Operation & Maintenance Manual

TEN00039-03

GALEO

PC400,400LC-7
PC450,450LC-7

HYDRAULIC EXCAVATOR

SERIAL NUMBERS PC400,400LC-50288 and up
PC450,450LC-20235

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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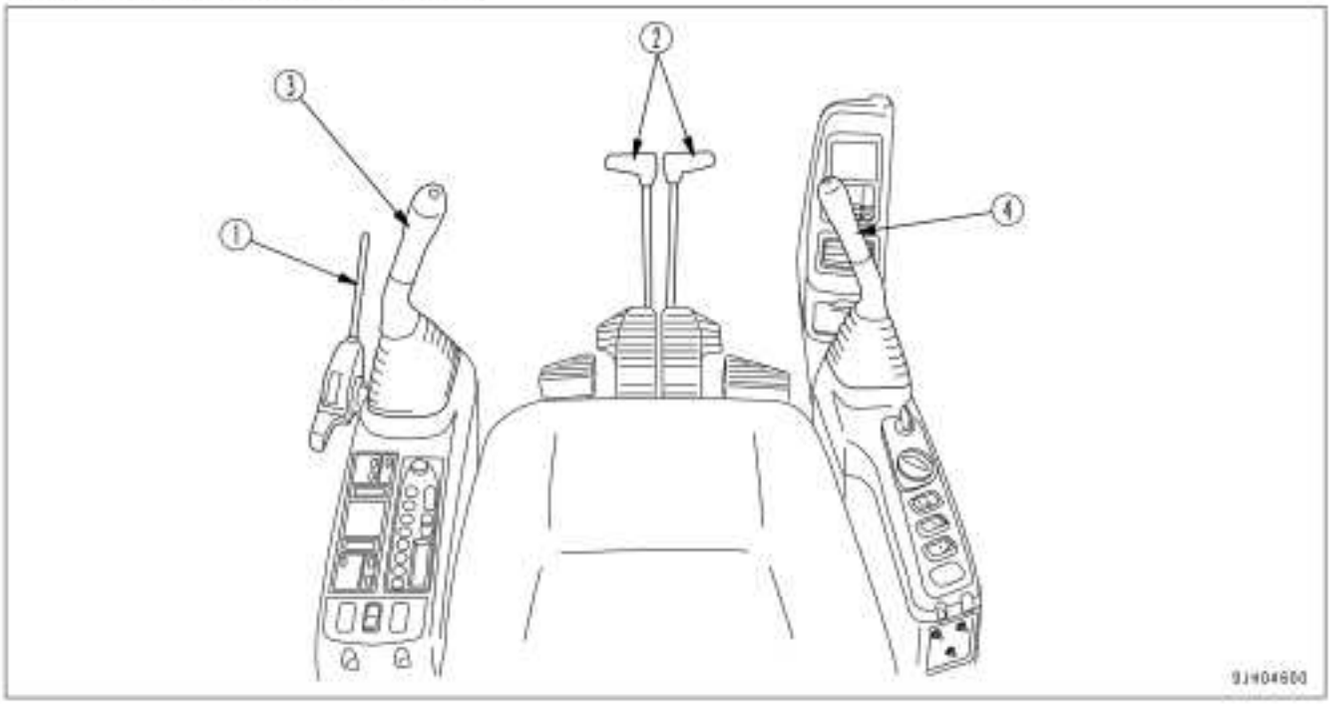
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CONTROL LEVERS AND PEDALS

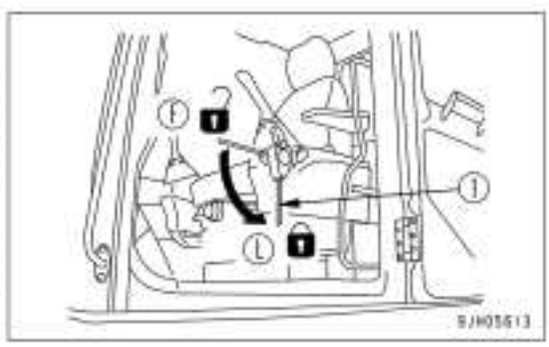


(1) Lock lever
(2) Travel levers
(with a pedal and auto-deceleration system)
(3) Left work equipment control lever
(with auto-deceleration system)
(4) Right work equipment control lever
(with auto-deceleration system)

Lock Lever

WARNING

- **When leaving the operator's compartment, set the lock lever (1) securely to the LOCK position (L). If the lock lever is not at the LOCK position (L) and the control levers are touched by mistake, it may lead to serious personal injury.**
- **Check that the condition of the lock lever (1) is as shown in the diagram.**
- **When pulling or pushing the lock lever (1) up, be careful not to touch the work equipment control lever.**



This lever (1) is a device to lock the work equipment, swing, travel, and attachment (if equipped) control levers.
Push the lever (1) down to apply the lock.
This lock lever is a hydraulic lock, so even if it is in the lock position (L), the work equipment control lever and travel lever will move, but the work equipment, travel motor, and swing motor will not work.

