

Operation & Maintenance Manual

SEAM041E0102

WD600-1

WHEEL DOZER

SERIAL NUMBERS **WD600-10001** and up

KOMATSU

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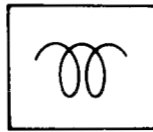
- When operating on slopes, remember the following points:
 - When driving on a slope, always drive directly up or down it. Never drive horizontally or diagonally across the slope, as this may cause the machine to roll over or slip sideways.
 - As far as possible, avoid turning the machine on a slope. It may cause the machine to roll over or slip sideways.

PARKING

- When parking the machine, park it in a safe place outside the working area, or in the specified place. The following factors should be considered when choosing a parking place: it should be on flat, firm ground where there is no danger of rock-falls, landslides or floods.
- If the machine has to be parked on a slope, it should be parked facing directly up or down the slope, and chocks should be placed under the tires.
- When leaving the machine, always lower the work equipment completely to the ground, and put all control levers in neutral. Next, apply the parking brake and lock all levers. Then put blocks under the tires.
- After stopping the engine, always remove the starting key.

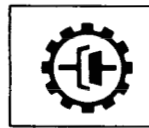
INSTRUMENTS AND CONTROLS

4. AFTERHEATING MONITOR



When using APS (automatic priming system) in cold weather, and when starting, after the engine starts, the lamp will flash until the water temperature reaches 20°C, informing you that afterheating has started.

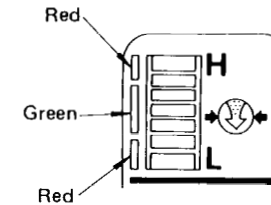
5. TRANSMISSION CUT-OFF SELECTOR PILOT LAMP



This lamp lights up when the transmission cut-off selector switch is turned to ON.

★ If the monitor lamp is ON and the left brake pedal is depressed, the transmission will be returned to neutral.

6. AIR PRESSURE GAUGE



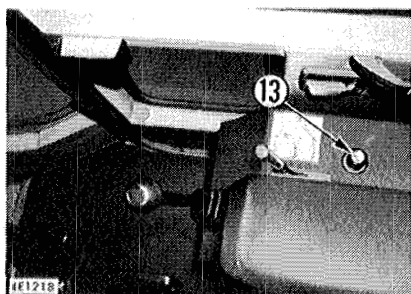
This gauge indicates the air pressure in the air tank. The green range should be lighted during normal operation.

If the red range lights up during operations, the alarm buzzer will sound, the warning lamp will flash, and the air pressure monitor lamp will flash.

If this happens, stop the machine, increase the engine speed and wait until the green range lights up.

★ If the air pressure drops even lower, the parking brake will be automatically applied.

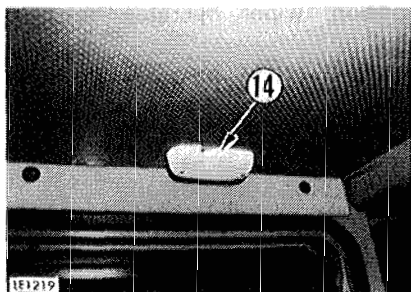
INSTRUMENTS AND CONTROLS



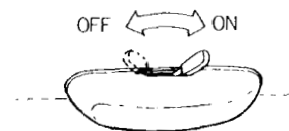
13. CIGARETTE LIGHTER



This is used to light cigarettes. To use, push the lighter in. After the few seconds it will spring back. At that time, remove the lighter and light your cigarette.

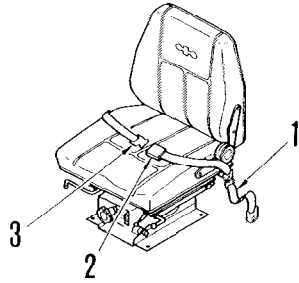


14. ROOM LAMP SWITCH



When this switch is moved to ON position, room lamp will light.

SEAT BELT



⚠ Before fastening the seat belt, inspect the securing brackets and belt for abnormal conditions.

Fasten the belt and remove it in the following manner.

1. Adjust the seat so that the brake pedal can be depressed all the way with the operator's back against the backrest.
2. After positioning the seat, install the tether belt (1). With the seat unoccupied, tense the belt slightly across the seat and install.

⚠ Check that there are no kinks in the belt.

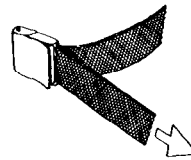
3. Sit in the seat. Hold buckle (2) and insert (3) into the buckle (2). Check that the belt has locked by pulling it.

4. When removing the belt, raise the tip of the buckle lever to release it.

★ Fasten belt along your body without kinking it. Adjust the lengths of the belt on both the buckle and the insert sides so that the buckle is located at the mid-point of your body front.

Adjust the belt length in the following manner.

