CEAM000503

Operation & Maintenance Manual

KOMATSU®

WA250-6

WHEEL LOADER

SERIAL NUMBERS WA250-6 A76001 and up

ENGINE 6D107E-1

March 2016

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- Position (a): Traction control OFF (MAX)

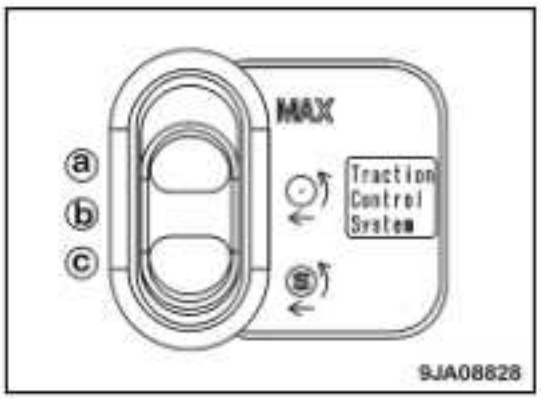
  The traction control is not actuated.

- Position (b): Traction control ON

  The traction control is actuated.

  When the traction control is actuated, the traction control operation pilot lamp on the machine monitor illuminates. It is possible to select the maximum traction level on the machine monitor from A, B, and C.

  For details about selecting the traction level, see "Selecting Traction Level" on page 2-32.



- Position (c): S mode

  The S mode is actuated.

  If the S mode is actuated, the S mode operation pilot lamp on the machine monitor illuminates.

  If the S mode is actuated, it is possible to select the most suitable drive power when operating on extremely slippery roads, such as during snow-clearing operations. This makes it possible to reduce tire slip and carry out the operation easily. In addition, it also suppresses the sudden movement when driving forward and allows the machine to move off smoothly.

★ Using the traction control switch and traction level selector function makes it possible to carry out efficient operations with reduced tire slip by selecting the most suitable maximum traction to match the job conditions.

If the traction is too great for the operating conditions:

- It will become more difficult to raise the lift arm and tire slip will be more likely to occur. If tire slip becomes common, the working efficiency will become poor and the life of the tires will also be reduced.

If the traction is too small for the operating conditions:

- It will become impossible to thrust the bucket sufficiently into the materials being loaded, and the working efficiency will become poor.

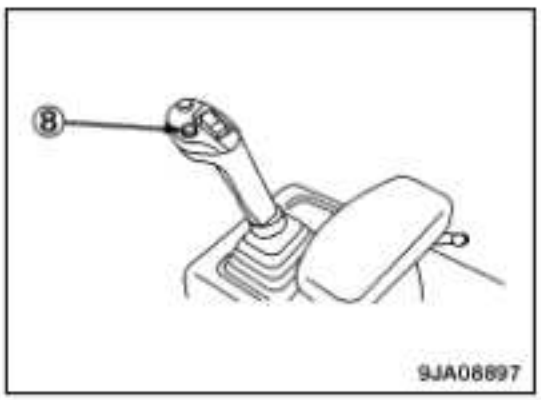
Max. Traction Switch

Use the max. traction switch (8) to cancel the traction control or S mode.

Use the traction control switch to select traction control ON or S mode.

When the traction control ON or S mode selection is active, if switch (8) pressed, the traction control or S mode is cancelled and the maximum traction increases. At the same time, the traction control operation pilot lamp or S mode operation pilot lamp on the machine monitor goes out.

To return to the traction control ON or S mode status, press switch (8) again or change the position of the directional lever.



Remark

Use this function for scooping-up operations or other operations where the maximum traction is desired.

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Battery

⚠ WARNING

- The battery generates flammable gas. Do not bring fire or sparks near the battery.
- Battery electrolyte is dangerous. If it gets in your eyes or on your skin, wash it off with a large amount of water and consult a doctor immediately.
- Battery electrolyte dissolves paint. If it gets on the bodywork, wash it off immediately with water.
- If the battery electrolyte is frozen, do not charge the battery or start the engine with a different power source. There is danger that the battery may explode.
- Battery electrolyte is toxic. Do not let it flow into drainage ditches or spray it on the ground surface.

When the ambient temperature drops, the battery capacity will drop also. If the battery charge ratio is low, the battery electrolyte may freeze.

- Maintain the battery charge as close as possible to 100%.
- Insulate the battery against cold temperature so that the machine can be started easily the next morning.

Remark

Measure the specific gravity and calculate the rate of charge from the following conversion table.

Charging Rate (%)	Electrolyte Temperature			
	20°C (68°F)	0°C (32°F)	-10°C (14°F)	-20°C (-4°F)
100	1.28	1.29	1.30	1.31
90	1.26	1.27	1.28	1.29
80	1.24	1.25	1.26	1.27
75	1.23	1.24	1.25	1.26

- As the battery capacity drops drastically in low temperatures, cover the battery or remove it from the machine; keep it in a warm place; and install it again the next morning.
- If the electrolyte level is low, add distilled water in the morning before beginning work.
- Do not add water after the day's work. Diluted electrolyte in the battery may freeze during the night.

