OMPC30006219

Operation & Maintenance Manual

PC3000-6

HYDRAULIC MINING SHOVEL

SERIAL NUMBERS PC3000-6 6219

July 2006

KOMATSU®

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GAS, DUST, STEAM AND SMOKE

- Operate internal combustion engines and fuel operated heating systems only on adequately ventilated premises. Before starting the machine on enclosed premises, make sure that there is sufficient ventilation.
  Observe the regulations in force at the respective site.
- Carry out welding, flame-cutting and grinding work on the machine only if this has been expressly authorized, as there may be a risk of explosion and fire.
- Special care must be taken before welding, flame-cutting and grinding operations are carried out on the counterweight. The filling of the counterweight chambers can create explosive gases which will accumulate in the chambers of the counterweight. These gases must be expelled before welding, flame-cutting and grinding operations are carried out on the counterweight. Danger of explosion.
  Follow the instructions given in PARTS & SERVICE NEWS No. AH04518 for expelling the gases from the counterweight chambers.
- Before carrying out welding, flame-cutting and grinding operations, clean the machine and its surroundings from dust and other inflammable substances and make sure that the premises are adequately ventilated (risk of explosion).

HYDRAULIC AND PNEUMATIC EQUIPMENT

- Work on hydraulic equipment may be carried out only by persons having special knowledge and experience in hydraulic systems.
- Check all lines, hoses and screwed connections regularly for leaks and obvious damage. Repair damage immediately. Splashed oil may cause injury and fire.
- Depressurize all system sections and pressure pipes (hydraulic system, compressed-air system) to be removed in accordance with the specific instructions for the unit concerned before carrying out any repair work.
- Hydraulic and compressed-air lines must be laid and fitted properly. Ensure that no connections are interchanged. The fittings, lengths and quality of the hoses must comply with the technical requirements.

NOISE

- During operation, all sound baffles must be closed.
- Always wear the prescribed ear protectors.

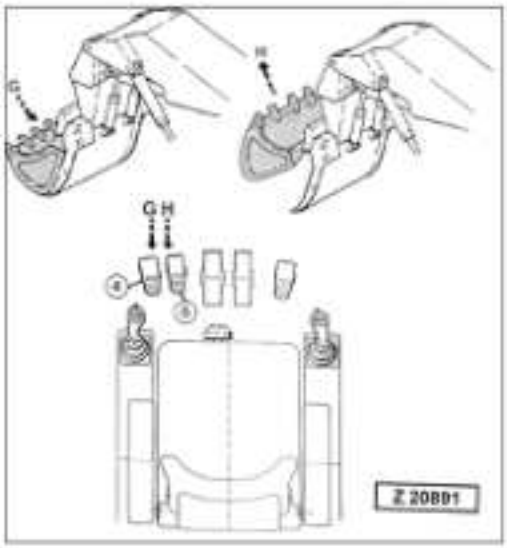
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3.12.3 BOTTOM DUMP BUCKET

NOTICE
The illustration shows a typical construction of control stand and working attachment.
However, the shown operation- and working movements apply to this machine.

OPERATING THE BUCKET CLAM

G	Closing the bottom dump bucket: Depress LH pedal (4)
H	Opening the bottom dump bucket: Depress RH pedal (5)

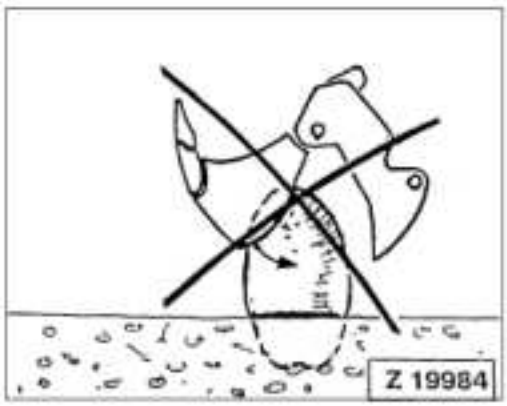


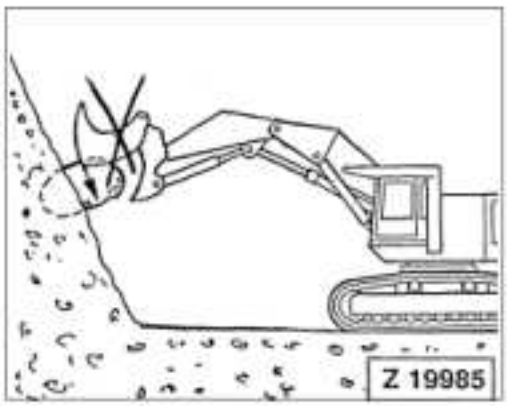
⚠ CAUTION

As soon as the bucket is completely closed, release pedal (4). Otherwise the pressure relief valve of the bucket closing circuit will open resulting in unnecessary loading of the hydraulic system.

⚠ CAUTION

DO NOT use the bucket clam for loosening or removing anchored rocks or other solid objects (illust. Z 19984 and Z 19985), since such operations may result in severe damage to the clam pivot bearings.