- i) To shorten the belt, pull the free end of the belt on either the buckle body or insert side.



- ii) To lengthen, pull the belt while holding it at a right angle to buckle or insert.

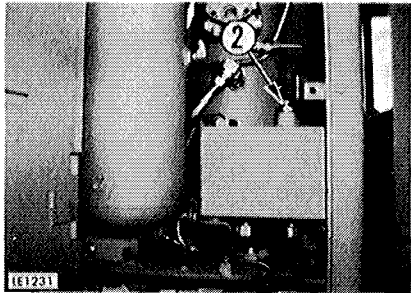


5. When operating a machine equipped with ROPS, be sure to use the seat belt.

★ Inspect bolts and fittings on the chassis for tightness. Retighten any loose bolts to 2 to 3 kgm torque.

★ If the seat is scratched or frayed or if any of the fittings are broken or deformed from long service, replace the seat belt immediately.

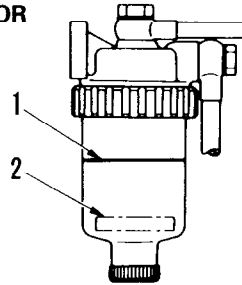
CHECK BEFORE STARTING



★ The type of lubricant used depends on the ambient temperature. Select according to the table "FUEL, COOLANT AND LUBRICANTS".

⚠ Always use engine oil to refill the brake oil tank.

j. CHECK FOR SEDIMENT AND WATER IN THE WATER SEPARATOR



The water separator separates water mixed in the fuel. If float (2) is at or above red line (1), drain the water. For the draining procedure, see section "WHEN REQUIRED".

★ Even if a water separator is installed, be sure to check the fuel tank to remove water and sediment in the fuel.

k. CHECK THAT PARKING BRAKE WORKS PROPERLY.

l. CHECK THAT BRAKES WORK PROPERLY.

m. CHECK THAT HORN SOUNDS PROPERLY.

n. CHECK THAT LAMPS FLASH PROPERLY; CHECK FOR DIRT OR DAMAGE.

o. CHECK DIRECTION OF REAR VIEW MIRROR; CHECK FOR DIRT OR DAMAGE.

p. CHECK THAT ENGINE EXHAUST GAS COLOR AND SOUND ARE NORMAL.

q. CHECK THAT GAUGES AND INSTRUMENTS WORK PROPERLY.

OPERATING YOUR MACHINE

If engine stops

If the engine stops on a slope, depress the right brake pedal fully. Next, lower the work equipment to the ground and apply the parking brake. Then put the directional and speed control levers in neutral, and start the engine again. (If the directional lever is not in neutral, the engine will not start.)

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HANDLING OF BATTERY

⚠ 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.

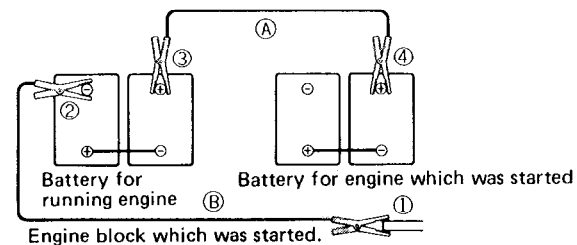
3. Starting engine

- 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.



PRECAUTIONS FOR MAINTENANCE

GENERAL

- Wear well-fitting helmet, safety shoes and working clothes. When drilling, grinding or hammering, always wear protective goggles.
- When working with others, choose a group leader and work according to his instructions. Do not perform any maintenance beyond the agreed work.
- Hand a caution sign in the operator's compartment (for example "Do not start" or "Maintenance in progress"). This will prevent anyone from starting or moving the machine by mistake.
- Smoke only in designated places. Never smoke while working.
- Always keep the work shop in good condition. Make sure there is no mud or oil on the floor.
- Keep oily cloths and other combustible things in a safe place away from fire. In addition, learn the location and method of operation of fire extinguishers.
- Always stop the engine before cleaning the machine or adding fuel.
- Flame should never be used instead of lamps. Never use a naked flame to check leaks or the level of oil, fuel, anti-freeze or electrolyte.
- Always use non-inflammable cleaning agents when cleaning parts.

