CEAM001604

Operation & Maintenance Manual

KOMATSU®

PC200LL-8

PC220LL-8

LOGGING EXCAVATOR

SERIAL NUMBERS PC200LL-8 A87001 and up
PC220LL-8 A87001 and up

ENGINE 6D107E-1

March 2016

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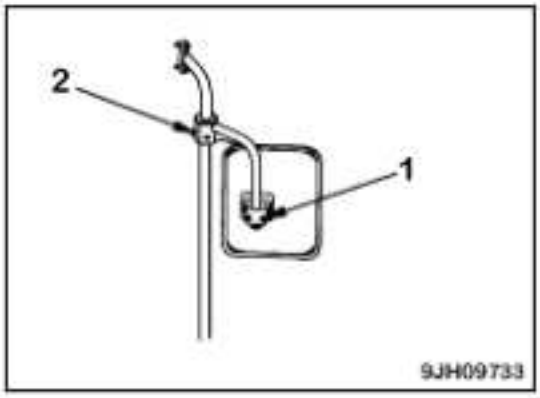
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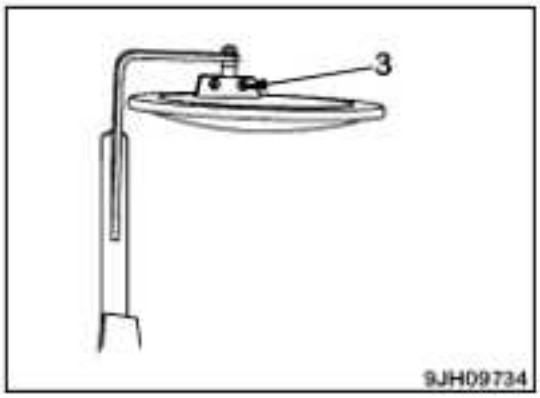
Rearview Mirrors



Mirrors A, B

Loosen bolt (1) or (2) 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.

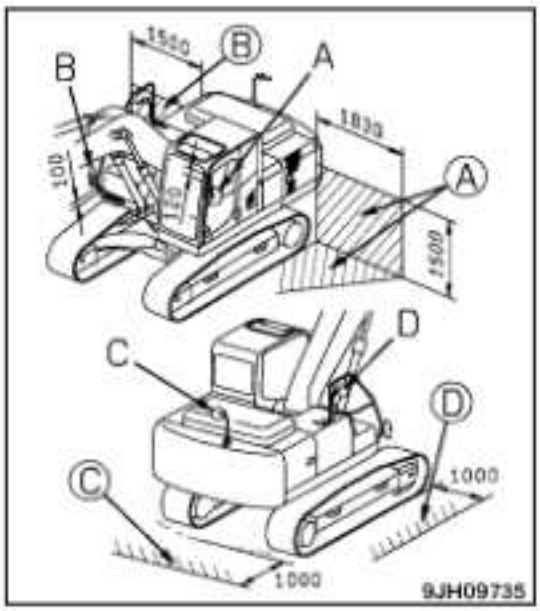


Mirrors C, D

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.

If the movement of the mirror is stiff when adjusting it, loosen screw (3) of the mirror.

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



Mounting height: . . . . . .
. . . . . 120 mm (4.7 in) (mirror A)
. . . . . 100 mm (3.9 in) (mirror B)
Range of view (left): . . . . . 1830 mm (6 ft)
Range of view (right): . . . . . 1500 mm (4 ft 11 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)
Mirror D:	Must be possible to see hatched portion (D)

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WORK EQUIPMENT CONTROLS AND OPERATIONS

⚠ WARNING

If the lever is operated when the engine speed has been lowered by the auto-deceleration function, the engine speed will suddenly rise, operate the levers carefully.

Use the control levers to operate the work equipment.

Note that when the levers are released, they return to the HOLD position and the work equipment is held in that position.

The work equipment is operated by the left and right work equipment control levers. The left work equipment control lever operates the arm and swing, and the right work equipment control lever operates the boom and bucket.

The movements of the lever and work equipment are as shown in the diagrams on the right. When the levers are released, they automatically return to the neutral position and the work equipment is held in place.

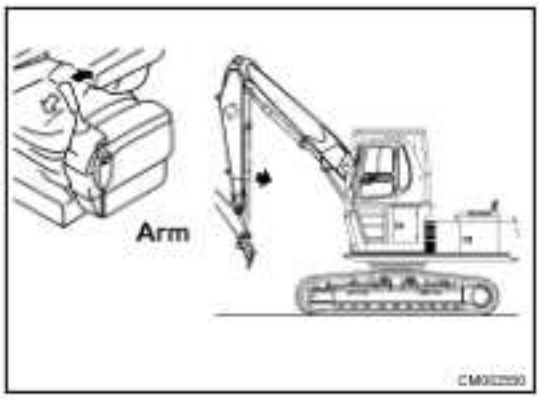
- If the work equipment control levers are returned to the neutral position when the machine is stopped, even if the fuel control dial is set to FULL, the auto-deceleration mechanism will act to reduce the engine speed to a mid-range speed.

