WEAM003000

Operation & Maintenance Manual

PC15R-8

HYDRAULIC EXCAVATOR

SERIAL NUMBERS PC15R-8 - F21803 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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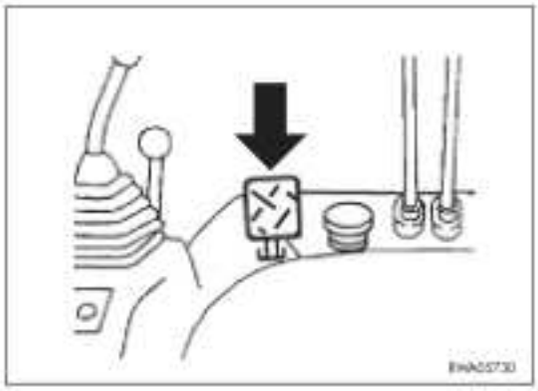
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11 - OPTIONAL EQUIPMENT CONTROL PEDAL

A - (STANDARD PEDAL)

This pedal controls the oil flow delivered to the optional equipment and can be used only for equipment with unidirectional oil flow (demolition hammer).
If the pedal is pressed in (A), high-pressure oil is delivered from the opening (C) and conveyed to the equipment through the left pipe.
The right pipe serves exclusively for the return of the oil to the tank.

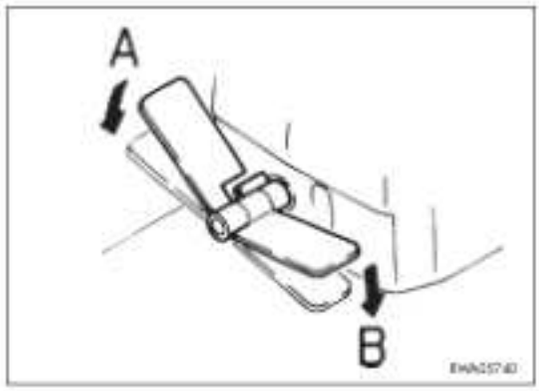


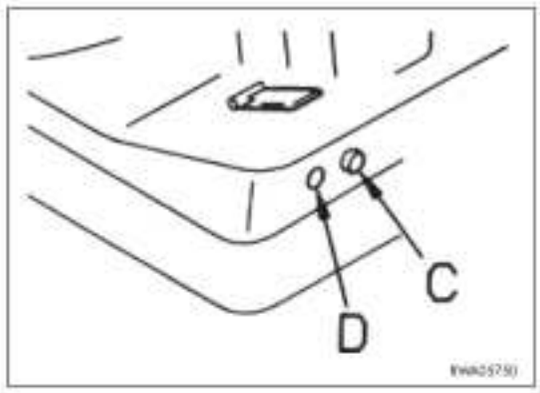
B - (OPTIONAL PEDAL)

This pedal controls the oil flow delivered to the optional equipment and can have two positions, one for the control of a bidirectional oil flow and the other for the control of an unidirectional flow.

BIDIRECTIONAL CONTROL

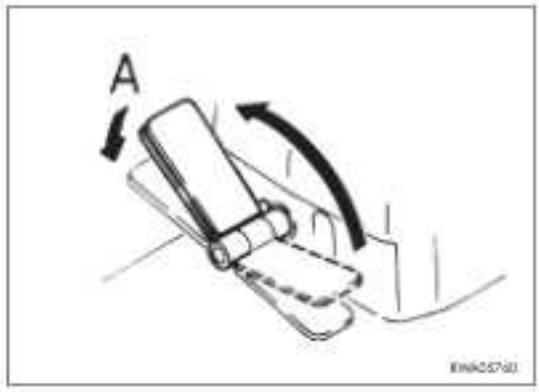
1 - If the pedal is pressed in (A), high-pressure oil is delivered from the opening (C) and conveyed to the equipment through the left pipe.
2 - If the pedal is pressed in (B), high-pressure oil is delivered from the opening (D) and conveyed to the equipment through the right pipe.





UNIDIRECTIONAL CONTROL

When equipment with unidirectional oil flow (demolition hammer) is installed, rotate the rear part of the pedal forward, so that it can be operated only with the toe.
If the pedal is pressed in (A), high-pressure oil is delivered from the opening (C) and conveyed to the equipment through the left pipe.
The right pipe serves exclusively for the return of the oil to the tank.



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1 - When the ambient temperature decreases, the battery capacity decreases accordingly and, if the battery charge is low, the electrolyte may freeze.
Keep the battery completely charged and insulate it to protect it against low temperatures, so that the machine can be started without problems the following day.

2 - Measure the specific weight of the fluid and check the battery charge percentage, making reference to the following table:

CHARGE PERCENTAGE	FLUID TEMPERATURE			
	20°C (68°F)	0°C (32°F)	-10°C (14°F)	-20°C (-4°F)
100%	1.28	1.29	1.30	1.31
90%	1.26	1.27	1.28	1.29
80%	1.24	1.25	1.26	1.27
75%	1.23	1.24	1.25	1.26

3 - When the electrolyte level is low, add distilled water before starting work, rather than after work, in order to prevent the fluid from freezing during the night.

3.11.4 OTHER PRECAUTIONS

1 - Before using the machine in normal operating conditions, carry out some slow movements either forward and in reverse, and operate all the work equipment cylinders slowly more than once.
These operations serve to warm up and fluidize the oil in the hydraulic circuit and the reduction gears.

3.11.5 PRECAUTIONS TO BE TAKEN AT THE END OF WORK

1 - Completely remove mud and water from the machine body.
Park the machine on firm ground; if the machine must be parked near banks or ditches, park it on wooden boards in order to distribute the weight of the machine on a larger surface.

2 - Be careful to water drops forming on the hydraulic cylinder rods: these drops must be completely removed, since if they freeze the cylinder gaskets may be damaged.
After removing the water drops, protect the rods with oil.

3 - Drain the condensate that may have formed in the tank, to prevent the water from freezing during the night.

4 - Since the battery capacity may decrease considerably at low temperatures, after work cover the battery or remove it and store it at a suitable temperature.

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4.7 MAINTENANCE PLAN

4.7.1 WHEN REQUIRED

N.	PART	OPERATION	PAGE
a	Cooling circuit	Wash	149
b	Fuel tank	Drain the condensate	150
c	Electrical system	Check	150
d	Steel tracks	Check and adjust the tension	151
e	Rubber tracks	Check	153
f	Rubber tracks	Check and adjust the tension	155
g	Rubber tracks	Change	157

4.7.2 MAINTENANCE INTERVALS IN CASE OF USE OF THE DEMOLITION HAMMER (BREAKER)

N.	PART	OPERATION	PAGE
a	Hydraulic oil filter	Change the cartridge	159
b	Hydraulic oil tank	Change the oil	159

4.7.3 CHECKS BEFORE STARTING

N.	PART	OPERATION	PAGE
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b	Coolant	Check and top up	160
c	Fuel tank	Check and top up	161
d	Engine oil pan	Check and top up	161
e	Hydraulic oil tank	Check and top up	162

4.7.4 MAINTENANCE EVERY 100 HOURS OF OPERATION

N.	PART	OPERATION	PAGE
a	Joint and ball-bearing ring articulations	Lubricate	163
b	Variable track gauge sliding guides	Lubrication	164
c	Air cleaner	Clean the cartridge	165

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