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Service Intervals	Service Point	Service	See
Every 1000 operating hours or every 6 months	High strength bolt connections	Check for correct tightening torque and security	page 305
	Hydraulic system	Replace return and pressure filter elements Clean or replace high pressure filter elements Replace breather filter elements Drain sediments	page 337
	PTO (Pump distributor gear) Swing gear and Travel gears	Oil sample analysis	page 351
	Signal horn compressor	Clean and lubricate	page 353
	Hydraulic track tensioning system	Check pressure accumulators	page 355
	Hydraulic oil cooler doors and machinery house doors	Inspect and lubricate door hinges	page 357
	Engine	Maintenance	(1)
	Fire suppression system	Maintenance	(2)
	Air conditioning	Inspect the complete system	(3)

(1) Perform maintenance according to separate Engine Operation an Maintenance Manual filed in volume 2 binder.

(2) Perform inspections according to the separate Manual "FIRE SUPPRESSION SYSTEM" filed in volume 2 binder.

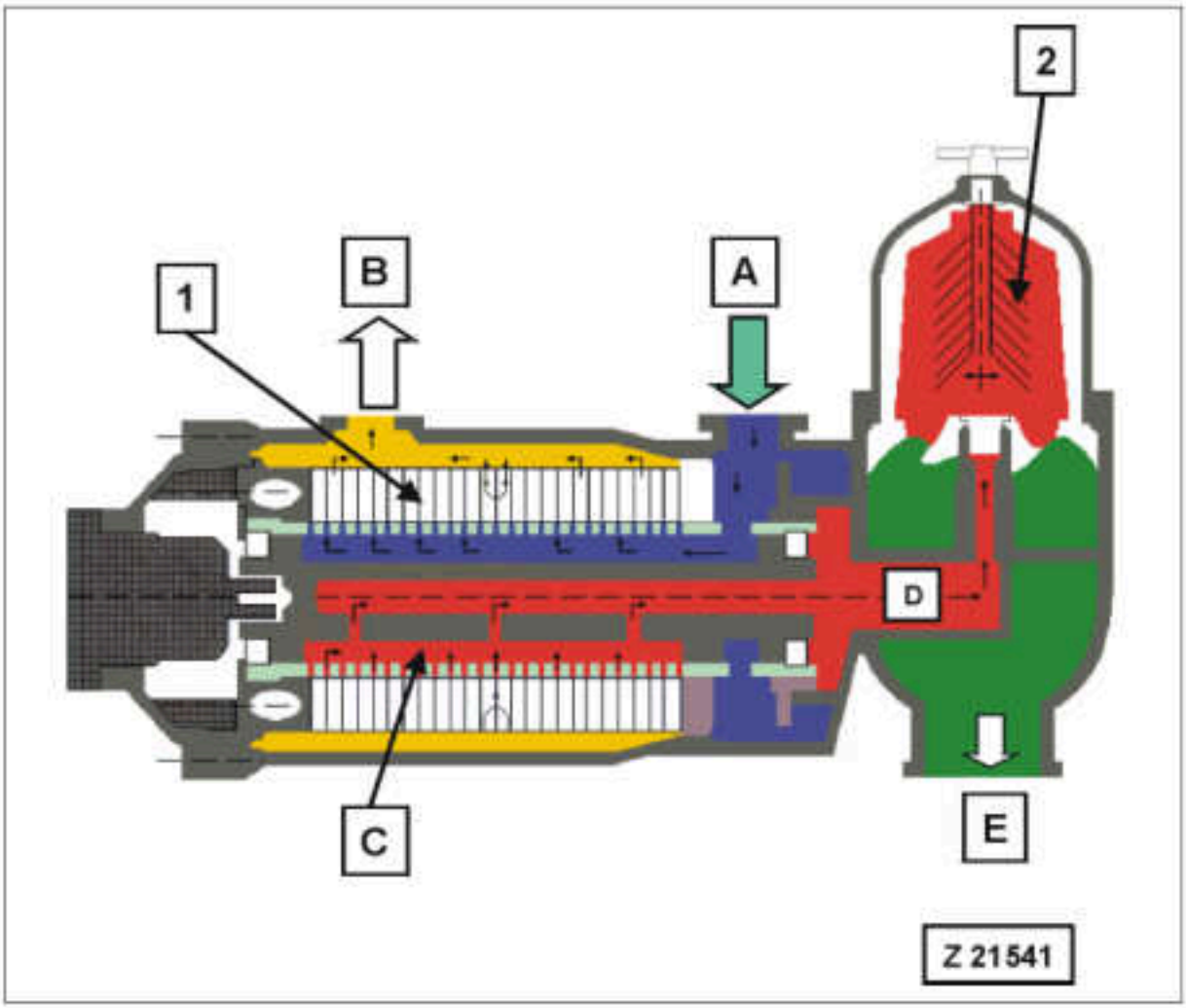
(3) Perform inspections according to the separate Manual "OPERATING INSTRUCTIONS AC" filed in volume 2 binder.

⚠ CAUTION

Carry out initial service according to item 4.6.1.

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Eliminator Engine Oil Filtration System



Legend for illust. Z 21541 (schematic illustration)

(A) Oil inlet from engine (100%)

(B) Oil outlet to engine (95%)

(C) Backflush oil (5%) for cleaning the filter

(D) Oil flow to centrifuge (5%)

(E) Oil flow to engine oil pan (5%)

(1) Stainless steel filter removes particles as small as 20 µm

(2) Centrifugal separator removes particles up to a size of 2 µm

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