Operation & Maintenance Manual

UEAM001704

PC210-7K
PC210LC, PC210NLC-7K
PC230NHD-7K
PC240LC, PC240NLC-7K
HYDRAULIC EXCAVATOR

SERIAL NUMBER	PC210-7K	- K40001 and up
	PC210LC-7K	- K40001 and up
	PC210NLC-7K	- K40001 and up
	PC230NHD-7K	- K40001 and up
	PC240LC-7K	- K40001 and up
	PC240NLC-7K	- K40001 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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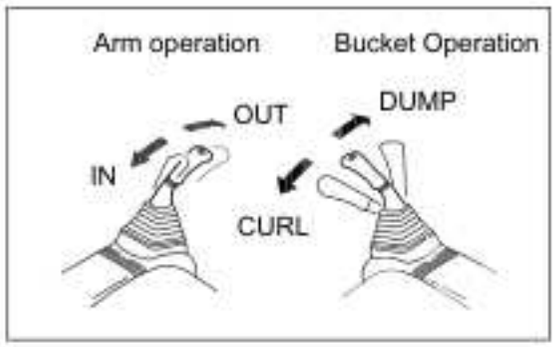
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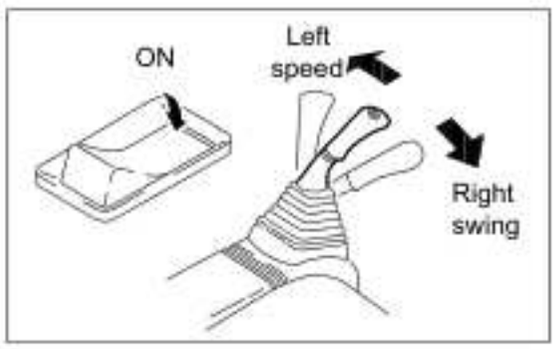
3. Operate bucket control lever (3) and arm control lever (4) slowly to move the bucket cylinder and arm cylinder to the ends of their stroke.

4. Carry out bucket and arm operation for 5 minutes at full stroke, alternating between bucket operation and arm operation at 30 second intervals.

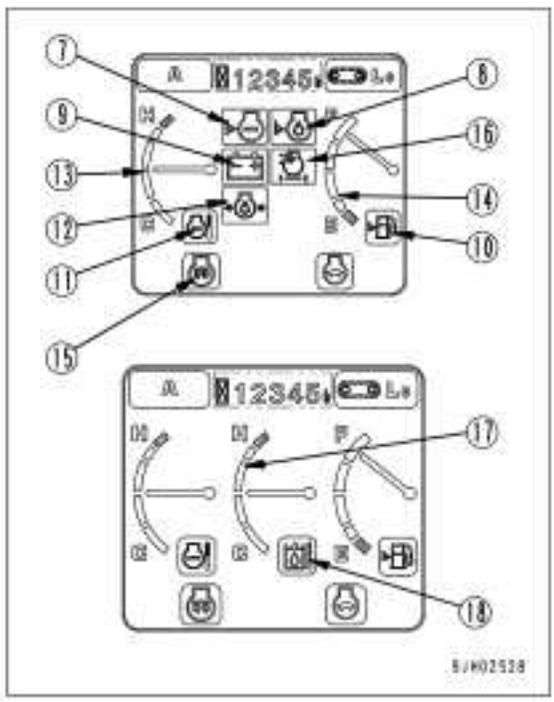


REMARK
If swing lock switch (5) is set to the ON position, you can raise the oil temperature faster.

NOTICE
When the work equipment is retracted, take care that it does not interfere with the machine body or ground.

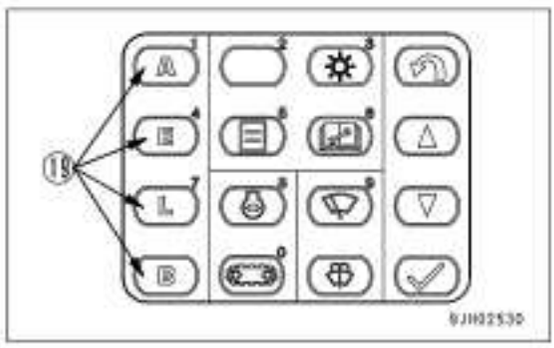


5. After carrying out the warming-up operation, check that all the gauges on machine monitor (6) and the caution lamps are in the following conditions.
   - Radiator water level monitor (7): OFF
   - Engine oil level monitor (8): OFF
   - Charge monitor (9): OFF
   - Fuel level monitor (10): Green display
   - Engine water temperature monitor (11): Green display
   - Engine oil pressure monitor (12): OFF
   - Engine water temperature gauge (13): Indicator in black range
   - Fuel gauge (14): Indicator in black range
   - Preheating monitor (15): OFF
   - Air cleaner clogging monitor (16): OFF
   - Hydraulic oil temperature gauge (17): Indicator in black range
   - Hydraulic oil temperature monitor (18): Green display
6. Check that there is no abnormal exhaust gas color, noise, or vibration. If any abnormality is found, repair it.



7. If air cleaner clogging monitor (16) is lit up, clean or replace the element immediately.
   For details of the method of cleaning the element, see "CHECK, CLEAN AND REPLACE AIR CLEANER ELEMENT (PAGE 224)".

8. Use working mode switch (19) on machine monitor (6) to select the working mode to be used.



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MAINTENANCE INFORMATION

Do not carry out any inspection and maintenance operation that is not found in this manual.

