CEAM025306

Operation & Maintenance Manual

PC290LC-10

HYDRAULIC EXCAVATOR

SERIAL NUMBERS PC290LC-10 A25001 and up

ENGINE 6D107E-2

June 2017

KOMATSU®

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PROHIBITED OPERATIONS

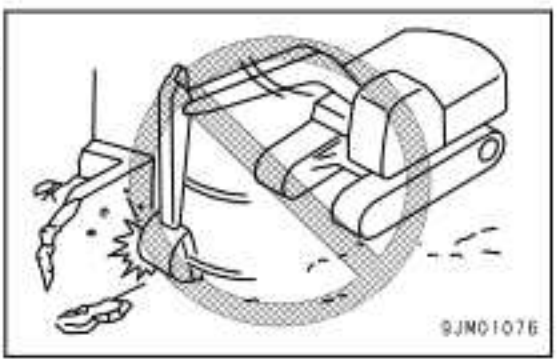
Do not carry out prohibited operations with the machine.

⚠ WARNING

- **Do not operate the work equipment control lever when the machine is traveling.**
- **If travel levers, work equipment levers, or pedals are operated when auto deceleration is being actuated, the engine speed will suddenly increase, so be careful when operating.**
- **Also, there are additional prohibited operations found in this manual. Refer to *Prohibited Operations* on page 2-27 in the Safety Section.**

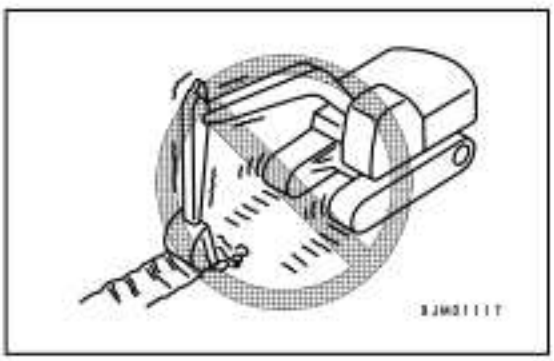
Operations Using Swing Force

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



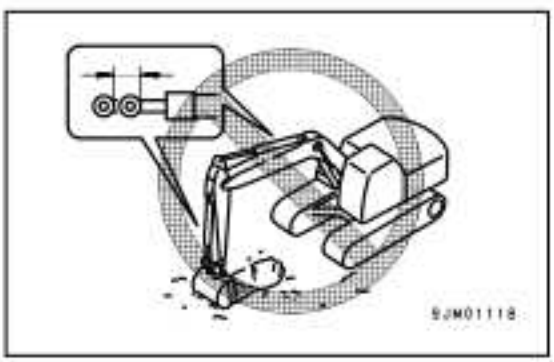
Operations Using Travel Force

Do not use the travel force to carry out excavation by digging the bucket into the ground. This damages the machine or work equipment.



Do Not Use 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 may be damaged, causing personal injury. Avoid operations with the hydraulic cylinder fully retracted or fully extended.



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1. Coolant has the important function of anti-corrosion as well as antifreeze. The use of coolant is essential even in the areas where freezing is not an issue. Komatsu machines are supplied with Non-Amine Engine Coolant (AF-NAC). Non-Amine Engine Coolant (AF-NAC) has excellent anti-corrosion, antifreeze and cooling properties and can be used continuously for two years or 4000 hours. Non-Amine Engine Coolant (AF-NAC) is strongly recommended wherever available.
2. For details of the Non-Amine Engine Coolant (AF-NAC) density, see *Cooling System Cleaning* on page 4-27. Non-Amine Engine Coolant (AF-NAC) is supplied in diluted state, so always fill up with diluted coolant. (Never dilute the Non-Amine Engine Coolant (AF-NAC) with ordinary water.)

Note 5

If this oil is used for the hydraulic system, fuel consumption increases. We strongly recommend HO56-HE for hydraulic oil.

Fluid Refill Capacities

	Specified capacity		Refill capacity	
	Liter	US gal	Liter	US gal
Engine oil pan	25.4	6.71	23.1	6.10
Swing machinery case	8.2	2.17	8.2	2.17
Final drive case (each)	9.0	2.38	8.0	2.11
Damper case	0.65	0.17	0.65	0.17
Hydraulic system	244	64.46	132	34.87
Cooling system	20.6	5.44	20.6	5.44
Fuel tank	400	105.68	-	-

REMARK

Refill capacity *- Total quantity of fluid required to bring the capacity to the full mark after maintenance of oils, filters, or coolants. For DEF and fuel, it is the quantity required to fill from the empty mark to the full mark.*

Specified capacity *- The total quantity of fluid required to bring the fluid level to the full mark of a dry or completely drained system.*

Use of Oils Other Than the Recommended Komatsu Genuine Oil

When using commercially available oils other than Komatsu genuine oil, or when checking the latest specifications, refer to the Komatsu web page or consult your Komatsu distributor.

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MAINTENANCE EVERY 4500 HOURS

Perform the following maintenance for every 4500 hours of service. Maintenance for every 100, 250, and 500 hours of service should be carried out at the same time.

KDPF Cleaning

Komatsu recommends contacting your Komatsu distributor for cleaning of the KDPF.

KCCV Hose Replacement

Contact your Komatsu distributor to have the KCCV hose replaced.

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