EEAM008402

Operation & Maintenance Manual



PC450-6K
PC450LC-6K
HYDRAULIC EXCAVATOR

SERIAL NUMBERS PC450-6K - K30001 AND UP
PC450LC-6K - K30001

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.

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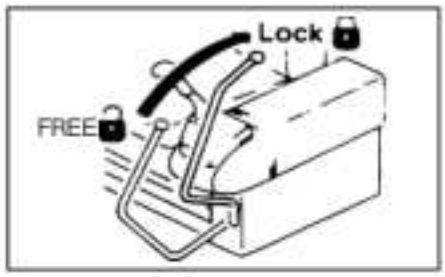
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SPECIFICATIONS

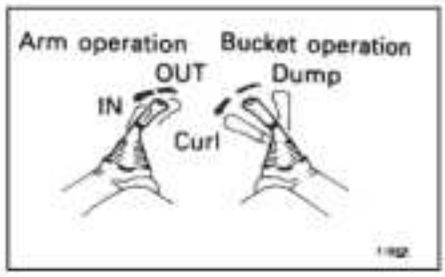
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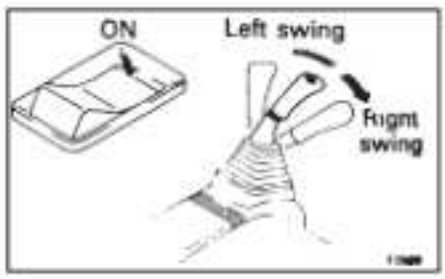
3. Set the safety lock lever ③ to the FREE position, and raise the bucket from the ground.



4. Operate bucket control lever ④ and arm control lever ⑤ slowly to move the bucket cylinder and arm cylinder to the end of the stroke.



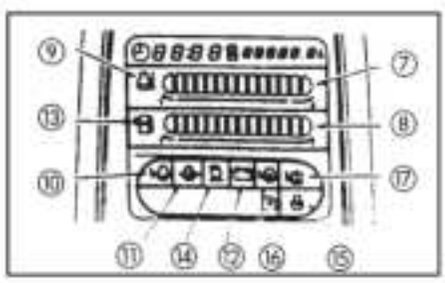
5. Carry out bucket and arm operation for 5 minutes at full stroke, alternating between bucket operation and arm operation at 30 second intervals.
If the swing lock switch ⑥ is set to the ON (actuated) position and swing control lever ⑤ is operated at full stroke, oil temperature rise can be increased earlier.



NOTICE

When the work equipment is retracted, take care that it does not interfere with the machine body or ground.

6. After carrying out the warming-up operation, check that each gauge and monitor lamp is in the following condition.
- Engine water temperature gauge ⑦: Inside green range
- Fuel gauge ⑧: Inside green range
- Engine water temperature monitor ⑨: OUT
- Radiator water level monitor ⑩: OUT
- Engine oil pressure monitor ⑪: OUT
- Charge level monitor ⑫: OUT
- Fuel level monitor ⑬: OUT
- Air cleaner clogging monitor ⑭: OUT
- Engine pre-heating monitor ⑮: OUT
- Engine oil level monitor ⑯: OUT
- Hydraulic oil level monitor ⑰: OUT



7. Check that there is no abnormal exhaust gas colour, noise, or vibration. If any abnormality is found, repair it.

PC450-ENG

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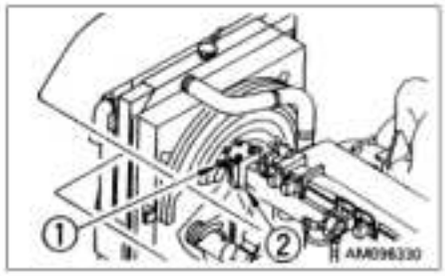
8. After replacing the filter cartidge, add engine oil through oil filter F until the oil level is between the H and L marks on dipstick G.

For details of the oil to use, see "20. USE OF FUEL, COOLANT AND LUBRICANTS ACCORDING TO AMBIENT TEMPERATURE".

9. Run the engine at idling for a short time, then stop the engine, and check that the oil level is between the H and L marks on the dipstick. For details, see "24.3 CHECK BEFORE STARTING".

Even if the machine has not been operated for 250 hours, the oil and filter cartridge must be replaced when the machine has been operated for 6 months.
In the same way, even if the machine has not been operated for 6 months, the oil and filter cartridge must be replaced when the machine has been operated for 250 hours.

