TEN00771-00

Operation & Maintenance Manual

HYDRAULIC
EXCAVATOR

PC490LC-11

SERIAL NUMBERS 85241 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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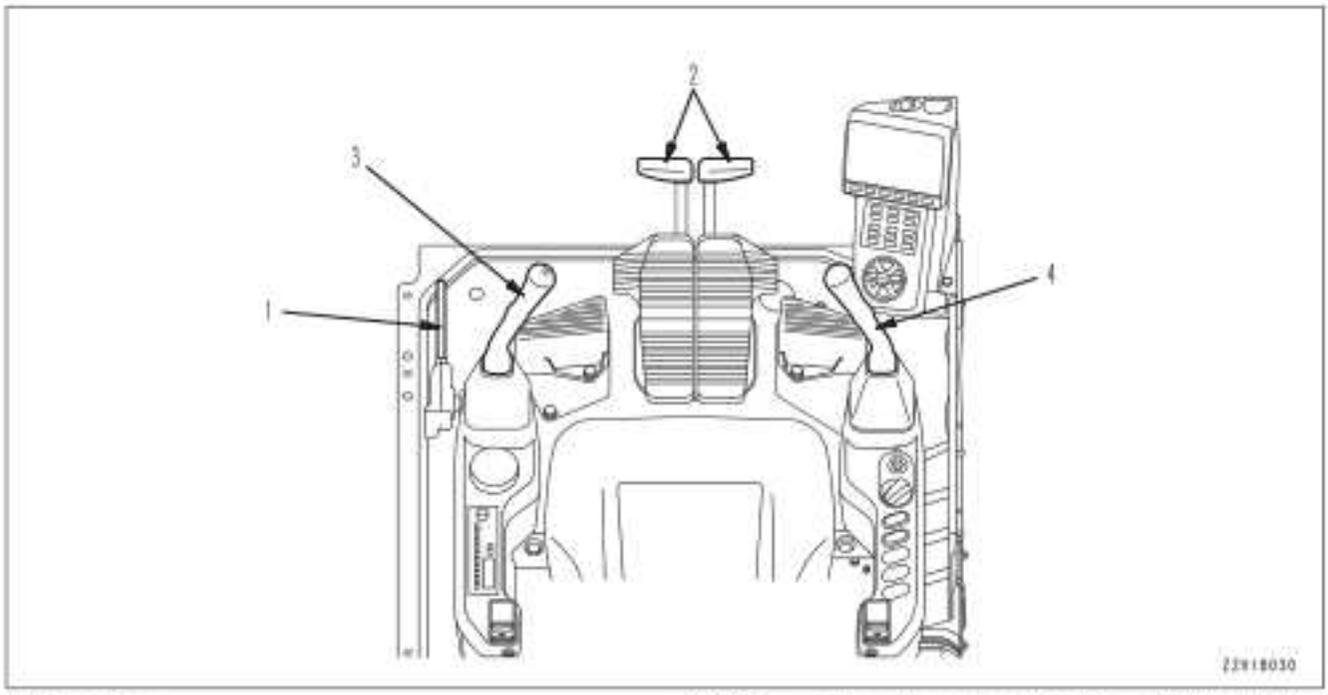
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CONTROL LEVERS AND PEDALS



(1) Lock lever
(2) Travel levers (with pedal and auto-deceleration system)
(3) L.H. work equipment control lever (with auto-deceleration system)
(4) R.H. work equipment control lever (with auto-deceleration system)

LOCK LEVER

⚠ WARNING

- **When leaving the operator's seat, set the lock lever securely to LOCK position. If the lock lever is not at LOCK position and the control levers or control pedals are touched by mistake, it may lead to serious personal injury or death.**
- **Always check that the lock lever is in LOCK position.**
- **When pulling the lock lever up, or when pushing the lock lever down, be careful not to touch the work equipment control lever.**
- **Before setting the lock lever to FREE position, make sure that all control levers and pedals are set to NEUTRAL position. If any of them is out of NEUTRAL position, the work equipment or machine may move suddenly and cause a serious personal injury or death.**

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

(L) LOCK position

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

(F) FREE position

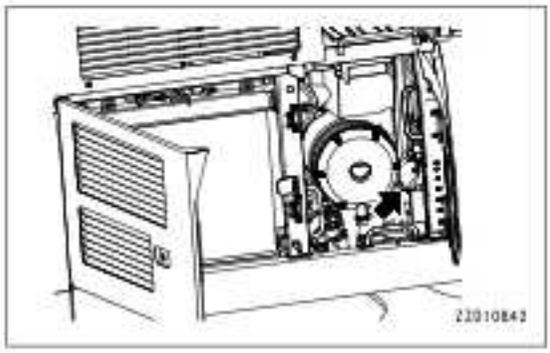
Machine moves according to operation of levers or attachment control pedal (if equipped).



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DEF FILTER

DEF filter is an filter element to clean DEF sucked from the DEF tank by DEF pump, and to supply it to DEF injector.



NOTICE

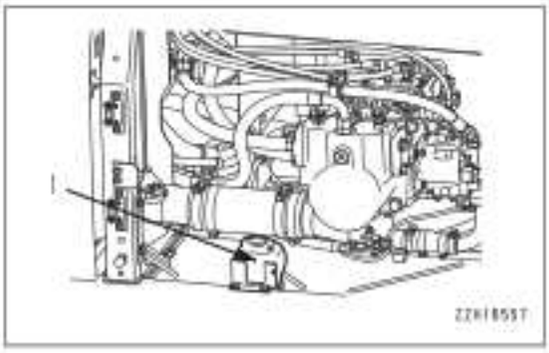
- **The DEF filter element needs to be replaced every 2000 hours. For details of the replacement procedure, see "METHOD FOR REPLACING DEF FILTER (4-84)".**
- **If the machine is operated without DEF filter attached, or with the filter other than Komatsu genuine parts, foreign materials may enter into DEF pump and DEF injector which will cause failure of the machine. Never operate the machine without DEF filter attached, nor use the filter other than Komatsu genuine parts.**
- **DEF filter cannot be flushed. Flushing or regenerating of it will degrade the performance of DEF filter, and will contaminate DEF pump and DEF injector which will cause the failure of the machine. Never reuse the DEF filter.**

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METHOD FOR CHECKING WINDOW WASHER FLUID LEVEL, ADDING FLUID

1. If air is in the window washer fluid, check the fluid level in window washer tank (1).
2. If the level is low, add window washer fluid for automobile.

   Be careful not to let dirt or dust get in when adding fluid.



Mixture ratio of pure washer fluid and water

The proper mixing proportion varies with the ambient temperature. Add washer fluid diluted with water at the following proportion.

Area, season	Mixing proportion	Freezing temperature
Normal	Washer fluid 1/3: water 2/3	-10 °C {14 °F}
Winter in cold district	Washer fluid 1/2: water 1/2	-20 °C {-4 °F}
Winter in extremely cold district	Pure washer fluid	-30 °C {-22 °F}

There are 2 types of -10 °C {14 °F} (for general use) and -30 °C {-22 °F} (for cold district). Use them properly according to the area and season.

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