TEN00204-04

Operation & Maintenance Manual

WA250-6

WHEEL LOADER

SERIAL NUMBERS WA250-6 75001 and up

ENGINE 6D107E-1

October 2009

KOMATSU

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4. Place the directional selector switch (2) at the F (forward) or R (reverse) position.



REMARK

When the directional selector switch actuation switch (3) is at the ON position, if the directional lever (1) is operated to FORWARD or REVERSE, the machine will travel in forward or reverse according to the operation of the directional lever, regardless of the position of the directional selector switch (2).

Priority is given to the operation of the directional lever.

When using directional selector switch (2) again, set directional lever (1) and directional selector switch (2) to the N position.

If the directional selector pilot lamp on the machine monitor flashes, the switch or the lever is in one of the following conditions. Set it to the correct position.

- When directional lever is not at N position

  If the directional lever is not at the N position, the pilot lamp flashes, and at the same time, the central warning lamp lights up and the alarm buzzer sounds.

  In this condition, the machine will move forward or in reverse according to the set position of the directional lever.

  Return the directional lever to the N position.

- When directional selector switch is at F or R when engine is started

  If the directional selector switch is at F or R, the pilot lamp flashes, and at the same time, the central warning lamp lights up and the alarm buzzer sounds.

  In this condition, the engine will not start, so set the directional selector switch to N.



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CHECK INFLATION PRESSURE OF TIRES

⚠ WARNING

When inflating a tire, check that no one will enter the working area. Use an air chuck which has a clip and which can be fixed to the air valve.

- **While inflating the tire, check the inflation pressure occasionally so that it will not rise too high.**
- **If the rim is not fitted normally, it may be broken and scattered while the tire is inflated. To ensure safety, place a guard around the tire and do not work in front of the rim but work on the tread side of the tire.**
- **Abnormal drop of inflation pressure and abnormal fitting of the rim indicate trouble in the tire or rim. In this case, be sure to ask a tire repair shop to carry out repairs.**
- **Be sure to observe the specified inflation pressure.**
- **Do not adjust the inflation pressure of the tires just after high-speed travel or heavy-duty work.**



CHECK

Measure the inflation pressure with a tire pressure gauge, while the tires are cool, before starting work.

INFLATION OF TIRES

Adjust the inflation pressure properly.

When inflating a tire, use an air chuck which can be fixed to the air valve of the tire as shown in the figure. Do not work in front of the rim but work on the tread side of the tire.

The proper inflation pressure is shown below.

	Tire size	Inflation pressure
Standard	20.5-25-12PR	Front tire: 280 kPa (2.8 kg/cm², 39.8 PSI) Rear tire: 280 kPa (2.8 kg/cm², 39.8 PSI)
Option	17.5-25-16PR	Front tire: 300 kPa (3.0 kg/cm², 42.6 PSI) Rear tire:: 300 kPa (3.0 kg/cm², 42.6 PSI)

NOTICE

The optimum inflation pressure differs according to the type of work. For details, see "HANDLING THE TIRES (PAGE 3-137)".

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EVERY 2000 HOURS SERVICE

Maintenance for every 50, 100, 250, 500 and 1000 hours service should be carried out at the same time.

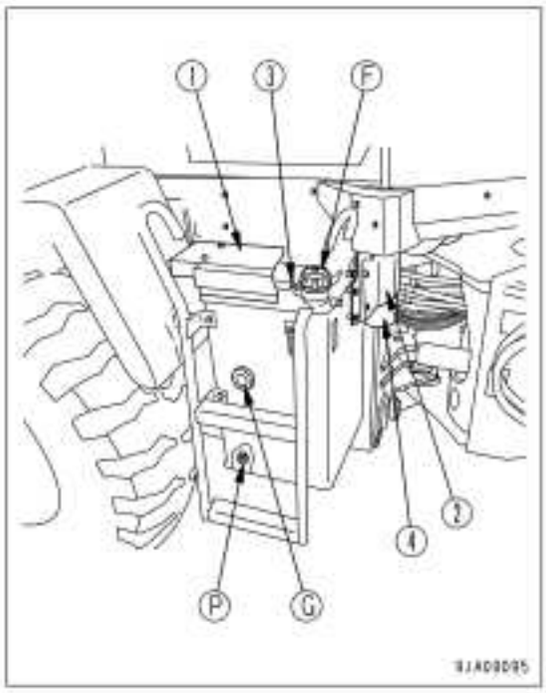
CHANGE OIL IN HYDRAULIC TANK, REPLACE HYDRAULIC FILTER ELEMENT

⚠ 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, then remove it.**

- Refill capacity: 67 liters (17.70 US gal)

1. Lower the bucket horizontally to the ground and apply the parking brake, then stop the engine.
2. Remove covers (1) and (2).
3. Keep grip (3) pulled, then turn the cap of oil filler (F) counterclockwise and remove it.
4. Set a container to catch the oil under drain plug (P).
5. Loosen drain plug (P), drain the oil, then tighten drain plug (P) again.
6. Using a filter wrench, turn cartridge (4) to the left to remove it.
7. 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.
8. Refill the specified quantity of oil through oil filler (F).
9. Check that the hydraulic oil is at the specified level. For details, see "CHECK OIL LEVEL IN HYDRAULIC TANK, ADD OIL (PAGE 4-48)".



10. Run the engine at low idle, and extend and retract the steering, bucket, and lift arm cylinders 4 to 5 times. Be careful not to operate the cylinder to the end of its stroke (stop approx. 100 mm (3.9 in) before the end of stroke).

NOTICE

If the engine is run at high speed immediately after startup or a cylinder is pushed up to its stroke end, air taken inside the cylinder may cause damage to the piston packing.

11. Operate the steering, bucket, and lift arm cylinders to the end of their stroke 3 to 4 times, then stop the engine and loosen filler cap to bleed the air from the hydraulic tank.
12. Check that the hydraulic oil level and add oil to the specified level. For details, see "CHECK OIL LEVEL IN HYDRAULIC TANK, ADD OIL (PAGE 4-48)".
13. Next, raise the engine speed and follow the procedure in Step 11 to bleed the air. Repeat this process until no more air comes out.
14. After completing the air bleed operation, install cover (1) and (2).

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