TEN00471-04

Operation & Maintenance Manual

WHEEL LOADER **WA200-6**

SERIAL NUMBERS 71006 and up

ecot3

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 WA200-6 Wheel Loader Operation & Maintenance Manual | Publi... Order the manual at mid-west-tech.com >

GREASE PUMP ---- 3- 63
OPENING, CLOSING CAB DOORS, WINDOWS ---- 3- 64
FUSE ---- 3- 68
SLOW BLOW FUSE ---- 3- 70
POWER OUTLET ---- 3- 71
STORAGE BOX ---- 3- 71
AM/FM RADIO-CASSETTE STEREO ---- 3- 72
AIR CONDITIONER ---- 3- 80
HANDLING CAB WIPER ---- 3- 87
OPERATION ---- 3- 88
CHECK BEFORE STARTING ENGINE, ADJUST ---- 3- 88
STARTING ENGINE ---- 3-106
CHECKS AFTER STARTING ENGINE ---- 3-110
OPERATIONS AND CHECKS AFTER STARTING ENGINE ---- 3-111
STOPPING ENGINE ---- 3-114
MOVING THE MACHINE (DIRECTIONAL, SPEED), STOPPING THE MACHINE ---- 3-115
TURNING ---- 3-121
OPERATION OF WORK EQUIPMENT ---- 3-123
WORK POSSIBLE USING WHEEL LOADER ---- 3-125
PRECAUTIONS FOR OPERATION ---- 3-131
ADJUSTING WORK EQUIPMENT POSTURE ---- 3-133
PARKING MACHINE ---- 3-135
CHECKS AFTER COMPLETION OF OPERATION ---- 3-137
LOCKING ---- 3-137
HANDLING THE TIRES ---- 3-138
TRANSPORTATION ---- 3-140
TRANSPORTATION PROCEDURE ---- 3-140
LOADING, UNLOADING WORK WITH TRAILERS ---- 3-140
LIFTING MACHINE ---- 3-144
COLD WEATHER OPERATION ---- 3-146
PRECAUTIONS FOR LOW TEMPERATURE ---- 3-146
PRECAUTIONS AFTER COMPLETION OF WORK ---- 3-147
AFTER COLD WEATHER ---- 3-147
LONG-TERM STORAGE ---- 3-148
BEFORE STORAGE ---- 3-148
DURING STORAGE ---- 3-148
AFTER STORAGE ---- 3-148
TROUBLESHOOTING ---- 3-149
WHEN MACHINE RUNS OUT OF FUEL ---- 3-149
METHOD OF TOWING MACHINE ---- 3-149
IF BATTERY IS DISCHARGED ---- 3-151
OTHER TROUBLE ---- 3-154
MAINTENANCE ---- 4- 1
GUIDES TO MAINTENANCE ---- 4- 2
OUTLINES OF SERVICE ---- 4- 4
HANDLING OIL, FUEL, COOLANT, AND PERFORMING OIL CLINIC ---- 4- 4
OUTLINE OF ELECTRIC SYSTEM ---- 4- 7
WEAR PARTS ---- 4- 8
WEAR PARTS LIST ---- 4- 8
RECOMMENDED FUEL, COOLANT, AND LUBRICANT ---- 4- 9

MidWestTech | Komatsu WA200-6 Wheel Loader Operation & Maintenance Manual |... Order the manual at mid-west-tech.com >

ADJUST REAR VIEW MIRROR

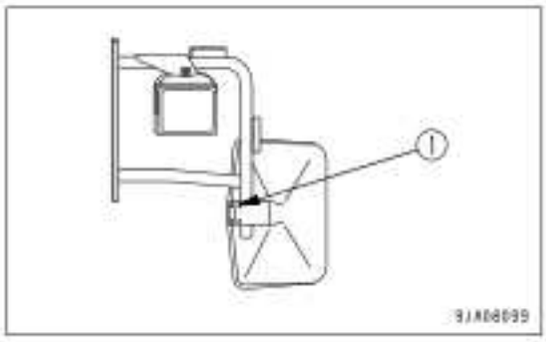
WARNING

- **When adjusting the angle of the mirror, prepare a scaffold first in order to provide a safe working platform.**
- **If you try to work standing on the counterweight, there is always a danger of serious injury or death due to falling off from the machine.**

Mirrors A, B

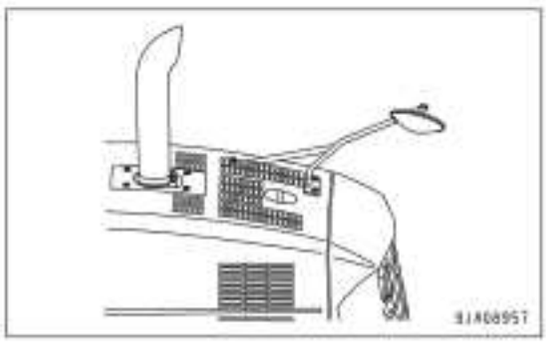
Loosen bolt (1) of the mirror, then adjust the mirror to a position which gives the best view from the operator's seat of the blind spot at the left and right sides at the rear of the machine.

