TEN00350-00

Operation & Maintenance Manual

ARTICULATED
DUMP TRUCK

HM400-2

SERIAL NUMBERS 2633 and up

ecot3

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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TRANSPORTATION

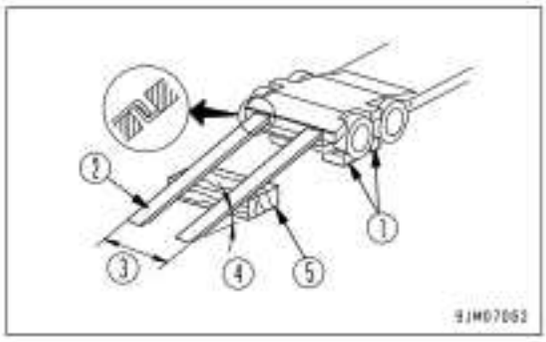
When the machine is transported on a trailer, there is danger of serious personal injury or death during transportation. Always do as follows.

- Always check the machine dimensions carefully. Depending on the attachments installed, the machine weight, transportation height, and overall length may differ.
- Check beforehand that all bridges and other structures on the transportation route are strong enough to withstand the combined weight of the transporter and the machine being transported.
- The machine can be divided into parts for transportation, so when transporting the machine, please contact your Komatsu distributor to have the work carried out.
- Lock the articulation lock to prevent the machine from articulating.
- For the procedure when transporting, see "TRANSPORTATION (PAGE 3-116)".

LOADING AND UNLOADING

When loading or unloading the machine, mistaken operation may bring the hazard of the machine tipping over or falling, so particular care is necessary. Always do as follows.

- Perform loading and unloading on firm, level ground only. Maintain a safe distance from the edge of the road or cliff.
- Always use ramps of adequate strength. Be sure that the ramps are wide, long, and thick enough to provide a safe loading slope. Take suitable steps to prevent the ramps from moving out of position or coming off.
- Be sure the ramp surface is clean and free of grease, oil, ice and loose materials. Remove dirt from the tire of the machine. On a rainy day, in particular, be extremely careful since the ramp surface is slippery.
- Run the engine at low idling and drive the machine slowly at low speed.
- Never correct your steering on the ramps. If necessary, drive off the ramps, correct the direction, then enter the ramps again.



(1) Blocks
(2) Ramp
(3) Width of ramps: Same width as tiers
(4) Angle of ramps: Max. 15°
(5) Block

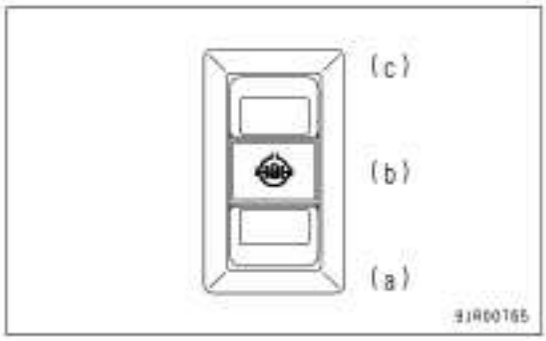
- When loading or unloading to an embankment or platform, make sure that it has suitable width, strength, and grade.
- For machines equipped with a cab, always lock the door after loading the machine. If this is not done, the door may open during transportation.
  For details, see "TRANSPORTATION (PAGE 3-116)".

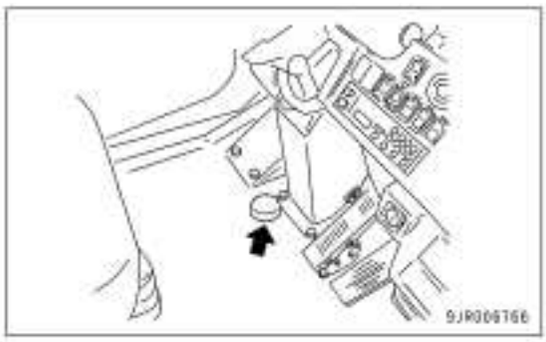
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LEFT AND RIGHT DIFFERENTIAL LOCK SWITCH

This switch (11) can be used to switch the conditions of the left and right differential locks.
When the switch is pressed and the left and right differential lock pedal is depressed, the left and right differential locks are actuated if the shift range is F3, F2, F1, R1, R2.
When the switch is at the neutral position, the left and right differential locks are not actuated.
Position (a): Front, center, rear left and right differential locks are actuated
Neutral position (b): Left and right differential locks are not actuated
Position (c): Center and rear left and right differential locks are actuated

For details when using the differential lock, see "OPERATION USING DIFFERENTIAL LOCK (PAGE 3-101)".