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		Engine oil pan	Swing machinery case	Final drive case (Each)	Damper case	Hydraulic oil system	Cooling system	Fuel tank
Specified capacity	Liter	42	20	12	1.07	472	36	650
	US gal	11.10	5.28	3.17	0.28	124.70	9.51	171.73
Refill capacity	Liter	38	20	12	1.07	248	36	-
	US gal	10.04	5.28	3.17	0.28	65.2	9.51	-

REMARK

- When fuel sulphur content is less than 0.5%, change oil in the oil pan according to the periodic maintenance hours described in this manual.
  Change oil according to the following table if fuel sulfur content is above 0.5%.

- When starting the engine with an atmospheric temperature of lower than 0°C (32°F), be sure to use engine oil of SAE10W, SAE10W-30 and SAE15W-40, even though the atmospheric temperature goes up to 10°C (50° F) more or less during the day.

- Use API classification CD as engine oil and if API classification CC, reduce the engine oil change interval to half.

- There is no problem if single grade oil is mixed with multigrade oil (SAE10W-30, 15W-40), but be sure to add single grade oil that matches the temperature range in the table.

- We recommend Komatsu genuine oil which has been specifically formulated and approved for use in engine and hydraulic work equipment applications.

Specified capacity: Total amount of oil including oil for components and oil in piping.

Refill capacity: Amount of oil needed to refill system during normal inspection and maintenance.

ASTM: American Society of Testing and Material
SAE: Society of Automotive Engineers
API: American Petroleum Institute

Fuel sulfur content	Engine oil change interval
0.5 to 1.0%	1/2 of regular interval
Above 1.0%	1/4 of regular interval

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EVERY 500 HOURS MAINTENANCE

Maintenance for every 250 hours service should be carried out at the same time.

REPLACE FUEL FILTER CARTRIDGE

(Machines equipped without additional fuel filter cartridge)

⚠ WARNING

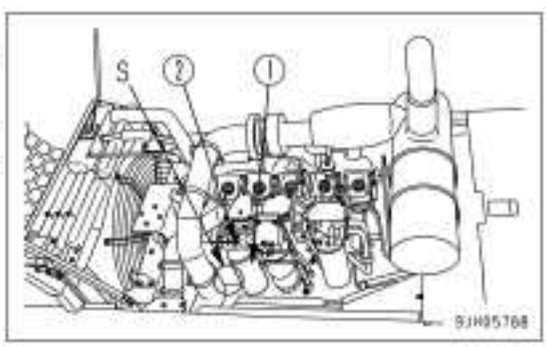
- **After the engine has been operated, all parts are at high temperature, so do not replace the filter immediately. Wait for all parts to cool down before starting the operation.**
- **High pressure is generated inside the engine fuel piping system when the engine is running.**
  When replacing the filter, wait for at least 30 seconds after stopping the engine to let the internal pressure go down before replacing the filter.
- **Do not bring any fire or flame close.**
- **Be careful when opening the air bleed plug in the fuel filter head. It is still under pressure, so fuel may spurt out.**

NOTICE

- **Genuine Komatsu fuel filter cartridges use a special filter that has highly efficient filtering ability. When replacing the filter cartridge, always use a genuine Komatsu part.**
- **The common rail fuel injection system used on this machine consists of more precise parts than the conventional injection pump and nozzle.**
  If any part other than a genuine Komatsu filter cartridge is used, dust or dirt may get in and cause problems with the injection system. Always avoid using substitute parts.
- **When carrying out inspection or maintenance of the fuel system, pay more attention than normal to the entry of dirt. If dirt is stuck to any part, use fuel to wash it off completely.**

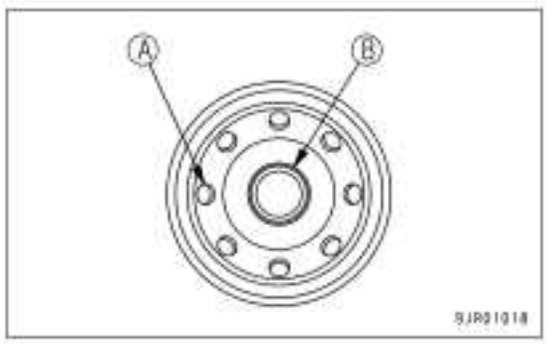
- Container to catch the oil
- Prepare a filter wrench

1. Set the container to catch the fuel under the filter cartridge.
2. Using a filter wrench, turn filter cartridge (1) counterclockwise on remove it.
3. Clean the filter holder, coat the packing surface of the new filter cartridge thinly with oil, then install the filter cartridge to the filter holder.



NOTICE

- **Do not fill the fuel filter cartridge with fuel.**
- **Remove cap (B) and install the fuel filter.**



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