TEN00145-04

Operation & Maintenance Manual

PC308USLC-3E0

HYDRAULIC EXCAVATOR

SERIAL NUMBERS PC308USLC-3E0 30001- 30257

ENGINE SAA6D107E-1

August 2011

KOMATSU

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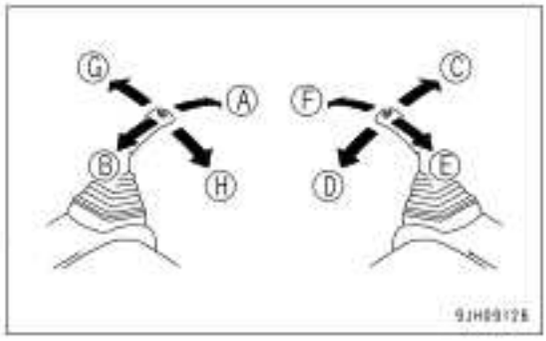
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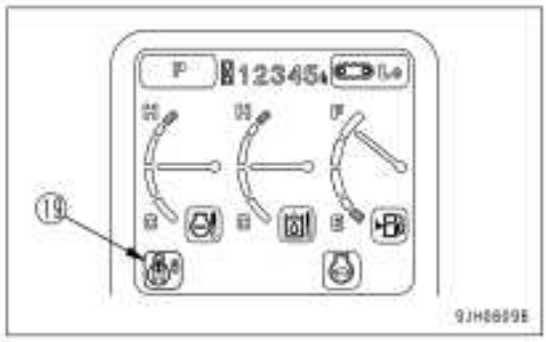
17. Before starting operations, repeat the following operations slowly 3 to 5 times to circulate warm oil through the control circuits.

- Boom operation RAISE (E) ⟷ LOWER (F)
- Arm operation IN (B) ⟷ OUT (A)
- Bucket operation CURL (D) ⟷ DUMP (C)

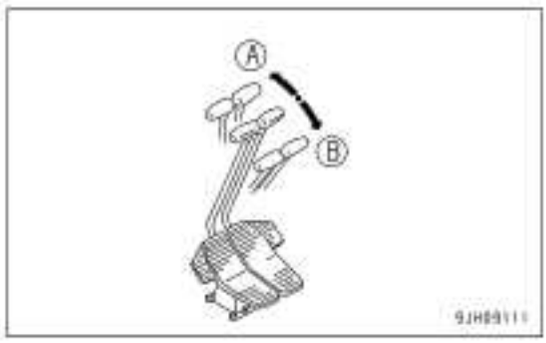


When carrying out swing operations, release swing lock switch (2), check that swing lock monitor (19) goes out, then operate the swing.

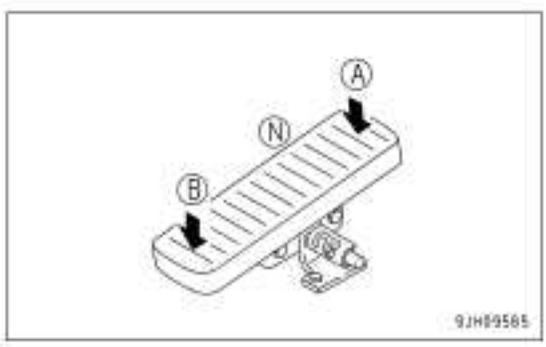
- Swing operation Left (G) ⟷ Right (H)



- Travel (Lo) operation FORWARD (A) ⟷ REVERSE (B)



- Attachment operation One way (A) ⟷ Other way (B)



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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.

INITIAL 1000 HOURS MAINTENANCE (ONLY AFTER THE FIRST 1000 HOURS)

Carry out the following maintenance only after the first 1000 hours of operation on new machines.

- Check engine valve clearance, adjust

  Special tools are needed for inspection and maintenance, so contact your Komatsu distributor.

For details of the method of replacing or maintaining, see the section on EVERY 2000 HOURS SERVICE.

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HYDRAULIC CIRCUIT

NOTICE

- **When a breaker is installed, it is necessary for the return circuit to return directly to the return filter, so always use B mode. Do not use any other mode.**
- **The standard set pressure of the service valve safety valve is set as follows when the machine is shipped from the factory.**
  When B mode is selected: 20.6 MPa (210 kg/cm^2, 2982 PSI)
  When P or E mode is selected: 27.5 MPa (280 kg/cm^2, 3976 PSI)
  Depending on the attachment, it may be necessary to adjust the pressure. In this case, please ask your Komatsu distributor to carry out the adjustment.

Switching Hydraulic Circuit

- Depending on the type of attachment, set the working mode on the monitor as follows.
- The set pressure of the safety valve in the service valve and the hydraulic circuit switch is according to the working mode selected.

Attachment	Working mode	Hydraulic circuit	Set pressure of service safety valve
Breaker or other attachment with one-way circuit	B mode	Return circuit automatically switched so that it does not pass through control valve	When shipped from factory: 20.6 MPa (210 kg/cm^2, 2980 PSI)
Crusher or other attachment with two-way circuit	P mode or E mode	Return circuit automatically switched so that it passes through control valve	When shipped from factory: 27.4 MPa (280kgf/cm^2, 3980 PSI)

Adjusting Oil Flow

Depending on the attachment, it is necessary to change the oil flow in the service circuit.
For details of setting the oil flow, see "ATTACHMENT OPERATIONS (PAGE 6-16)".

Switching Between Breaker and General Attachment

- When a possible attachment (if equipped) is installed and B mode is selected:
  1) The circuit becomes a circuit for breaker operation (1-way circuit).
  2) The hydraulic oil flowing in the breaker circuit flows to the additional filter for the breaker.
  3) The relief valve is set to a lower pressure.
     When shipped from factory: 20.6 MPa (210 kg/cm^2, 2980 PSI)
  4) It is possible to adjust the maximum flow with the select mode.

- When a possible attachment (if equipped) is installed and P mode or E mode is selected:
  1) The circuit becomes a circuit for crusher operation (2-way circuit).
  2) The hydraulic oil flowing in the crusher circuit does not flow to the additional filter for the breaker.
  3) The relief valve is set to a higher pressure.
     When shipped from factory: 27.5 MPa (280 kg/cm^2, 3976 PSI)
  4) It is possible to adjust the maximum flow with the select mode.

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