TEN00631-04

# Operation & Maintenance Manual

ARTICULATED
DUMP TRUCK

**HM300-3**

SERIAL NUMBERS 3376 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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# DUMP BODY HEATING SPECIFICATIONS (HM300-M510-04A-K-00-A)

The dump body heating is a function to improve the removal of soil from the dump body by heating the dump body with the exhaust gas. If the dump body heating specification is employed, the machine can obtain outstanding easiness of dumping when the operation is performed in the freezing area.
After the regeneration of KDPF, the temperature of dump body may rise 250°C or higher because of the exhaust gas.

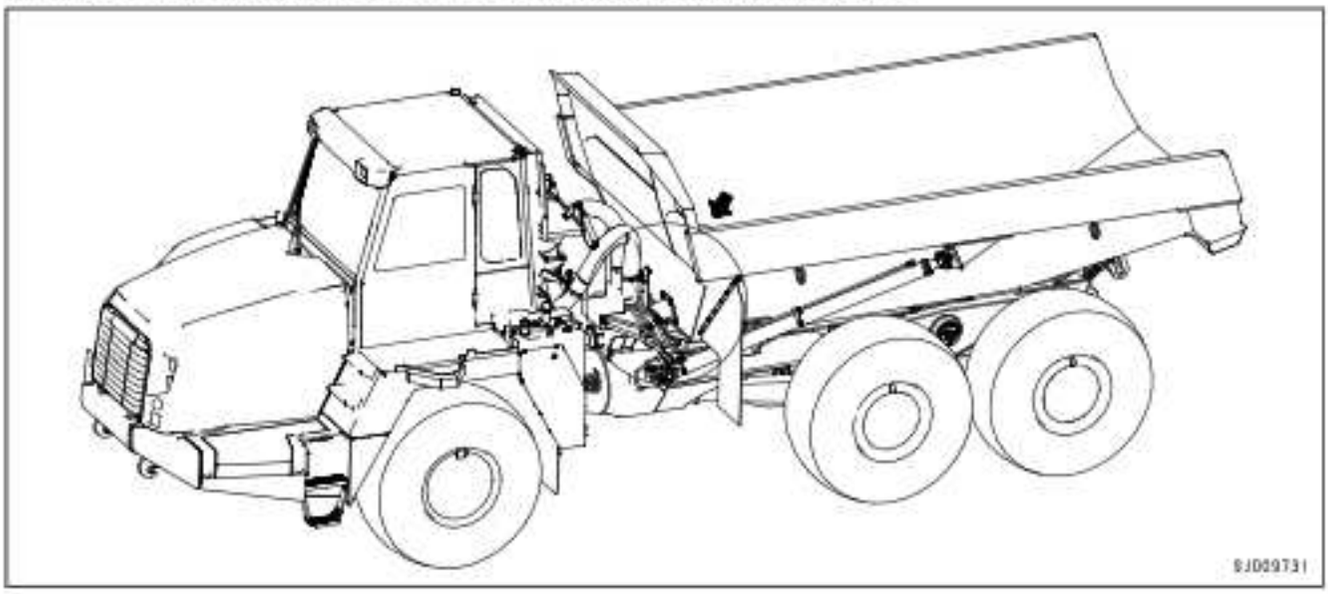
## ⚠ CAUTION

**For the machines equipped with dump body heating specification, the dump body becomes highly heated during regeneration of KDPF.**
**Stay away from the dump body to prevent yourself from getting burnt.**
**If the following objects are loaded, fire may occur.**

- **Objects which contains many flammable industrial wastes**
- **Objects which mainly contains flammable materials such as dry leaves, chips, pieces of paper, and coal dusts**

**Take appropriate actions to prevent fire.**

The temperature around the dump body becomes high as shown in the figure.




### Remedy to prevent fire

When loading the flammable materials, change the machine specification to the specification without dump body heating.
Contact your Komatsu distributor for changing the machine specification to the specification without dump body heating.
In case the flammable materials are loaded, momentarily avoid a fire in the following procedure.

1. Avoid the automatic regeneration by performing regeneration disable operation after the engine is started.
2. After finishing the work, perform the manual stationary regeneration while the machine is unloaded.

