CEAM030202

Operation & Maintenance Manual

WA380-8

WHEEL LOADER

SERIAL NUMBERS WA380-8 A74001 and up

ENGINE 6D107E-3

October 2017

KOMATSU®

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When the time remaining to the next "Maintenance" for any item is less than the maintenance notice time (initial setting: 30 hours), the remaining time display (1) is highlighted in yellow.

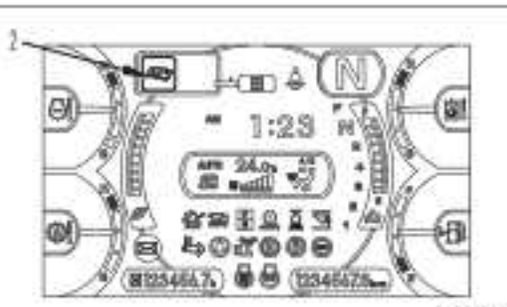
When the time remaining to the maintenance becomes 0 hours, the Remain (1) is highlighted in red. The time after the replacement interval is indicated with the negative symbol.

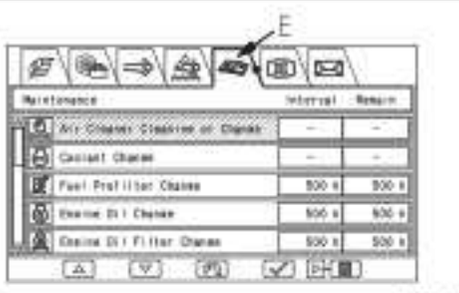
If any item is displayed in red, perform the maintenance for it immediately.

REMARK

The replacement intervals in "Air Cleaner Cleaning or Change" and "Coolant Change" are not set initially.
If you want to change the setting for the maintenance interval and the maintenance notice time, consult your Komatsu distributor.
When the maintenance time caution lamp (2) is lit on the standard screen, press the menu switch, and the screen automatically displays the "Maintenance" menu screen (E).







METHOD FOR RESETING REMAINING TIME FOR MAINTENANCE

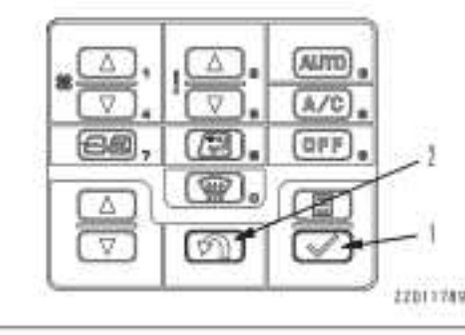
After performing maintenance, reset the remaining time for maintenance according to the following procedure.

1. On "Maintenance" menu screen, select an item to reset the remaining time, then keep pressing ENTER switch (1) for more than 1.5 seconds.

   REMARK

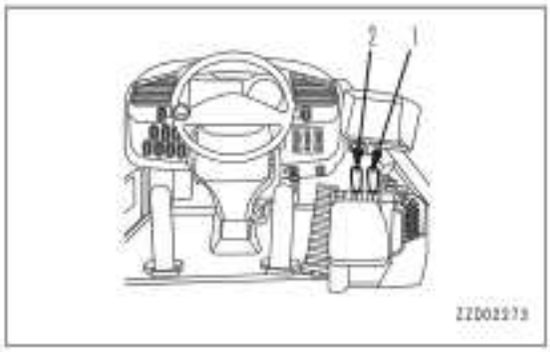
   If ENTER switch (1) is not pressed for enough time, the switch operating sound can be heard, but the screen does not switch to the screen for resetting the remaining time for maintenance.





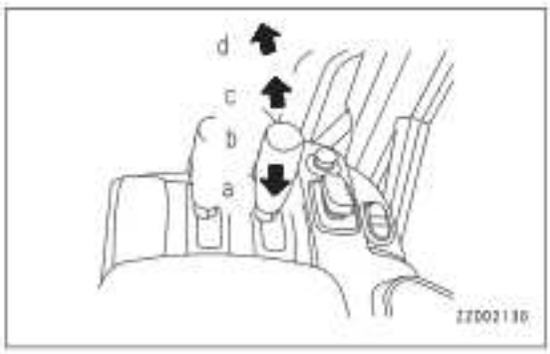
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Boom control lever (1) and bucket control lever (2) are used to operate the boom and bucket in the following manners.



METHOD FOR OPERATING BOOM

The boom control lever is used to control the boom.