SERVICE METER READING

Check the service meter reading every day to see if the time has come for any necessary maintenance to be carried out.

KOMATSU GENUINE REPLACEMENT PARTS

Use Komatsu genuine parts specified in the Parts Book as replacement parts.

KOMATSU GENUINE LUBRICANTS

Use Komatsu genuine oils and grease. Choose oils and grease with proper viscosities specified for ambient temperature.

WINDSHIELD WASHER FLUID

Use automobile windshield washer fluid, and be sure not to let any dirt get into it.

FRESH AND CLEAN LUBRICANTS

Use clean oil and grease. Also, keep the containers of the oil and grease clean. Keep foreign materials away from oil and grease.

CHECK DRAINED OIL AND USED FILTER

After oil is changed or filters are replaced, check the old oil and filters for metal particles and foreign materials. If large quantities of metal particles or foreign materials are found, report to the person in charge, and carry out suitable action.

FUEL STRAINER

If your machine is equipped with a fuel strainer, do not remove it while fueling.

WELDING INSTRUCTIONS

- Turn off the engine starting switch.
- Do not apply more than 200V continuously.
- Connect grounding cable within 1m from the area to be welded. If grounding cable is connected near instruments, connectors, etc., the instruments may have troubles.
- Avoid seals or bearings from being between the area to be welded and the position of grounding point.
- Do not use the area around the work equipment pins or the hydraulic cylinders as the grounding point.

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EXPLANATION OF LIFTING CAPACITY CHART (PC230NHD-7K)

LEGEND
A : Reach from swing centre
B : Bucket hook height

OF : Lifting capacity (rating overfront)
OS : Lifting capacity (rating overside)

LEGEND

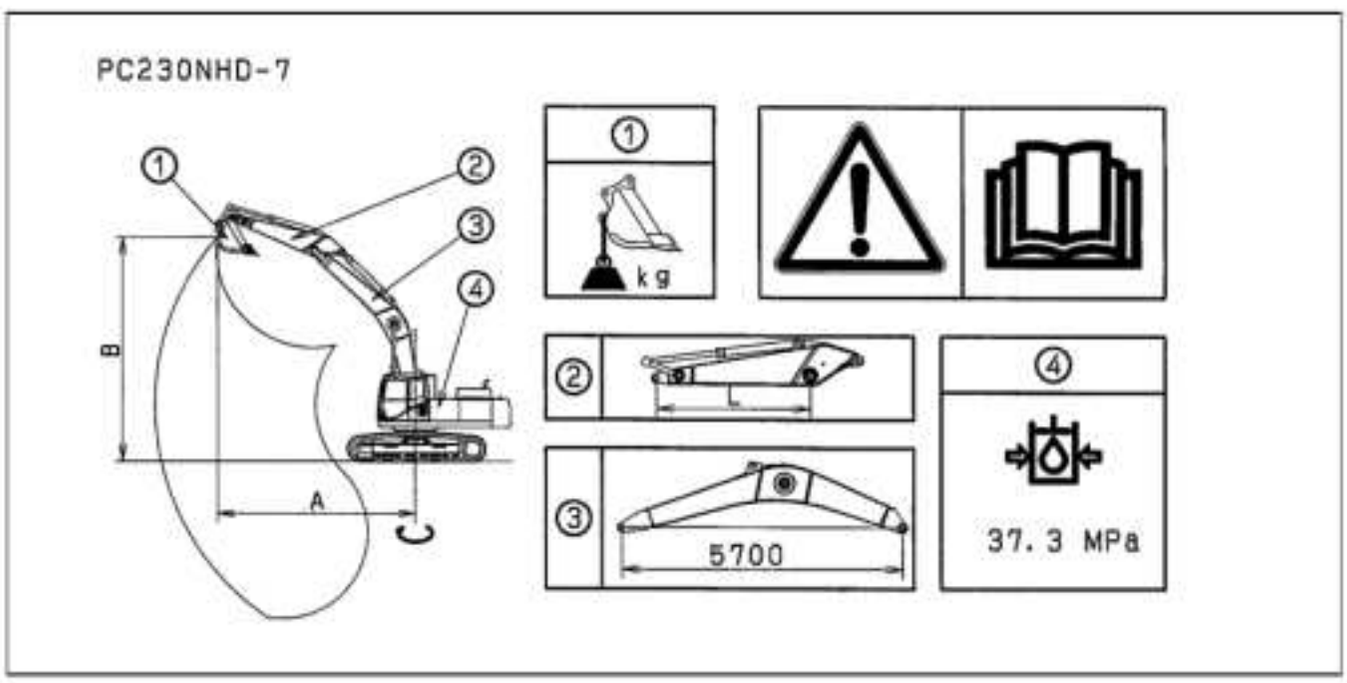
(1) Position of lifting point
(2) Arm length:
(3) Boom length
(4) Hydraulic pressure: 37.2 MPa

WORKING CONDITIONS:

- WITH BUCKET (0.96m^3 CECE).(760 kg)
- IF OBJECT HANDLING IS PERFORMED WITH OTHER TOOL INSTALLED, THE WEIGHT DIFFERENCE OF THE TOOL SHALL BE DEDUCTED FROM THE VALUES OF THIS TABLE.
- WITH FULLY EXTENDED BUCKET CYLINDER.
- ON A COMPACT HORIZONTAL LEVEL GROUND.

WITH 550 mm WIDTH SHOE.

Loads do not exceed 87% of hydraulic capacity or 75% of tipping capacity (* load limited by hydraulic capacity rather than tipping)



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