TEN00175-06

Operation & Maintenance Manual

HYDRAULIC
EXCAVATOR

PC160LC-7E0

SERIAL NUMBERS 20001 and up

ecot3

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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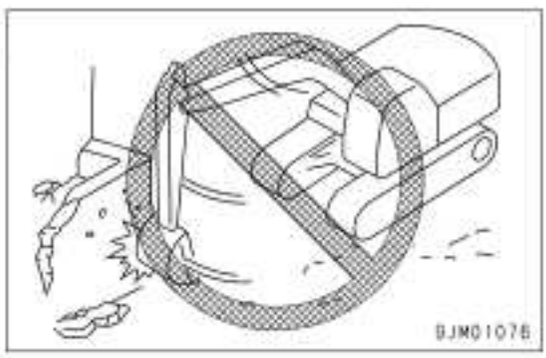
PROHIBITED OPERATIONS

⚠ WARNING

- **If it is necessary to operate the work equipment control lever when the machine is traveling, stop the machine, then operate the control lever.**
- **If any lever is operated when the auto-deceleration is being actuated, the engine speed will suddenly increase, so be careful when operating.**

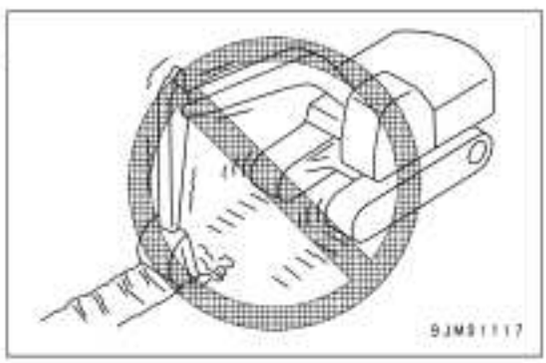
Operations Using Swing Force

Do not use the swing force to compact soil or break objects. This is not only dangerous, but will also drastically reduce the life of the machine.



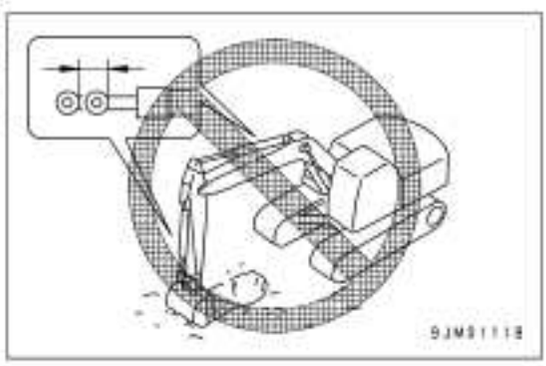
Operations Using Travel Force

Do not dig the bucket into the ground and use the travel force to carry out excavation. This will damage the machine or work equipment.



Prohibition of Operations Using Hydraulic Cylinders to Stroke Ends

If the work equipment is used with the cylinder rod operated to its stroke end, and given impact by some external force, the hydraulic cylinders will be damaged, causing personal injury. Avoid operations with the hydraulic cylinder fully retracted or fully extended.



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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

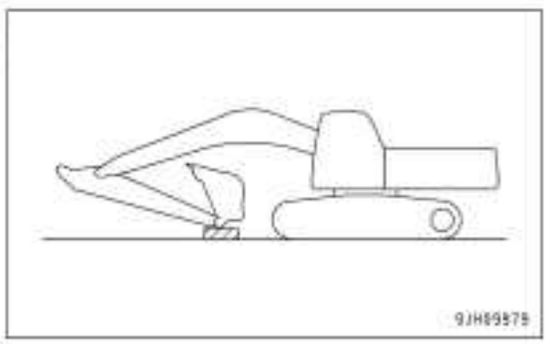
⚠ WARNING

- **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.**

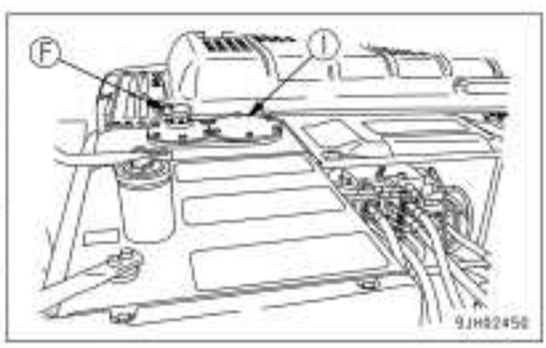
NOTICE

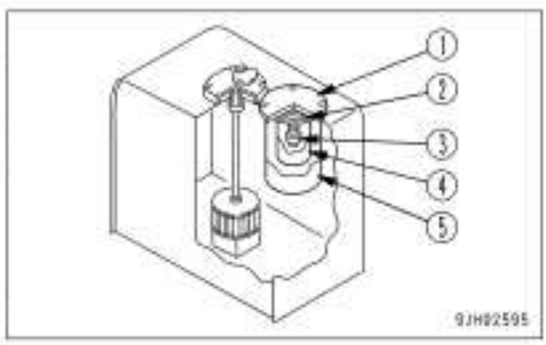
If the machine is equipped with a hydraulic breaker, the hydraulic oil will deteriorate much faster than during normal bucket operations. For details, see "MAINTENANCE INTERVAL FOR HYDRAULIC BREAKER (PAGE 4-17)" when carrying out maintenance.

