Operation & Maintenance Manual

SEAM04280102

WA800-1

WHEEL LOADER

SERIAL NUMBERS **WA800–10001** 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 WA800-1 Wheel Loader Operation & Maintenance Manual | Publi... Order the manual at mid-west-tech.com >

CONTENTS

OPERATION

GENERAL LOCATIONS AND SPECIFICATIONS .. 4
INSTRUMENTS AND CONTROLS 5
REMOVAL AND INSTALLATION OF BUCKET 34
USING ACCUMULATORS 38
CHECK BEFORE STARTING 39
OPERATING YOUR MACHINE 45
ADJUSTMENT OF WORK EQUIPMENT 54
HANDLING THE TIRES 56
TOWING 59
TRANSPORTATION 61
COLD WEATHER OPERATION 62

MAINTENANCE

PERIODIC MAINTENANCE 69
BLEEDING AIR FROM CIRCUIT 70
PERIODICAL REPLACEMENT OF SAFETY PARTS 73
MAINTENANCE TABLE 74
OIL FILLER AND LEVEL GAUGE POSITIONS .. 78
EVERY 50 HOURS SERVICE 79
EVERY 100 HOURS SERVICE 80
INITIAL 250 HOURS SERVICE 83
EVERY 250 HOURS SERVICE 83
EVERY 500 HOURS SERVICE 87
EVERY 1000 HOURS SERVICE 90
EVERY 2000 HOURS SERVICE 96
EVERY 4000 HOURS SERVICE 104
WHEN REQUIRED 105
ADJUSTMENT 118
TROUBLE SHOOTING GUIDE 120
SERVICE METER 124
MACHINE AND ENGINE SERIAL NUMBERS 125
FUEL, COOLANT AND LUBRICANTS 126

MidWestTech | Komatsu WA800-1 Wheel Loader Operation & Maintenance Manual | Publicati... Order the manual at mid-west-tech.com >

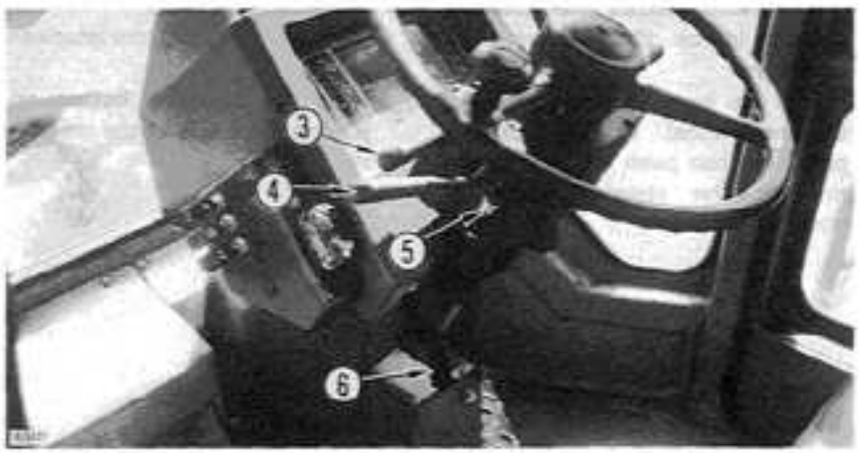
3. DIRECTIONAL LEVER



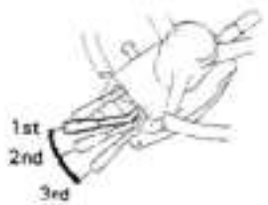
This lever is used to change the direction of travel of the machine.

① Forward
② Reverse
Ⓝ Neutral

★ The engine cannot be started if the directional lever is not at N (neutral).
★ When operating the directional lever, place your hand on a steering wheel and operate it by your fingers.



4. 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 are used for traveling.

MidWestTech | Komatsu WA800-1 Wheel Loader Operation & Maintenance Manual | Publication... Order the manual at mid-west-tech.com >

INITIAL 250 HOURS SERVICE

Perform the following maintenance after running the machine for the first 250 hours.

a. FUEL FILTER
b. TRANSMISSION OIL FILTER
c. ENGINE VALVE CLEARANCE

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

EVERY 250 HOURS SERVICE

a. WHEEL HUB NUTS



If wheel hub nuts (1) are loose, tire wear will be increased ands accidents may be caused. If any hub nuts are loose, tighten them to the specified tightening torque.

★ Tightening torque:
94.5 ± 10.5 kgm
★ If any wheel nut is broken, replace all nuts for that wheel.
★ Always rotate in the direction of tightening when checking for loose nuts.

b. ENGINE OIL PAN AND FILTER



1. Open the engine side cover on the left side of the machine, and apply open lock.
2. Loosen drain plug (1) on the left side of the machine to drain the oil, and tighten the drain plug again after draining the oil.

★ When draining the oil, fit the supplied vinyl tube to the drain ports of the drain plug to prevent the oil from spraying out.

MidWestTech | Komatsu WA800-1 Wheel Loader Operation & Maintenance Manual | Publicati... Order the manual at mid-west-tech.com >

★ If the battery capacity of the normal machine is smaller than the battery capacity of the failed machine, use two normal machines. Connect the booster cable from one machine to the battery on the right side of the failed machine: connect the booster cable from the other machine to the battery on the left side of the failed machine using the same procedure.

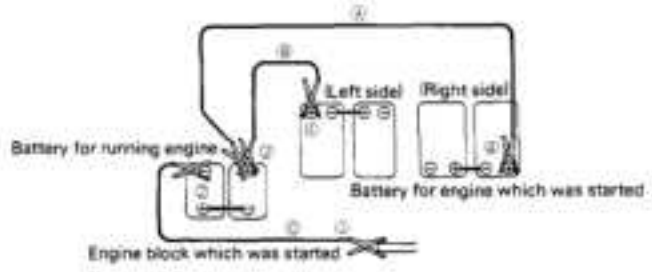
⚠ **When connecting the cables, never contact the positive (+) and negative (−) terminals.**

⚠ **Make sure that the booster cable connections are correct. Connect the booster cable to the engine block as far as possible from the battery.**

3. Starting engine
   1) Turn the starting switch to START position and start up the engine.
   2) If the engine doesn't start at first, try again after 2 minutes or so.

After the engine has started, the booster cables should be disconnected in the reverse order in which they were connected.

1. Disconnecting the booster cables
   1) Disconnect the clip of booster cable B from the engine block which was started.
   2) Disconnect the other clip from the negative (−) terminal of the running engine.
   3) Disconnect the clip of booster cable A from the positive (+) terminal of the running engine.
   4) Disconnect the other clip from the positive (+) terminal of the engine which was started.



MidWestTech | Komatsu WA800-1 Wheel Loader Operation & Maintenance Manual | Publicati... Order the manual at mid-west-tech.com >