Operation & Maintenance Manual

UENAM00773

PC160LC-8
PC190LC-8
PC190NLC-8

HYDRAULIC EXCAVATOR

SERIAL NUMBER

PC160LC-8 - K50001 and up
PC190LC-8 - K50001 and up
PC190NLC-8 - K50001 and up

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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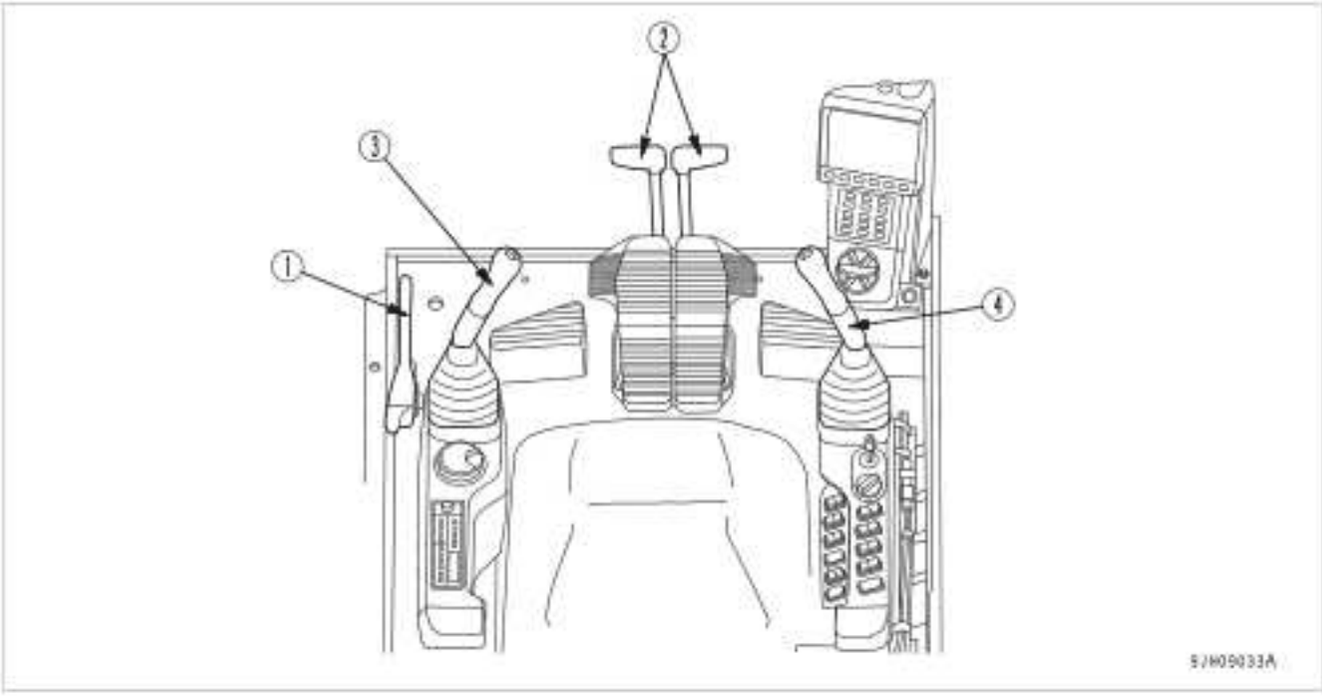
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CONTROL LEVERS AND PEDALS



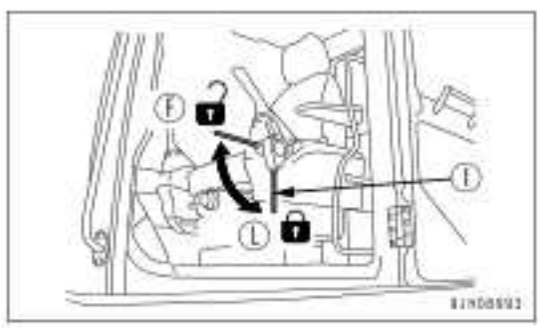
(1) Lock lever
(2) Travel levers (with pedal and auto-deceleration system)
(3) Left work equipment control lever (with auto-deceleration system)
(4) Right work equipment control lever (with auto-deceleration system)

Lock Lever

⚠ WARNING

- **When standing up from the operator's seat, push lock lever (1) down securely to set it to LOCK position (L). If lock lever (1) is not in LOCK position (L) and the control levers are touched by mistake, it may lead to serious personal injury.**
- **Check lock lever (1) is placed securely at LOCK position (L).**
- **Be careful not to touch the work equipment control levers when pulling lock lever (1) up or pushing it down.**

This lever (1) is a device to lock the work equipment, swing, travel, and attachment (if equipped) control levers.