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 good care then not to let fall the dirt into the hydraulic tank.
5. Clean the removed parts in flushing 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 (PAGE 3-95)" and run the engine at low idle for 10 minutes.
11. Stop the engine.

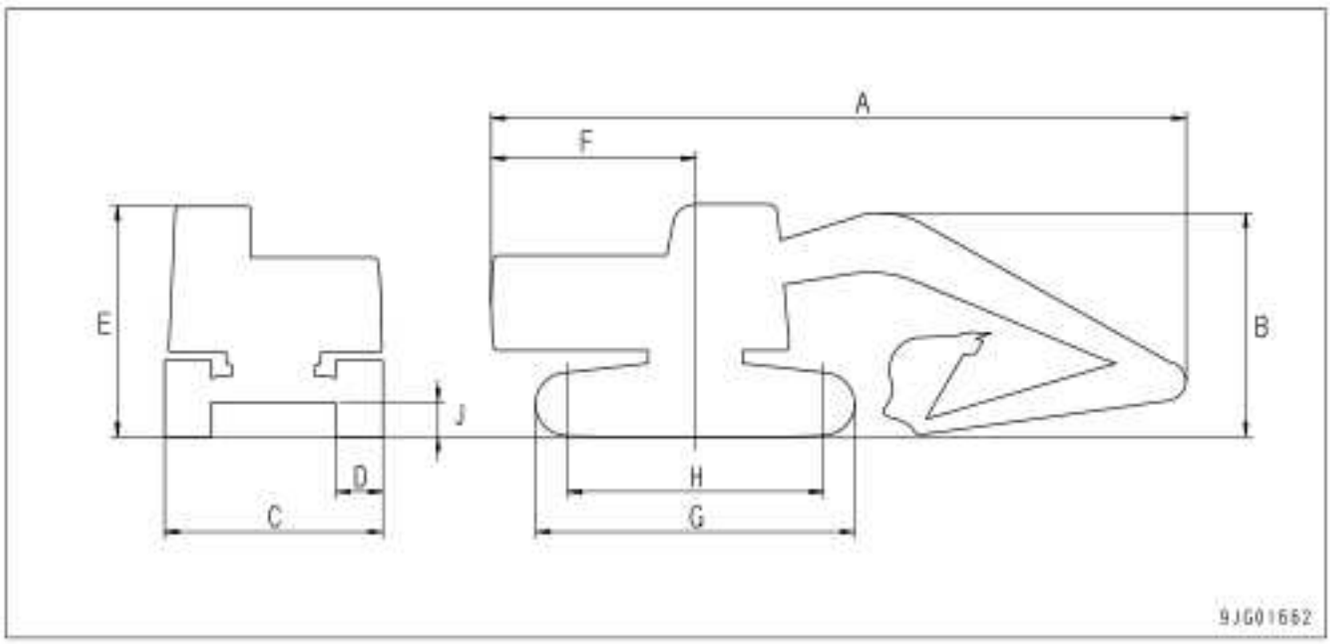




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SPECIFICATIONS

	Item	Unit	PC160LC-7E0
	Operating weight	kg (lb)	16,400 (36,162)
	Bucket capacity	m^3 (cu.yd)	0.65 (0.85)
	Name of engine	-	KOMATSU SAA4D107E-1 diesel engine
	Engine horsepower	kW (HP) / rpm	86 (117)/2,200
A	Overall length	mm (ft in)	8,565 (28'1")
B	Overall height	mm (ft in)	3,025 (9'11")
C	Overall width	mm (ft in)	2,490 (8'2")
D	Track width	mm (ft in)	500 (1'8")
E	Height of cab	mm (ft in)	3,000 (9'10")
F	Radius of upper structure	mm (ft in)	2,435 (7'12")
G	Length of track	mm (ft in)	3,965 (13'0")
H	Tumbler center distance	mm (ft in)	3,170 (10'5")
	Min. ground clearance	mm (ft in)	440 (1'5")
	Travel speed (Low/High)	km/h (MPH)	3.4/5.5 (2.1/5.5)
	Swing speed	rpm	12.0



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