- When installing the mirror, adjust so that it is possible to see any person (or any object of a height of 1 m (3 ft 3 in) and diameter of 30 cm (11.8 in) at the rear left or right of the machine.



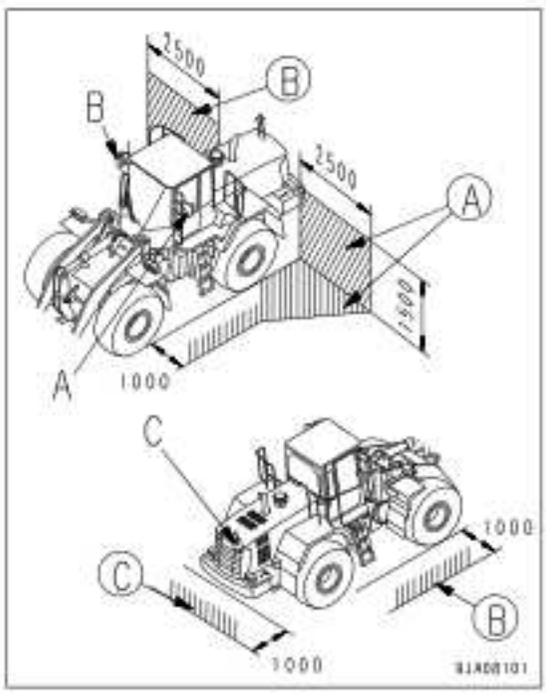
Mirrors C

Adjust so that is possible to see the ground around the machine at a range of 1 m (3 ft 3 in) from the operator's seat.



Install the mirrors at the position and dimensions shown in the figure. The values below are reference values for the range of visibility.

Range of view (left): 2500 mm (8 ft 2 in)
Range of view (right): 2500 mm (8 ft 2 in)
Mirror A: Must be possible to see hatched portion (A)
Mirror B: Must be possible to see hatched portion (B)
Mirror C: Must be possible to see hatched portion (C)



NOTICE

- **Tighten the mirror mounting bolts securely that they will not be loosened and the mirrors will not come off.**

  Tightening torque
  Mirrors A, B :2.0 to 2.5Nm (0.2 to 0.25 kgm, 1.45 to 1.81 lbft)
  Mirrors C :8.8 to 12.7Nm (0.9 to 1.3 kgm, 6.51 to 9.4 lbft)

- **If the tightening torque cannot be controlled, ask your Komatsu distributor for tightening the bolts.**

MidWestTech | Komatsu WA200-6 Wheel Loader Operation & Maintenance Manual |... Order the manual at mid-west-tech.com >

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.

MidWestTech | Komatsu WA200-6 Wheel Loader Operation & Maintenance Manual |... Order the manual at mid-west-tech.com >

EVERY 2000 HOURS SERVICE

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

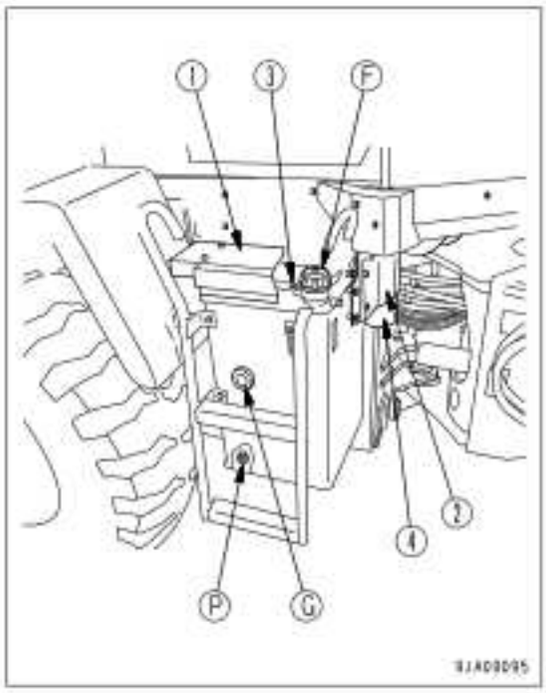
CHANGE OIL IN HYDRAULIC TANK, REPLACE HYDRAULIC FILTER ELEMENT

⚠ WARNING

- **Immediately after the engine is stopped, its parts and oil are still very hot, and may cause burn injury. Accordingly, wait until they have cooled down before starting the work.**
- **When removing the oil filler cap, turn it slowly to release the internal pressure, then remove it.**

- Refill capacity: 58 liters (15.32 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. By 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 approximately 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).

MidWestTech | Komatsu WA200-6 Wheel Loader Operation & Maintenance Manual |... Order the manual at mid-west-tech.com >