4 Moving machine off 2-52
12.5 Changing gear speed 2-54
12.6 Changing direction 2-55
12.7 Turning 2-57
12.8 Stopping machine 2-58
12.9 Operation of work equipment 2-59
12.10 Work possible using wheel loader 2-60
12.11 Precautions for operation 2-65
12.12 Adjusting work equipment posture 2-67
12.13 Parking machine 2-69
12.14 Checks after completion of operation 2-70
12.15 Stopping engine 2-70
12.16 Check after stopping engine 2-71
12.17 Locking 2-71
12.18 Handling the tires 2-72
12.19 Removal and installation of the bucket 2-74

13. Transportation 2-78
13.1 Transportation procedure 2-78
13.2 Loading, unloading work 2-78
13.3 Method of securing machine 2-78
13.4 Method of lifting machine 2-80

14. Cold weather operation 2-83
14.1 Precautions for low temperature 2-83
14.2 Precautions after completion of work 2-85
14.3 After cold weather 2-85
14.4 Warming-up operation for steering hydraulic circuit in cold weather 2-86

15. Long-term storage 2-87
15.1 Before storage 2-87
15.2 During storage 2-87
15.3 After storage 2-87

16. Troubleshooting 2-88
16.1 When machine runs out of fuel 2-88
16.2 Method of towing machine 2-89
16.3 If battery is discharged 2-92
16.4 Other trouble 2-96

MidWestTech | Komatsu WA800-3 Wheel Loader 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 Handling oil, fuel, coolant, and performing oil clinic 3- 5
18.2 Outline of electric system 3- 8

19. Wear parts list 3- 9

20. Recommended fuel, coolant, and lubricant 3-10
20.1 Use of fuel, coolant and lubricants according to ambient temperature 3-11
20.2 Recommended brands, recommended quality for products other than Komatsu genuine oil 3-12

21. Standard tightening torques for bolts and nuts 3-13
21.1 Introduction of necessary tools 3-13
21.2 Torque list 3-14

22. Periodic replacement of safety critical parts 3-15

23. Maintenance schedule chart 3-17
23.1 Maintenance schedule chart 3-17

24. Service Procedure 3-21
24.1 Initial 250 hours service 3-21
24.2 When required 3-22
24.3 Check before starting 3-45
24.4 Every 50 hours service 3-52
24.5 Every 100 hours service 3-53
24.6 Every 250 hours service 3-56
24.7 Every 500 hours service 3-61
24.8 Every 1000 hours service 3-67
24.9 Every 2000 hours service 3-73
24.10 Every 4000 hours service 3-83

