EEAM008404

Operation & Maintenance Manual

PC450LC-6K

HYDRAULIC EXCAVATOR

SERIAL NUMBERS PC450LC -12144 and up

April 2000

KOMATSU®

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12.11 PROHIBITIONS FOR OPERATION

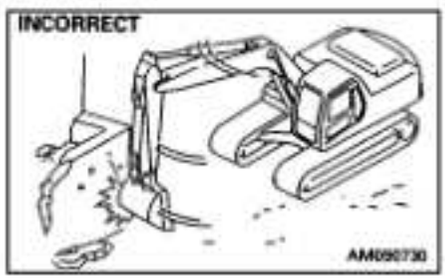
⚠ WARNING

- **If it is necessary to operate the work equipment control lever when the machine is travelling, stop the machine before operating the work equipment control lever.**
- **If the lever is moved inside the deceleration range, engine speed will suddenly rise. Operate the levers carefully.**
- **Never operate the machine on a rock bed (hard or soft rock).**

Prohibited operations using swing force

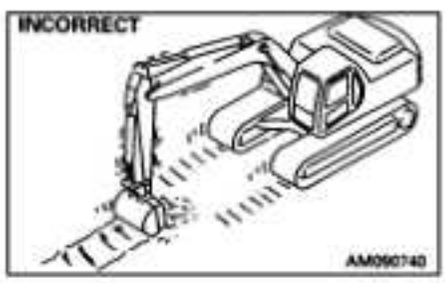
Do not use the swing force to compact soil or break earth mounds or walls.

When swinging, do not dig the bucket teeth into the soil. These operations will damage the work equipment.



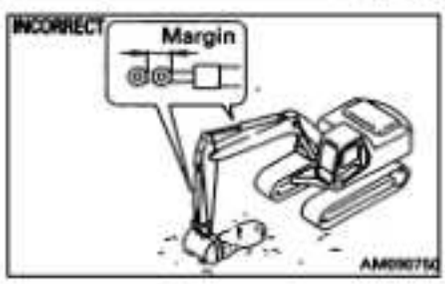
Prohibited operations using travel force

Do not leave the bucket dug into the ground and use the travel force to excavate. This will bring excessive force to bear on the rear of the machine.



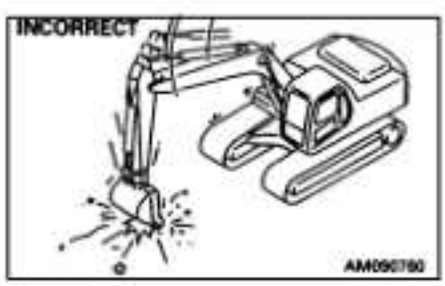
Precautions when operating hydraulic cylinders to end of stroke

If the cylinder is operated to the end of its stroke during operations, force will be brought to bear on the stopper inside the cylinder, and this will reduce the life of the machine. To prevent this, always leave a small safety margin when operating the cylinders.



Prohibited operations using dropping force of bucket

Do not use the dropping force of the bucket as a pickaxe, breaker, or pile driver. This will bring excessive force to bear on the rear of the machine, and will not only damage the machine, but is also dangerous.



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24.6.3 CHANGE OIL IN ENGINE OIL PAN, REPLACE ENGINE OIL FILTER CARTRIDGE

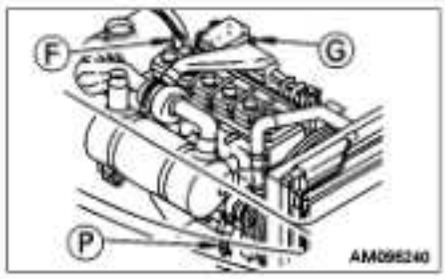
Perform this maintenance every 500 hours on machines equipped with bypass filter.