Remark

With this machine, an accumulator is installed in the operating circuit, if less than 15 seconds has passed since the engine was stopped, when the starting switch is turned to the ON position even with the engine stopped, it is possible to operate the levers to lower work equipment to the ground.
In addition, this operation can also be used to release the remaining pressure in the hydraulic cylinder circuit or to lower the boom after the machine has been loaded onto a trailer.

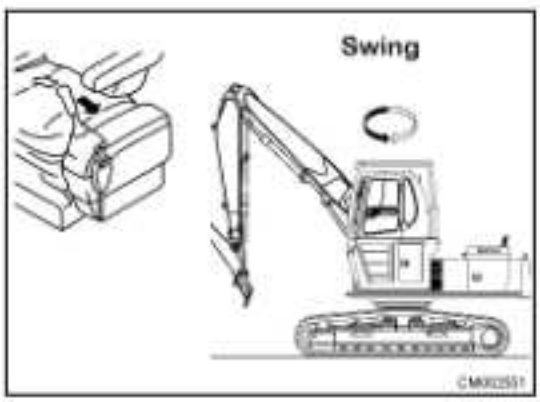
Arm operation

Move the left work equipment control lever to the front or rear to operate the arm.



Swing operation

Move the left work equipment control lever to the left or right to swing the upper structure.



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Every 1000 Hours Maintenance

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

Replace Hydraulic Oil Filter Element

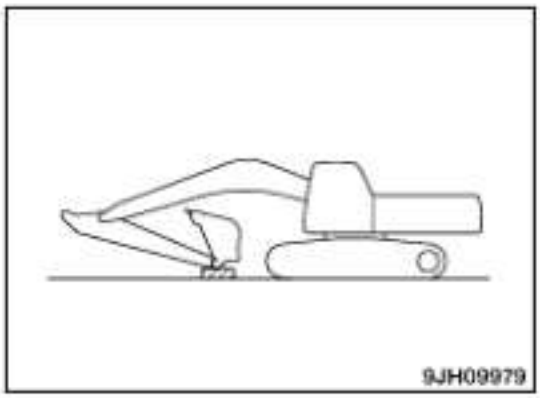
⚠ WARNING

- **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.**

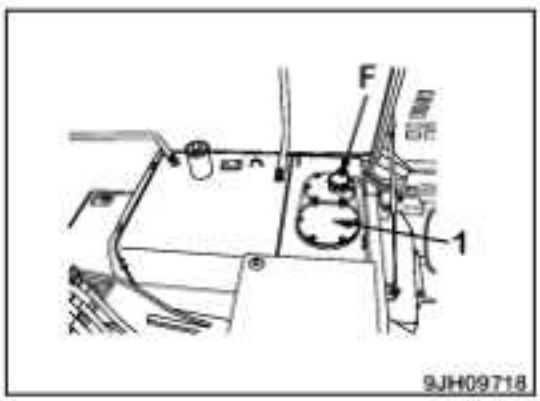
Remark

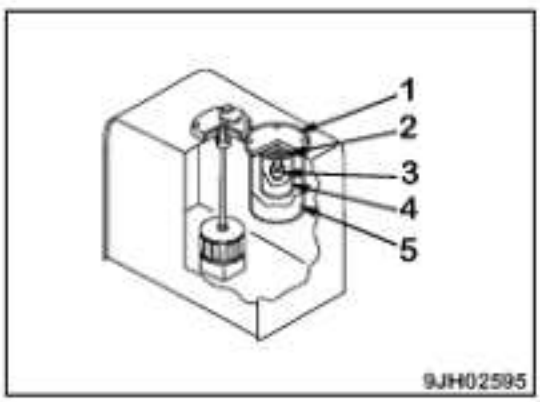
If the machine is equipped with a hydraulic breaker, the hydraulic oil will deteriorate much faster than during normal bucket operations. For details, See "Maintenance Interval for Hydraulic Breaker" on page 3-21 when carrying out maintenance.

1. Set the work equipment on the hard and flat ground in the maintenance posture as shown in the figure, then lower it to the ground and stop the engine.



2. Remove the cap from oil filler (F), and release the internal pressure.
3. Loosen 6 bolts, then remove cover (1). When doing this, the cover may fly out under the force of spring (2), so hold the cover down when removing the bolts.
4. After removing spring (2), valve (3) and strainer (4), take out element (5).
   - Inspect the bottom of the filter case for dirt, and remove it, if any. Take precaution to not let dirt fall into the hydraulic tank.
5. Clean the removed parts in diesel oil.
6. Install the new element in the place where old element (5) was installed.
7. Set valve (3), strainer (4) and spring (2) on top of the element.
8. Set cover (1) in position, push it down by hand, and install the cover with the mounting bolts.
9. Screw in the oil filler cap and install the cover.
10. To bleed the air, start the engine according to "Starting Engine" on page 2-133 and run the engine at low idle for 10 minutes.
11. Stop the engine.





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