(L) LOCK position: Even when levers or attachment control pedal (if equipped) are operated, machine does not move

(F) FREE position: Machine moves according to operation of levers or attachment control panel (if equipped)

REMARK
This lock lever is of hydraulic lock type. Accordingly, when it is in the lock position (L), the control levers or control pedals move but the machine does not move.

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MAINTENANCE PROCEDURE

INITIAL 250 HOURS MAINTENANCE (ONLY AFTER THE FIRST 250 HOURS)

Carry out the following maintenance only after the first 250 hours of operation on new machines.

- REPLACE FUEL PRE-FILTER CARTRIDGE

For details of the method of maintaining, see EVERY 500 HOURS MAINTENANCE.

INITIAL 500 HOURS MAINTENANCE (ONLY AFTER THE FIRST 500 HOURS)

Carry out the following maintenance only after the first 500 hours of operation on new machines.

- REPLACE FUEL MAIN FILTER CARTRIDGE

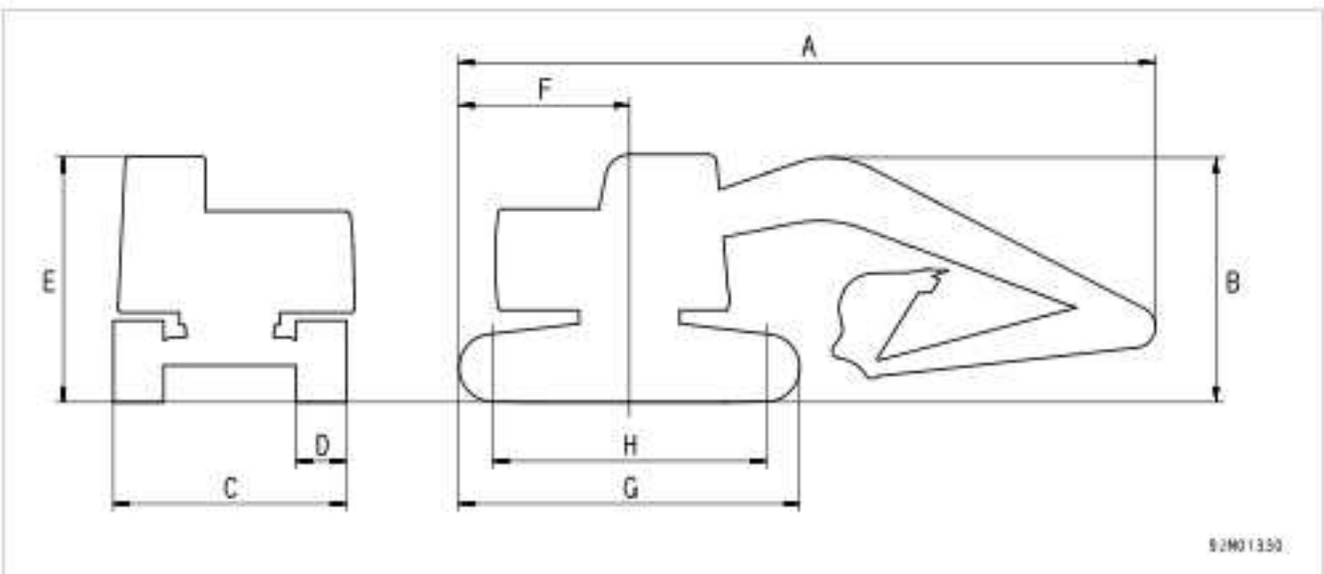
For details of the method of replacing or maintaining, see the section on EVERY 1000 HOURS SERVICE.