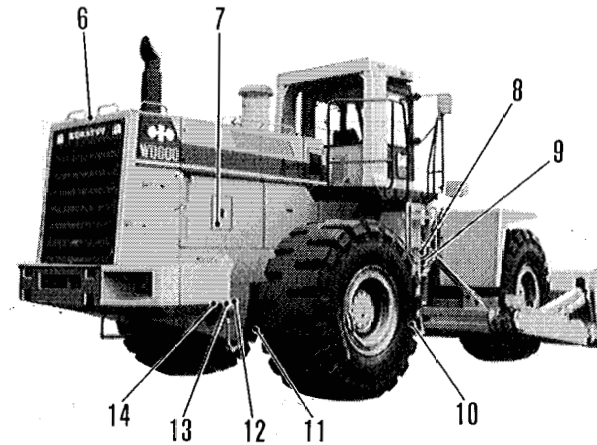
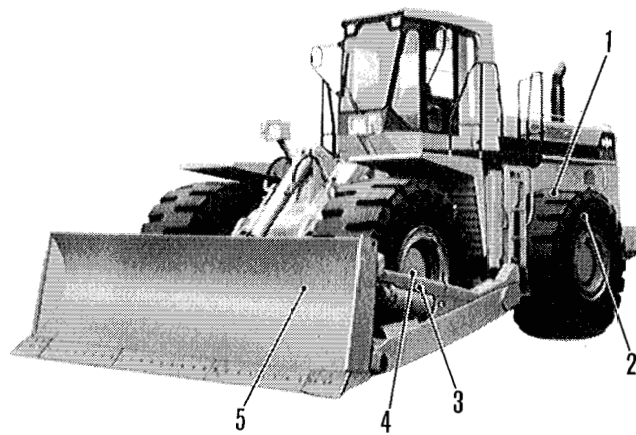
BEFORE MAINTENANCE

- Before starting work, stop the machine on a firm, level surface, and use blocks to keep the machine from moving during operations.
- Lower the blade to the ground. If this is impossible, use the safety pin and blocks to hold the work equipment securely in position. In addition, apply the locks to all control levers.
- Always lock the front and rear frames before inspecting and servicing the machine.
(In articulate frame model)
- Remove all oil and mud from the machine. In particular, be sure that the steps, hand grips, and the floor of the operator's compartment are clean.
- Always use the standard ROPS equipment. Do not modify the ROPS equipment.

OIL FILLER AND LEVEL GAUGE POSITIONS

OIL FILLER AND LEVEL GAUGE POSITIONS

- | | | |
|--|--|--------------------------------|
| 1. Cylinder block drain valve | 6. Cooling water inlet | 11. Rear axle drain plug |
| 2. Torque converter cooler drain valve | 7. Engine oil pan level gauge and oil filler | 12. Engine oil pan drain valve |
| 3. Final drive case drain plug | 8. Hydraulic tank oil filler | 13. Cooling water drain valve |
| 4. Final drive case level plug | 9. Hydraulic tank oil level gauge | 14. Fuel tank oil filler |
| 5. Front axle drain plug | 10. Hydraulic tank drain valve | |

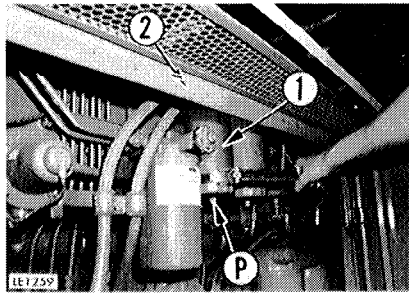


EVERY 500 HOURS SERVICE

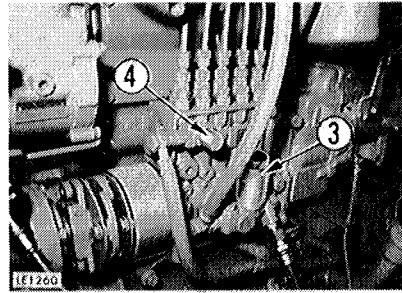
EVERY 500 HOURS SERVICE

★ Maintenance for every 50, 100 and 250 hours should be carried out at the same time.

a. FUEL FILTER



1. Remove drain plug (P) on the bottom of the filter to drain fuel.
2. Using a filter wrench, remove cartridge (1) by turning it counterclockwise.
3. Fill the new cartridge with fuel and refit it after applying a dab of oil to the gasket face.



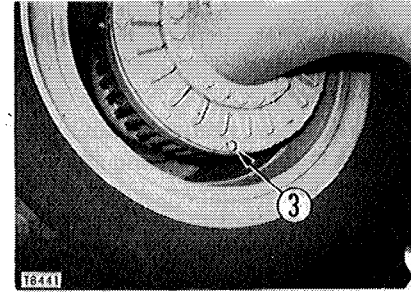
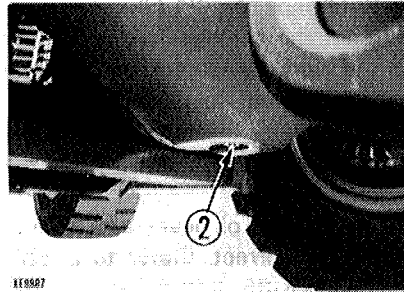
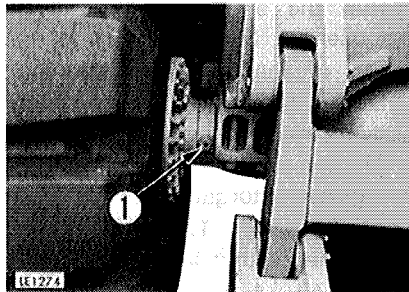
4. After replacing cartridge (1), loosen air vent plug (2).
 5. Loosen the knob of feed pump (3) and move the pump up and down to draw off fuel until air ceases to come out of plug (2).
- ★ To refit the cartridge, place the gasket face in contact with the seal face of the filter stand, then screw up the cartridge 1/2 to 3/4 of a turn (be careful not to tighten it up excessively).