For the methods of the manual stationary regeneration and regeneration disable operation, see "HANDLING Komatsu Diesel Particulate Filter (KDPF) ( PAGE 3-131 ) ".

**REMARK**
Mixing a large amount of soil into the flammable materials helps to decrease the fire.



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## IF ACCELERATOR PEDAL HAS FAILED (HM-0000-14A-K-03-A)

The accelerator pedal is equipped with a potentiometer that detects the amount that the accelerator pedal is depressed. In addition, there is a switch that judges if the accelerator pedal is being depressed or if it has been released.

If it is impossible to detect correctly the amount that the accelerator pedal is depressed because of breakage of the accelerator pedal or defective wiring, the engine controller controls the engine in accordance with the signal from this judgment switch. When the accelerator pedal is being depressed, the engine speed is set to 1,500 rpm; when the accelerator pedal is released, the engine speed is set to low idle. The speed differs according to the load.

Operate the accelerator pedal to move the machine to a safe place, then check the failure code and contact your Komatsu distributor.

When operating the accelerator pedal, release the pedal to turn it to OFF position (low idle) or depress it fully to set to 1,500 rpm.

If the accelerator pedal is depressed half way, it may be impossible to judge if the accelerator pedal is being operated.

**REMARK**

If the engine controller cannot correctly receive the signal for the amount that the accelerator pedal is depressed, the centralized warning lamp lights up, the alarm buzzer sounds intermittently, and Engine System Error and action level "L03" is displayed on the machine monitor.



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## EVERY 2000 HOURS MAINTENANCE (ALL-33E0-015-A-02-A)

Maintenance for every 50, 250, 500 and 1000 hours should be performed at the same time.

### REPLACE KCCV FILTER ELEMENT (HM-A185-923-K-00-A)

**⚠ WARNING**

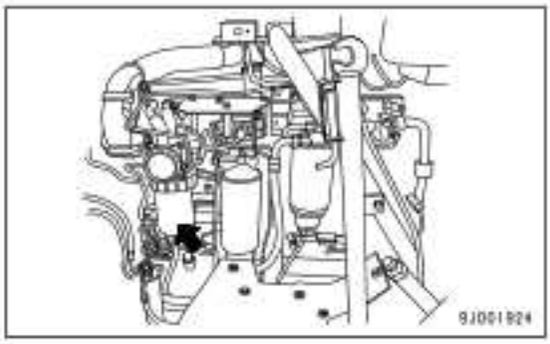
**After the engine is operated, all parts are very hot, so do not replace the filter element immediately. Wait until all parts have cooled down before starting the work.**

**NOTICE**

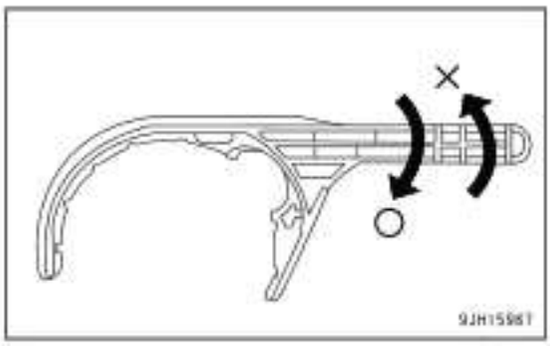
- **If the engine is operated without the filter element, the turbocharger and aftercooler will become dirty and their performance will lower and that can cause engine problems such as overrun caused by suction of oil. Therefore, do not start the engine without the filter element.**
- **The filter element cannot be cleaned. If the filter element is cleaned or regenerated, the filter performance lowers. As a result, the turbocharger and aftercooler become dirty and the crankcase pressure increases. Never reuse the filter element since it can cause an engine failure.**
- **After the filter element is replaced, if KCCV is not assembled correctly, oil or blowby gas may leak. Replace the filter element in the correct procedure.**

Prepare the special wrench for KCCV and a container to catch the oil.

The KCCV filter is located at the positions shown in the figure on the right.




For how to use the special wrench, see the figure on the right.






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