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SPECIFICATIONS

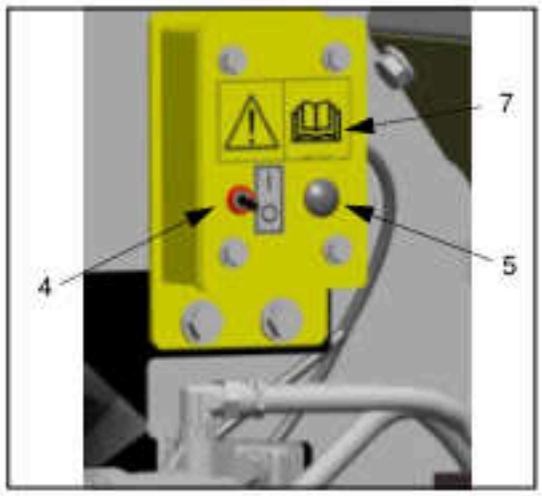
PC160LGP-8

	Item	Unit	PC160LGP-8
	Operating weight 1-pc boom (1000, 1200, 1400mm shoe)	kg	19750, 20350, 20950
	Operating weight 2-pc boom (1000, 1200, 1400mm shoe)	kg	20450, 21050, 21650
	Bucket capacity	m^3	0.65
A	Overall length	mm	8,565
B	Overall height	mm	3,050
C	Overall width (1000, 1200, 1400mm shoe)	mm	3580, 3780, 3980
D	Track width	mm	1000, 1200, 1400
E	Height of cab	mm	3,030
F	Radius of upper structure	mm	2,435
G	Length of track	mm	4640
H	Tumbler centre distance	mm	3845
	Min. ground clearance	mm	440
	Travel speed (Low/High)	km/h	2.2/3.8



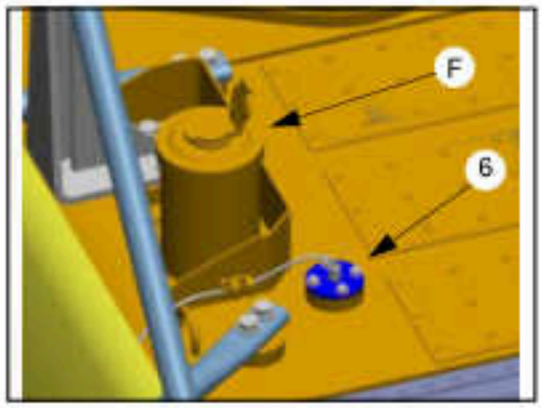
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3. **Refuel Pump with Auto Shut-off Refuel System.**
Refuel Switch Box (7) is located on the right hand side pump compartment. Switch ON the master switch of the refuel system (4) on the refuel switch box. To start refuelling press switch (5) once. Refuelling will continue automatically until the tank has reached capacity (float switch (6) will reach its limit and the pump will stop). It is important to ensure the machine is parked on level ground and monitor refuelling to avoid fuel overfill or spillage.



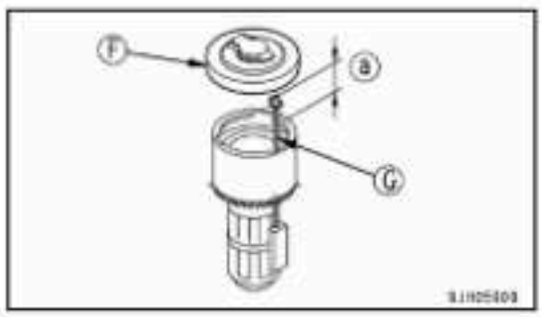
Refuelling can be stopped at any time by turning off the master switch (4).

If more fuel is needed in the fuel tank after the float switch has stopped the pump, press and hold switch (5). When switch (5) is pressed and held, the refuel pump will fill tank. Releasing switch (5) will stop the refuel pump in this override condition. When using this override, the level of the tank must be monitored to prevent overfilling and fuel spillage. If fuel is allowed to overflow stop refuelling immediately by turning off the master switch



After finishing refuelling make sure the master switch (4) is returned to the OFF position.