⚠ WARNING

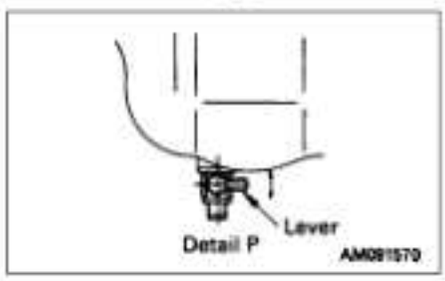
The oil is at high temperature after the engine has been operated, so never change the oil immediately after finishing operations. Wait for the oil to cool down before changing it.

Prepare the following
- Container to catch drained oil: Min 34 (l) capacity
- Refill capacity: 34 l (9.0 US gal, 7.5 UK gal)
- Filter wrench

1. Remove the inspection cover of the undercover directly under drain plug Ⓟ under the machine, then place a container to catch the oil.



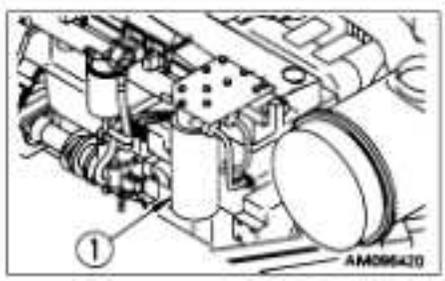
2. Lower the lever of drain valve Ⓟ slowly to prevent getting oil on yourself, and drain the oil. After draining the oil, raise the lever to close the valve.



3. Check the drained oil, and if there are excessive metal particles or foreign material, please contact your Komatsu distributor.

4. Tighten drain valve Ⓟ.

5. Open the engine hood. Using the filter wrench from the upper side of the engine, turn filter cartridge ① counterclockwise to remove it.
   In particular, if this operation is carried out immediately after stopping the engine, a large amount of oil will come out, so wait for 10 minutes before starting the operation.



6. Clean the filter holder, coat the packing surface of a new filter cartridge with engine oil (or coat it thinly with grease), then install it to the filter holder.

REMARK

Confirm that no remnants of old packing still adhere to the filter holder as this may result in oil leakage.

7. When installing, tighten until the packing surface contacts the seal surface of the filter holder, then tighten it up further 3/4 to 1 of a turn.

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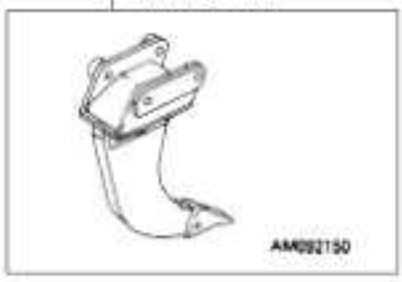
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29. INTRODUCTION OF ATTACHMENTS

29.1 SPECIFICATION, USE

- **PC450-6K, PC450LC-6K**

Name	Specifications, use	
Narrow bucket	Capacity Outside width	1.2 m^3 1,120 mm
Narrow bucket	Capacity Outside width	1.4 m^3 1,270 mm
Light duty bucket	Capacity Outside width	1.8 m^3 1,565 mm
Light duty bucket	Capacity Outside width	1.6 m^3 1,700 mm
Rock bucket	Capacity Outside width	2.0 m^3 1,715 mm
Ripper bucket	Capacity Outside width	1.0 m^3 1,250 mm
One tooth ripper bucket	Shank width Crushing depth	118 mm 1,130 mm



Name	Specifications, use	
Track shoes (PC450)	Triple grouser shoe width Triple grouser shoe width	700 mm 800 mm
Track shoes (PC450LC)	Triple grouser shoe width Triple grouser shoe width	600 mm 800 mm
Short arm	Arm length Max. digging depth	2,900 mm 7,285 mm
Short arm	Arm length Max. digging depth	2,400 mm 6,785 mm
Extension arm	Arm length Max. digging depth	4,000 mm 8,385 mm
Extension arm	Arm length Max. digging depth	4,800 mm 9,195 mm
Head guard	In place where there is danger of falling rocks, always install the head guard to protect the operator.	

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