NOTICE

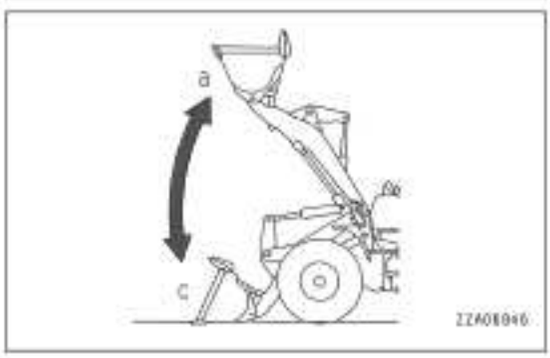
Do not use "FLOAT" position when lowering the bucket. Use "FLOAT" when "LEVELING WORK (3-199)".

Position (a): RAISE

If the boom control lever is pulled further from "RAISE" position, the lever stops in that position.

When the remote boom positioner is enabled, the boom stops at the preset position and the lever returns to "HOLD" position at the same time.

When the remote boom positioner is disabled, the boom stops at the highest position and the lever returns to "HOLD" position at the same time.



Position (b): HOLD

The boom remains in the position where it was stopped.

Position (c): LOWER

Position (d): FLOAT

The boom moves freely under external force. If the boom control lever is turned to "FLOAT" position, the lever stops in that position.

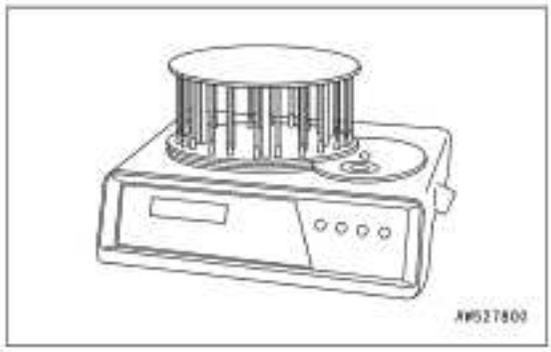
When the remote boom positioner is enabled, the boom stops at the preset position and the lever returns to "HOLD" position at the same time.

When the remote positioner is not set, the lever remains in "FLOAT" position and does not return.

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Measurement of quantity of iron particles

A PQI (Particle Quantifier Index) measuring instrument is used for measuring the quantity of iron particles of 5 µm or more, enabling early detection of failures.



Others

Measurements are made of items such as the ratio of water, coolant, and fuel in the oil, and dynamic viscosity, if necessary, to enable a highly precise diagnosis of the machine and the components' condition.

Oil sampling interval

500 hours

Precautions when sampling

- Make sure that the oil is well mixed before sampling.
- Perform sampling at regular fixed intervals.
- Do not perform sampling on rainy or windy days when water or dust can get into the oil.

For further details of KOWA, contact your Komatsu distributor.

STORE OIL AND FUEL

- Keep oil and fuel indoors to prevent any water, dirt, or other impurities from getting in.
- When keeping drum cans for a long period, lay the drums so that the filler ports of the drums are located in the lower part of the side to prevent moisture from being sucked in. If drums have to be stored outside, cover them with a waterproof sheet or take other measures to protect them.
- To prevent any change in quality during long-term storage, be sure to use in the order of first in - first out (use the oldest oil or fuel first).

STORE DEF

- Completely seal up its container for storage. Only open containers in a well-ventilated area.
- When storing DEF, avoid direct sunlight. Always use the original container. Make sure that transfer equipment and tank must meet DEF compatible material specification. If DEF is stored in an iron or aluminum container, toxic gas may develop and a chemical reaction may corrode the container.
- The relationship between the upper limit of storage temperature and the storage period of DEF is shown in the table.

Temperature of storage area	Storage period
Max.10 °C {50 °F}	Up to 36 months
Max.25 °C {77 °F}	Up to 18 months
Max.30 °C {86 °F}	Up to 12 months
Max.35 °C {95 °F}	Up to 6 months

*: Do not store DEF in the temperature of 35 °C {95 °F} or above.

FILTER

- Filters are extremely important safety parts. They prevent impurities in the oil, fuel, and air circuits from entering important equipment and causing problems. Replace all filters periodically. For details, see Operation and Maintenance Manual.
  However, when working in severe conditions, replace the filters at shorter intervals according to the oil and fuel (sulfur content) being used.

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