4. After refuelling is complete:
(a) Push float gauge (G) straight down with fuel filler cap (F). be careful not to get the float gauge (G) caught in the tab of the fuel filler cap (F) and tighten fuel filler cap (F) securely.



(b) Tighten strainer valve cap (H) to the closed position (K) to prevent leakage of fuel left in the hose.

(c) Replace the fuel hose into storage tray (3).



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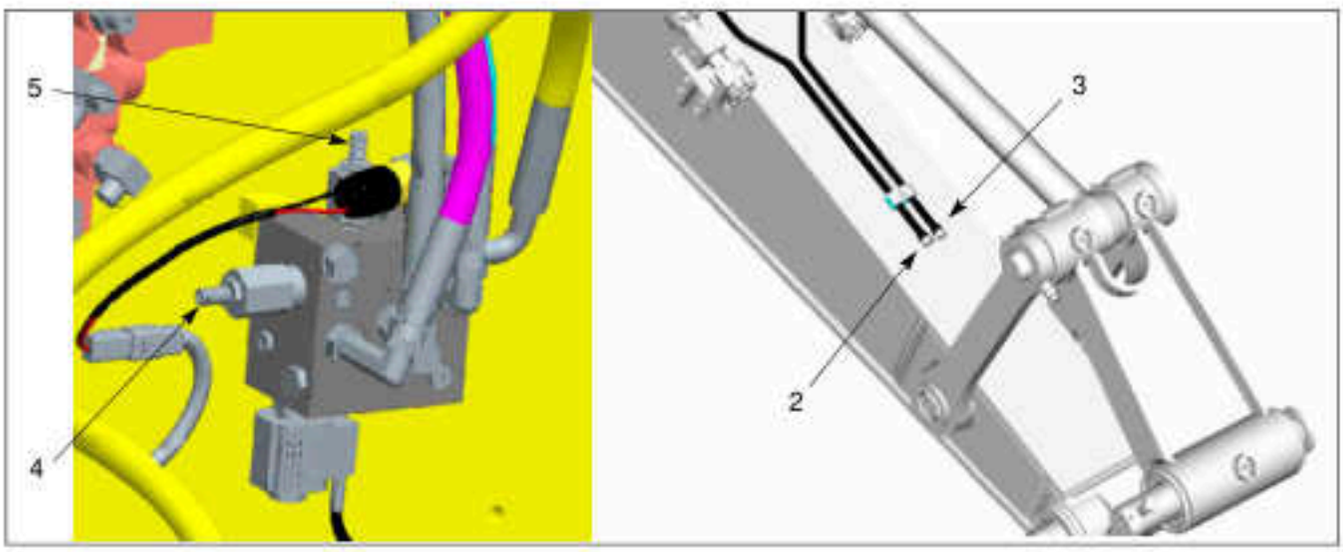
HYDRAULIC QUICK COUPLER PIPING

⚠ WARNING

Quick coupler operation can be dangerous. There is a risk of death to exposed persons. Follow these instructions strictly.

1. Use only quick couplers which comply with European standard EN474. In particular, it must be possible to confirm from the operator's position that the locking of the attachment or bucket has been completed.
2. Use only quick couplers which include a pilot operated check valve in the locking cylinder. This is to ensure that there is no risk of the bucket or attachment coming loose in the case of loss of hydraulic pressure. If in doubt consult the manufacturer of the quick coupler.
3. Read the instruction manual of the quick coupler carefully and follow the recommendations. If in doubt about the installation or operation consult your Komatsu dealer.
4. The machine is fitted with a twin pressure regulating valve block.
   Pressure regulation valve (4) and (5) allow the attachment pressure and the release pressure for the quick coupler to be limited according to the coupler manufacturer's recommendation respectively.
   Maximum circuit pressure 34.3 MPa (350 kgf/cm^2).
5. Ensure that the quick coupler is installed by a suitably qualified technician. If in doubt contact your Komatsu dealer.

LOCATIONS



1. Switch (See following page)
2. Piping (quick coupler lock direction)
3 Piping (quick coupler release direction)
4. Adjustable pressure regulating valve (Attach.)
5. Adjustable pressure regulating valve (Release)

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