SEAM002406

Operation & Maintenance Manual

KOMATSU®

PC200,200LC-6
PC210,210LC-6 MIGHTY
PC220,220LC-6
PC230,230LC-6 MIGHTY

HYDRAULIC EXCAVATOR

SERIAL NUMBERS

PC200/200LC-6 - 96514
PC210/210LC-6 - 30980 and up
PC220/220LC-6 - 52852
PC230/230LC-6 - 10177

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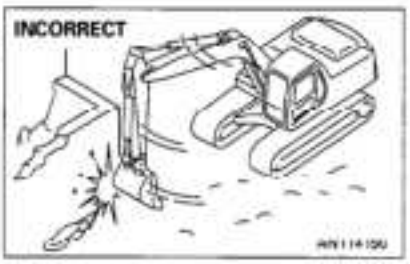
12.11 PROHIBITIONS FOR OPERATION

⚠ WARNING

- **If it is necessary to operate the work equipment control lever when the machine is traveling, 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).**

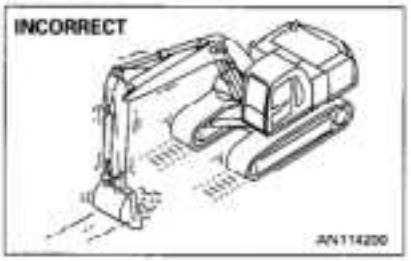
Prohibited operations using swing force

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.



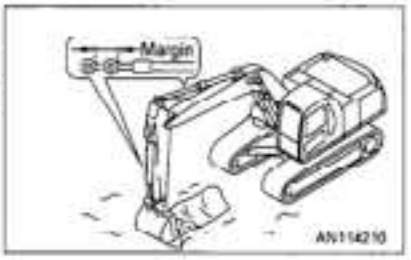
Prohibited operations using travel force

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.



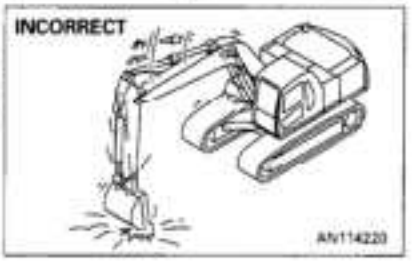
Precautions when operating hydraulic cylinders to end of stroke

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. SERVICE PROCEDURE

24.1 INITIAL 250 HOURS SERVICE

Carry out the following maintenance only after the first 250 hours.

- **REPLACE FUEL FILTER CARTRIDGE AND ADDITIONAL FUEL FILTER CARTRIDGE (OPTION)**
- **CHECK ENGINE VALVE CLEARANCE, ADJUST**

For details of the method of replacing or maintaining, see the section on EVERY 500 HOURS and 2000 HOURS SERVICE.

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• PC220, 220LC

Name	Specifications, use
Narrow bucket	Capacity SAE/CECE 0.72 m³ (0.94 cu.yd)/0.65 m³ Outside width 900 mm (35")
Light duty bucket	Capacity SAE/CECE 1.14 m³ (1.49 cu.yd)/1.0 m³ Outside width 1300 mm (51")
Light duty bucket	Capacity SAE/CECE 1.26 m³ (1.65 cu.yd)/1.1 m³ Outside width 1400 mm (55")
Slope finishing bucket	Capacity SAE/CECE 0.40 m³ (0.52 cu.yd)/0.35 m³ Compacting width 3500 mm (79") Compacting area 2.00 m²
Trapezoidal bucket	Capacity SAE/CECE 0.55 m³ (0.72 cu.yd)/0.5 m³ Outside width 3165 mm (10'5") (45°) 3280 mm (10'9") (45°) 3310 mm (10'10") (45°)
Ripper bucket	Capacity SAE/CECE 0.61 m³ (0.8 cu.yd)/0.55 m³ Outside width 950 mm (37")
Clamshell bucket (Loading)	Capacity SAE/CECE 0.66 m³ (0.86 cu.yd)/0.6 m³ Outside width 866 mm (34") Opening width 1762 mm (70")
Ditch cleaner bucket	Capacity SAE/CECE 0.80 m³ (1.05 cu.yd)/0.7 m³ Outside width 1800 mm (71")
One tooth ripper bucket	Shank width 106 mm (34.2") Crushing depth 800 mm (32")



Name	Specifications, use
Three teeth ripper bucket	Shank width 90 mm (3.5") Crushing depth 640 mm (25")
Track shoes (PC220)	Triple grouser shoe width 700 mm (28") Triple grouser shoe width 800 mm (31'4") Plate shoe width 610 mm (24")
Track shoes (PC220LC)	Triple grouser shoe width 600 mm (24") Triple grouser shoe width 800 mm (31'4") Plate shoe width 610 mm (24")
Short arm	Arm length 2500 mm (8'2") Max. digging depth 6370 mm (20'11")
Short arm	Arm length 2000 mm (6'7") Max. digging depth 5870 mm (19'3")
Long arm	Arm length 3500 mm (11'6") Max. digging depth 7360 mm (24'1")
Head guard	In place where there is danger of falling rocks, always install the head guard to protect the operator.

• PC230, 230LC

Name	Specifications, use
Ripper bucket	Capacity SAE/CECE 0.61 m³ (0.8 cu.yd)/0.55 m³ Outside width 950 mm (37")
One tooth ripper bucket	Shank width 106 mm (4.2") Crushing depth 800 mm (32")
Three teeth ripper bucket	Shank width 90 mm (3.5") Crushing depth 640 mm (25")
Track shoes	Plate shoe width 610 mm (24")

- Long-life tooth, self-sharpening tooth, track frame center guard, arm hydraulic drift prevention valve, additional headlamp, rear lamp, travel alarm etc. are also provided. Please consult your Komatsu distributor.

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