24.5.11 REPLACE CORROSION RESISTOR CARTRIDGE



1. Screw in valves ① at the top of the corrosion resistor.

2. Using a filter wrench, turn cartridge ② to the left to remove it.

3. Coat the seal surface of the new filter cartridge with engine oil, then install it.
When installing, bring the packing surface into contact with the seal surface of the filter holder, then tighten a further 2/3 turn.

4. Open valve ①.

5. Run the engine and check that there is no leakage of water from the seal surface.

Anti-freeze alone is not sufficient to prevent corrosion within the engines fitted to these machines. Additional corrosion protection is provided with supplemental coolant additive. This is supplied in the corrosion resistor fitted to the engine, this supplies a dosage of the chemical DCA4 into the engine coolant.
To ensure the correct dosage of DCA4, the collant should be tested and an appropriate dosage corrosian resistor fitted.

Use the DCA4 test kit (Part No. 6742-01-4130) to determine the current dosage of DCA4 in the engine coolant.
Follow the instructions included in the kit.

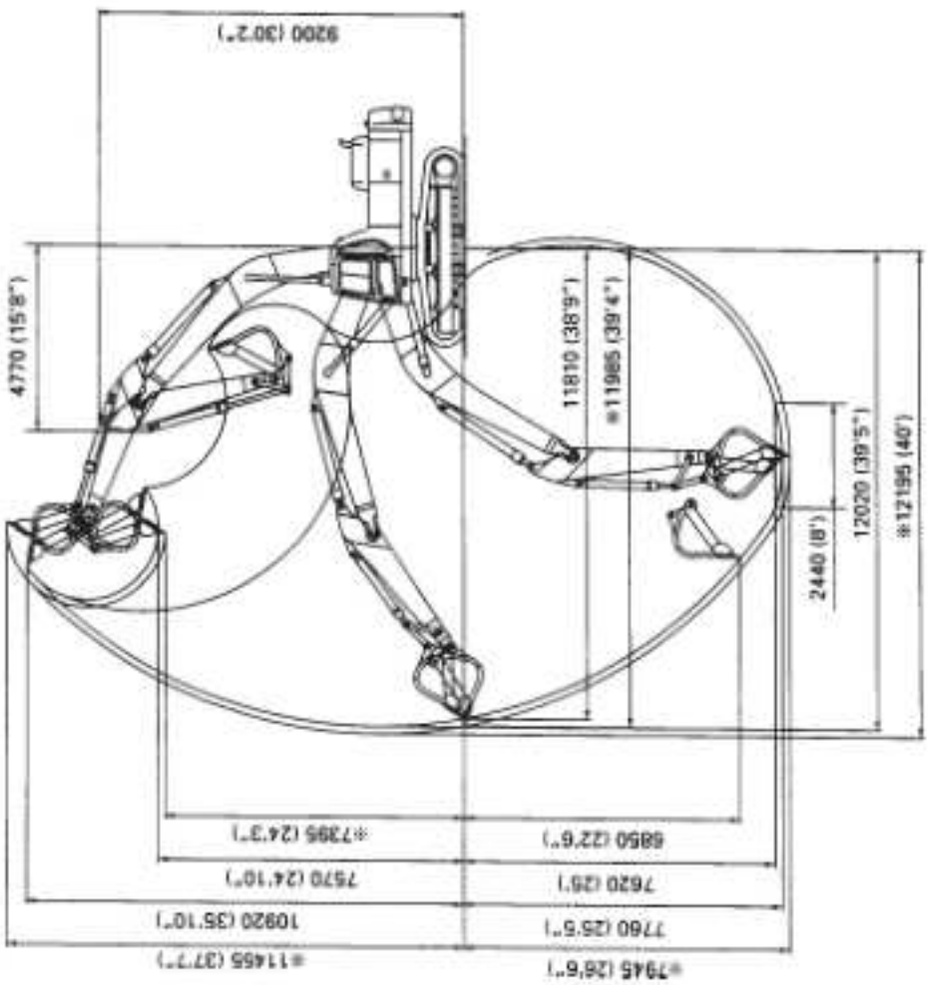
a) If the concentration is below 0.3 units/litre replace the service filter with corrosion resistor (Part No. 6742-01-4110).
b) If the concentration is between 0.3 units/litre and 0.8 units/litre replace the service filter with corrosion resistor.
c) If the concentration is greater than 0.8 units/litre do not replace the filter. Monitor the concentration at next service.

Do not use the kit extend or omit the service intervals unless the concentration is greater than 0.8 units/litre.
Important: Serious engine damage can occur during prolonged usage with an under or over dosed system.

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1. The mark ✣ indicates the dimensions for shovel operation.
2. Never allow other person than the operator to enter the swing range (Max. swing range, Max. digging radius).



PC450 ENG

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