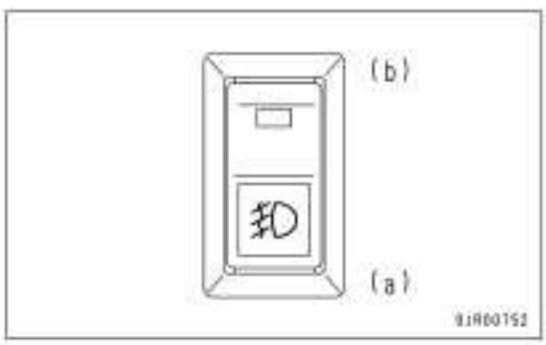


FOG LAMP SWITCH

(If equipped)
This switch (12) is used to switch on the fog lamp.

(a): Fog lamp goes out
(b): Fog lamp lights up

When working at night, the symbol inside the switch lights up regardless of the selected position of the switch.

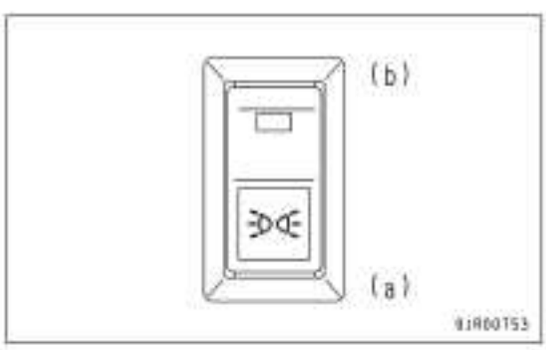


SIDE LAMP SWITCH

(If equipped)
This switch (13) is used to switch on the side lamp.

(a): Side lamp goes out
(b): Side lamp lights up

When working at night, the symbol inside the switch lights up regardless of the selected position of the switch.



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EVERY 6000 HOURS SERVICE

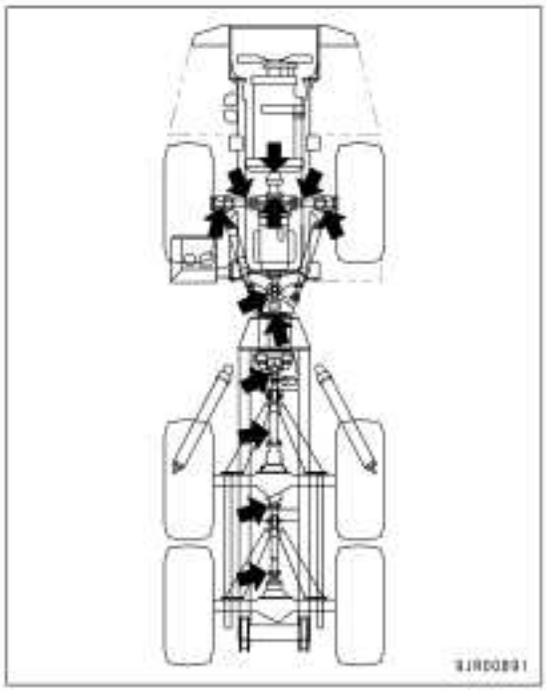
Maintenance for every 50, 250, 500, 1000, 2000 and 4000 hours service should be carried out at the same time.

LUBRICATE DRIVE SHAFT

If special drive shaft grease is used, carry out greasing every 6000 hours or every two years. When the special grease is not used, and the normal lithium-based grease is used, carry out greasing every 250 hours.

Special drive shaft grease: 56B-20-19910

1. Using a grease pump, pump in grease through the grease fittings marked by the arrows.
2. Grease the spider portion until grease comes out from the cap seal.
3. After greasing, wipe off any old grease that was pushed out.



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