SPECIFICATIONS

25. Specifications 4- 2

OPTIONS, ATTACHMENTS

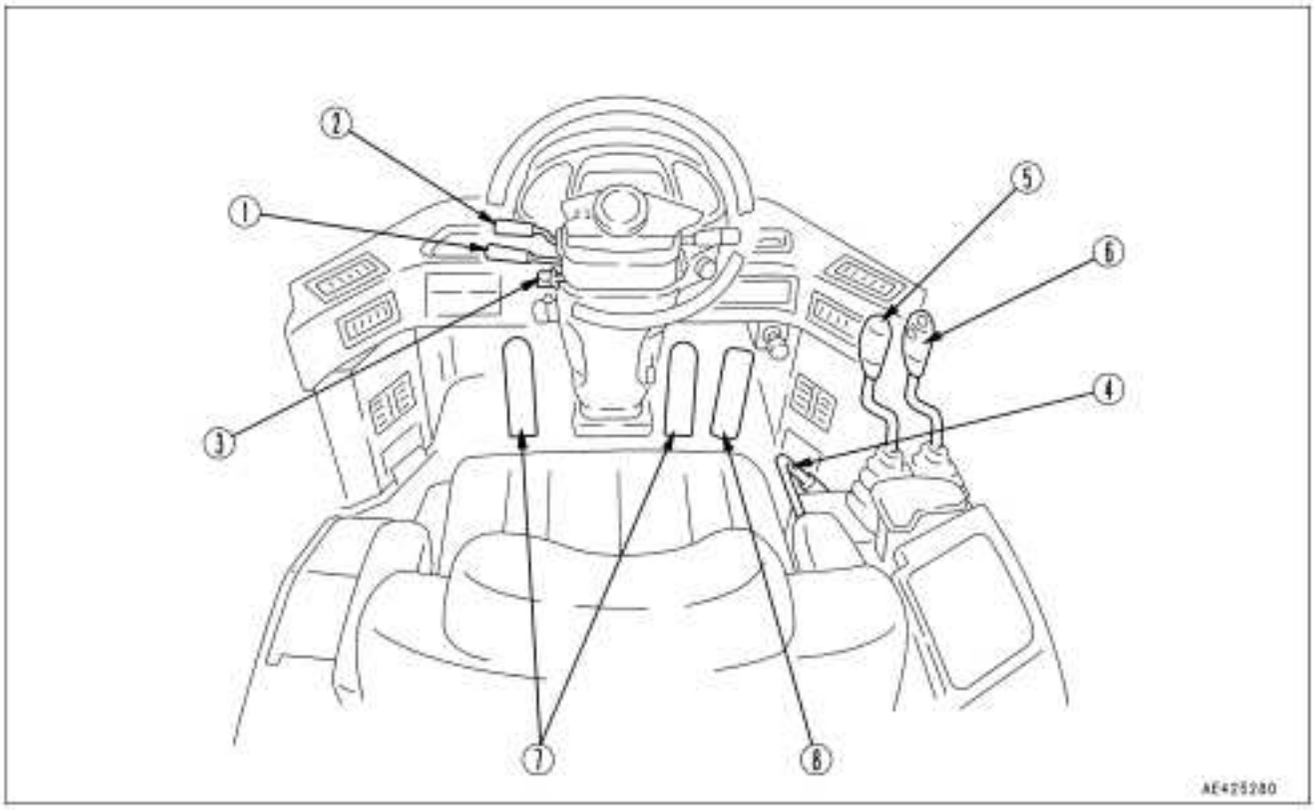
26. Optional part and attachments 5- 2

27. Selecting buckets and tires 5- 3

28. Handling auto shift system 5- 4
28.1 Automatic shift system 5- 4
28.2 Precautions when changing direction 5- 5

MidWestTech | Komatsu WA800-3 Wheel Loader Operation & Maintenance Manual |... Order the manual at mid-west-tech.com >

11.3 CONTROL LEVERS, PEDALS



1. SPEED CONTROL LEVER

This lever controls the travel speed of machine.

This machine has a 3-FORWARD, 3-REVERSE speed transmission.

Place the speed control lever in a suitable position to obtain the desired speed range.

1st and 2nd speeds are used for working.

3rd speed is used for traveling.

However, when the speed control lever stopper is being used, it is impossible to shift to 3rd. Disengage the speed control lever stopper before trying to shift gear.

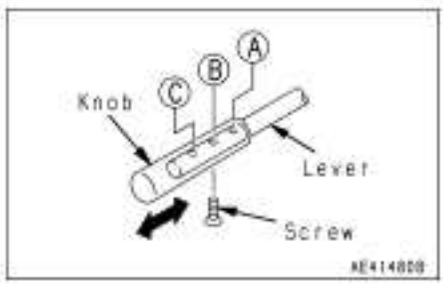


Position ⓐ: 1st
Position ⓑ: 2nd
Position ⓒ: 3rd

REMARK

The length of the lever can be adjusted to 3 stages (positions Ⓐ, Ⓑ, Ⓒ). To adjust the length, remove the screw at the bottom of the lever knob, slide the knob to the desired position, then tighten the screw again.

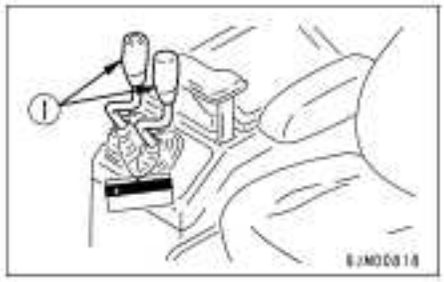
(The lever is installed to position Ⓑ when it is shipped from the factory.)



MidWestTech | Komatsu WA800-3 Wheel Loader Operation & Maintenance Manual |... Order the manual at mid-west-tech.com >

24. SERVICE PROCEDURE

24.1 INITIAL 250 HOURS SERVICE



⚠WARNING

Be sure to put a warning tag on work equipment control levers ①.

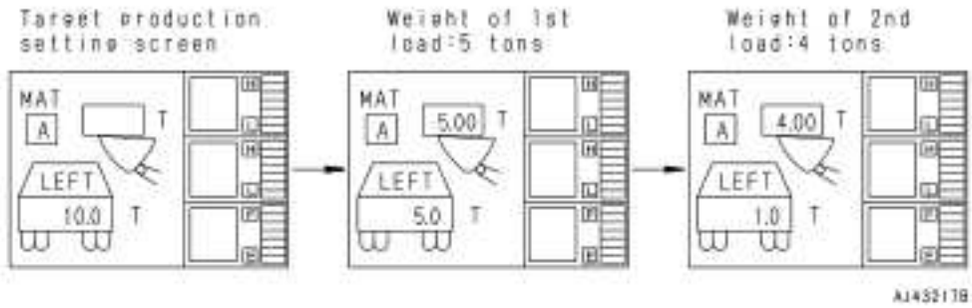
Carry out the following maintenance only after the first 250 hours.

- **REPLACE FUEL FILTER CARTRIDGE**
- **REPLACE TRANSMISSION OIL FILTER ELEMENT**
- **CHECK ENGINE VALVE CLEARANCE, ADJUST**

For details of the method of replacing or maintaining, see the section on EVERY 500 HOURS and 2000 HOURS SERVICE.

MidWestTech | Komatsu WA800-3 Wheel Loader Operation & Maintenance Manual |... Order the manual at mid-west-tech.com >

9. After loading the material into the bucket, tilt the bucket fully and raise the boom.
   The buzzer will sound, and at the same time, the load in the bucket will be displayed in load weight display portion ③. This load will be subtracted from the previous remaining value in the remaining value display portion, and the result will be displayed as the production amount.



10. If the data that has been weighed is not needed, press the cancel switch on the bucket control lever.
    The data is canceled and the display returns to the previous measurement.

    The data can be canceled using the cancel switch only while the weight of the load in the bucket is being displayed in load weight display ③ (approx. 15 seconds).



MidWestTech | Komatsu WA800-3 Wheel Loader Operation & Maintenance Manual |... Order the manual at mid-west-tech.com >