6. Tighten up air vent plug (2).
 7. Loosen overflow valve (4). Bleed air from the fuel injection pump using the same procedure as described for the fuel filter.
 8. After bleeding air, tighten overflow valve (4). Push in the knob of feed pump (3) and tighten it.
- ★ After replacing the cartridge, start up the engine and check the filter seal face for possible oil leakage.
- ★ Be sure to use a genuine Komatsu cartridge.

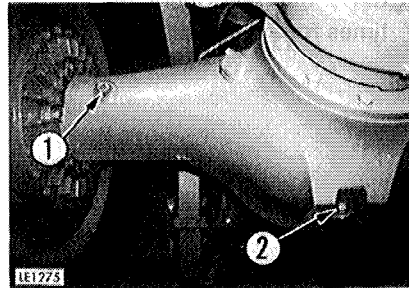
EVERY 2000 HOURS SERVICE

b. AXLE

Front



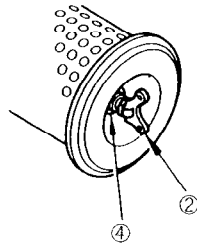
Rear



1. Remove front and rear oil filler plugs (1), then remove drain plugs (2) to drain the oil.
2. Remove drain plug (3) to drain the oil. After draining, tighten up it.
3. Stop the machine so that drain plug (4) of the final drive is at the bottom. Remove oil filler plug (5) and drain plug (4), and fit the tube of attached tool in hole of plug (4) and drain the oil.
4. After draining the oil, clean drain plugs (2), (3) and (4), then install them.
5. Add oil to the specified level through the oil filler ports (1) and (5) of the axle housing and left and right final drives.
6. Check the oil level and ensure that is correct. (Refer to WHEN REQUIRED.)

WHEN REQUIRED

- ★ Check inner element mounting nuts for looseness and, if necessary, retighten.
- ★ Replace seal washer (4) or wing nut (2) if they are broken.



Replacing inner element

1. First remove the outer element.
 2. Remove the inner element.
 3. Place the cover over the air intake part to prevent dust entering.
 4. Clean the air cleaner body interior, then remove the cover from the air intake port.
 5. Fit a new inner element and tighten it with nuts.
 6. Install the outer element and the cover. Push the dust indicator reset button.
- ★ Do not attempt to reinstall a cleaned inner element.

⚠ Do not clean or replace the air cleaner element with the engine running.

Cleaning outer element

With compressed air

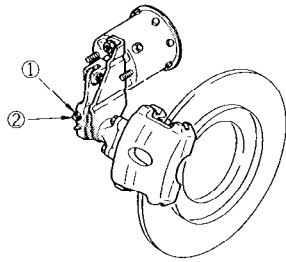


Direct dry compressed air (less than 7 kg/cm²) to element from inside along its folds, then direct it from outside along its folds and again from inside, and check element.

⚠ When using compressed air, wear safety glasses and other things required to maintain safety.

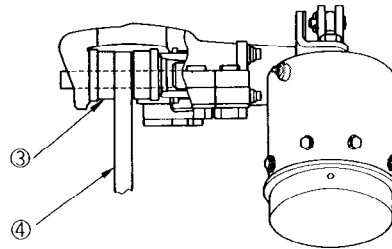
ADJUSTMENT

If the parking brake fails to work properly, adjust it in the following manner.



1. Confirm that the indication of the air pressure gauge is in the green range and then release the parking brake.
2. Turn bolt (2) clockwise while pressing bolt retainer (1) and let pads (3) on both sides come into close contact with disc (4).
3. Back off bolt (2) a half turn counter-clockwise while pressing bolt retainer (1).

ADJUSTMENT



4. Restore bolt retainer (1) to the original position and confirm that the retainer is in locking position to bolt (2).

⚠ When adjusting the parking brake, be sure to put chocks on the tires so that the slippage can be prevented.

⚠ Maintain the air pressure at a sufficiently high pressure to prevent the parking brake from operating automatically while adjusting the brake.

To prevent a third person from operating the parking brake by mistake, be sure to attach a caution tag to the parking brake switch.

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