Precautions After Completion of Work

Mud and water on the undercarriage can freeze overnight and make machine movement difficult the following morning.

Observe the following precautions.

- Remove all mud and water from the machine body. In particular, wipe the hydraulic cylinder rods clean to prevent damage to the seals caused if mud, dirt, and/or water on the rod surface gets inside the seal.
- Park the machine on hard, dry ground. If this is impossible, park the machine on wooden boards. The boards help protect the tires from freezing to the ground so the machine can be moved the next morning.
- Open the drain valve and drain any water collected in the fuel system to prevent it from freezing.
- Fill the fuel tank to capacity. This minimizes moisture condensation in the tank when the temperature drops.

After Cold Weather

When the season changes and the weather becomes warmer, do the following procedure.

- Replace all oil and fuel with fuel and oil of the specified viscosity.

  ★ For details, see "RECOMMENDED FUEL, COOLANT, AND LUBRICANTS" on page 3-11.

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Every 2000 Hours Service

★ Maintenance for every 50, 100, 250, 500, and 1,000 hours service should be performed at the same time.

Change Oil in Hydraulic Tank, Replace Hydraulic Filter Element

⚠ WARNING

- The parts and oil are at high temperature immediately after the engine is stopped and may cause burns. Wait for the temperature to go down before starting the work.
- When removing the oil filler cap, turn it slowly to release the internal pressure and then remove it.

Required

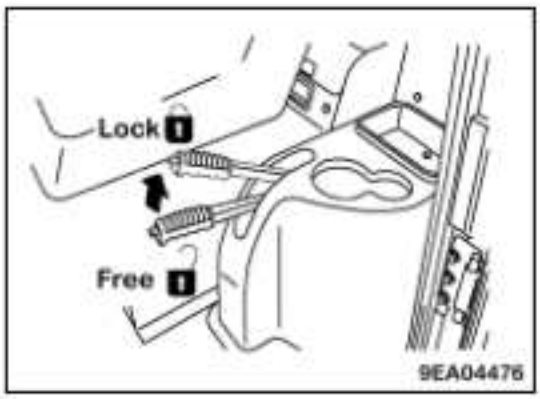
- Container to catch oil.

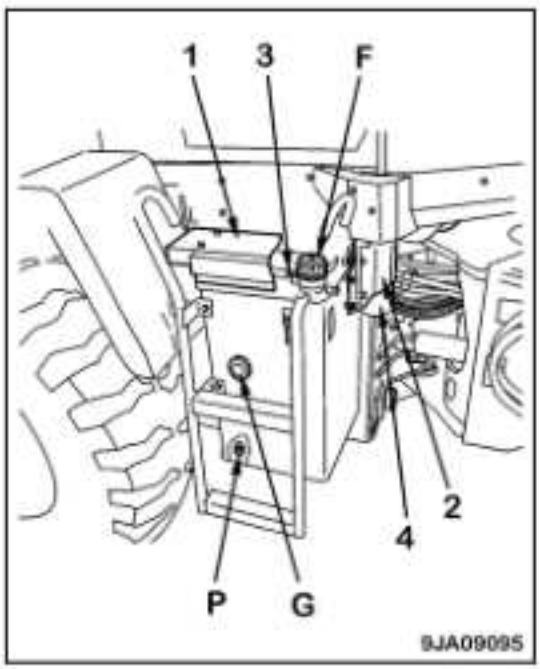
  Refill capacity: . . . . . 67 liters (17.70 US gallons)

★ Before removing the oil filter cap for a filter or oil change, clean around the filter cap to avoid any dust or dirt from entering the hydraulic system. Dust or dirt can damage the system.

1. Lower the bucket horizontally to the ground and set the parking brake lever to the LOCK position.
2. Stop the engine and wait for the temperature of all parts to go down.
3. Remove covers (1) and (2).
4. Keep grip (3) pulled, then turn the cap of oil filler (F) counterclockwise and remove it.
5. Set a container to catch the oil under drain plug (P).
6. Loosen drain plug (P); drain the oil; then tighten drain plug (P) again.
7. Using a filter wrench, turn cartridge (4) to the left to remove it.
8. Clean the filter holder; fill the new filter cartridge with oil; then coat the seal and thread of the filter cartridge with oil (or coat thinly with grease) and install.

   When installing the seal, tighten it until its surface comes into contact with the filter holder, then tighten it 1/3 turn more.
9. Refill the specified quantity of oil through oil filler (F).
10. Check that the hydraulic oil is at the specified level. For details, see "Check Oil Level in Hydraulic Tank, Add Oil" on page 3-59.





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