SEAM002201

Operation & Maintenance Manual

PC100-6
PC120-6
PC130-6 MIGHTY

HYDRAULIC EXCAVATOR

SERIAL NUMBERS
PC100-6 :40001
PC120-6 :45001 and up
PC130-6 :45001

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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21. STANDARD TIGHTENING TORQUES FOR BOLTS AND NUTS

21.1 INSTRODUCTION OF NECESSARY TOOLS

The following tools are needed when carrying out maintenance.

No.	Name of tool	Part No.	Remarks
1	Wrench		Applicable width across flats (S_1-S_2)
		09002-01417	14mm – 17mm
		09002-01922	19mm – 22mm
		09002 02427	24mm – 27mm
		09002-03032	30mm – 32mm
2	Screwdriver	09033-00190	Interchangeable flat-head and cross-head type
3	Socket wrench set	09020-10286	Applicable width across flats 10 mm, 13 mm, 14 mm, 17 mm, 19 mm, 22 mm, 24 mm Extension, Handle
4	Wrench	09002-03641	Applicable width across flats 36 mm – 41 mm
5	Hexagon wrench	09007-01040	Applicable width across flats 10 mm
		09007-00836	Applicable width across flats 8 mm
6	Filter wrench	09019-10080	For fuel filter cartridge
7	Filter wrench	09019-10093	For engine oil filter cartridge
8	Grease pump	07952-70002	For greasing work
9	Grease cartridge	07950-90403	(Lithium base grease, 400 g)

If any of the above tools are broken, please order them from your Komatsu distributor.

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

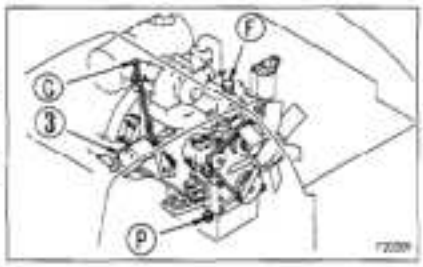
Perform this maintenance every 500 hours on machines equipped with bypass filter.

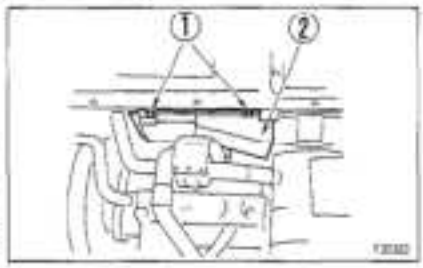
⚠WARNING

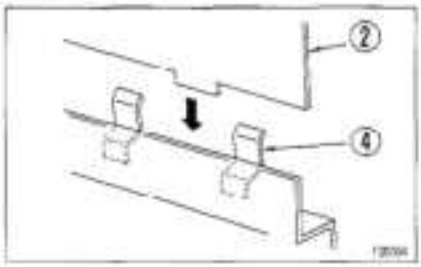
The oil is at high temperature after the engine has been operated, so never change the oil immediately after finishing operations. Wait for the oil to cool down before changing it.

Prepare the following
- Container to catch drained oil: Min 11 ℓ capacity
- Refill capacity: 11 ℓ (2.9 US gal, 2.4 UK gal)
- Filter wrench

1. Remove the cover on the bottom of the machine.
2. Place a drain container under drain plug Ⓟ located on the bottom of the machine.
3. Loosen drain plug Ⓟ slowly to avoid getting oil on yourself, and drain the oil.
4. Check the drained oil, and if there are excessive metal particles or foreign material, please contact your Komatsu distributor.
5. Install drain plug Ⓟ.
6. Open the engine hood, remove 2 bolts ①, then remove cover ②.
7. Using a filter wrench from the top of the engine, turn filter cartridge ③ to the left. A large amount of oil will come out if this is done immediately after the engine is stopped, so wait for 10 minutes before carrying out this operation.
8. Clean the filter holder, coat the seal surface of the new filter cartridge with engine oil (or coat it thinly with grease), then install it.
9. When installing, bring the packing surface into contact with the seal surface of the filter holder, then tighten it at least a further 1/2 turn.
10. When assembling cover ②, insert it into the 2 catches ④ at the bottom to install it.







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30.3 OPERATION

⚠ WARNING

- **Be careful when operating the pedal in the deceleration range. The engine speed will rise suddenly.**
- **Do not put your foot on the pedal except when operating the pedal. If rest your foot on the pedal during operations, and it is depressed by accident, the attachment may move suddenly and cause serious damage or injury.**

Operate the attachment as follows.

30.3.1 WHEN USING BREAKER

Set the lock pin at the FREE position, and depress the right pedal in the direction of the arrow to operate the breaker.
Set the working mode to the B.O. (breaker operation mode) position.



NOTICE

Do not use the heavy-duty operation mode for breaker operations. If the breaker is used in the heavy-duty operation mode there is danger that the hydraulic equipment may be damaged.

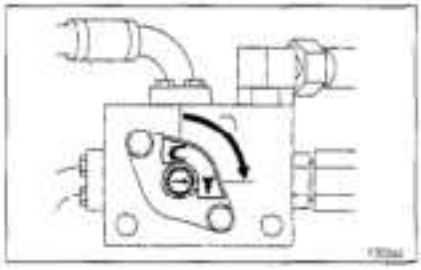
Precautions when using

- Check that the stopper valve is in the FREE position.
- Check that the selector valve is in the position for using the breaker.



For details of the path followed by the oil, see "30.2.2 HYDRAULIC CIRCUIT".

- Consult with the attachment maker to decide whether it is necessary to install an accumulator for the attachment circuit.
- For details of other precautions when handling the breaker, read and use correctly the instruction manual provided by the breaker manufacturer.
- When using the breaker, the hydraulic oil deteriorates more rapidly than for normal operations, so change the hydraulic oil and replace the element at a shorter interval.
- For details, see "23.2 MAINTENANCE INTERVAL WHEN USING HYDRAULIC BREAKER".



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