Operation & Maintenance Manual

VEAM190100

WA480-5H

WHEEL LOADER

SERIAL NUMBERS WA480H50051 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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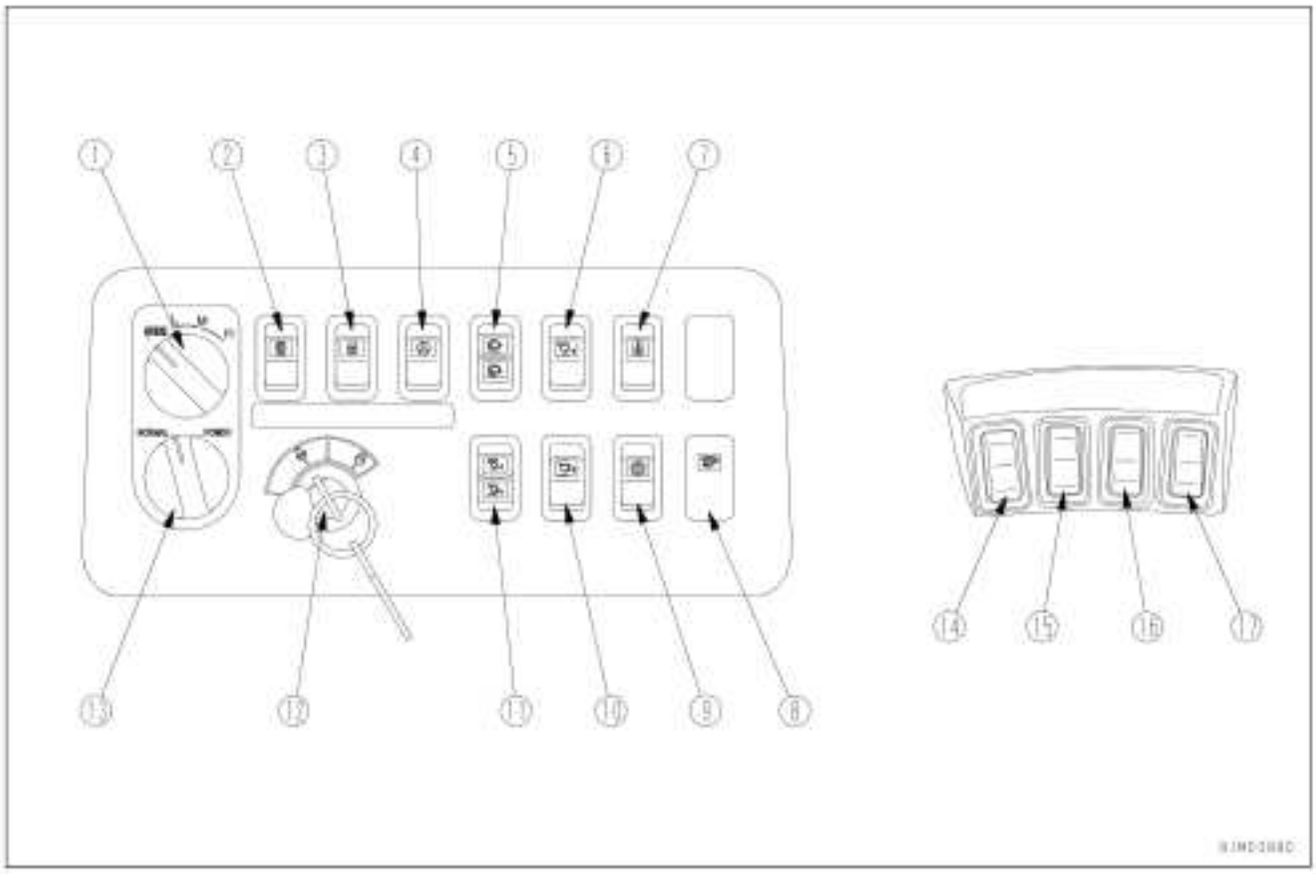
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SWITCH PANEL



RIGHT SWITCH PANEL	FRONT SWITCH PANEL
1) Transmission shift mode selector switch	(14) Monitor panel mode selector switch 1
(2) Transmission cut-off set switch	(15) Monitor panel mode selector switch 2
(3) Cooling fan reverse rotation switch	(16) Front working lamp switch
(4) Emergency steering switch (option)	(17) Rear working lamp switch
(5) Semi auto digging switch (option)	
(6) Remote positioner raise mode switch (option)	
(7) Directional selector actuation switch (option)	
(8))Auto-greasing switch (option)	
(9) Torque converter lock-up switch (option)	
(10) Remote positioner lower mode switch (option)	
(11) Remote positioner raise/lower set switch (option)	
(12) Starting switch	
(13) Power mode selector switch	

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TRANSPORTATION

When transporting the machine, observe all related laws and regulations, and be careful to assure safety.

TRANSPORTATION PROCEDURE

As a basic rule, always transport the machine on a trailer.
When selecting the trailer, see the weights and dimensions given in Section "SPECIFICATIONS (5-2)".
Note that the specifications for the weights and dimensions for transportation differ according to the type of tires and type of bucket.

LOADING, UNLOADING WORK WITH TRAILERS

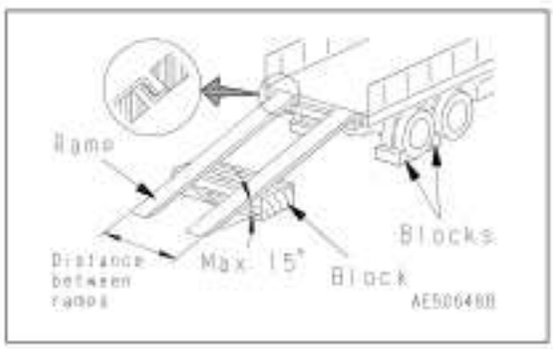
⚠ WARNING

- **When loading or unloading the machine, run the engine at low speed, travel at low speed, and operate slowly.**
- **When loading or unloading the machine, stop the trailer on firm level ground.**
- **In addition, keep well away from the road shoulder.**
- **Use ramps of ample width, length, thickness, and strength, and install them securely at an angle of less than 15°.**
- **When using an embankment, compact the fill soil thoroughly and make sure that the slope face does not collapse.**
- **Remove the mud stuck to the undercarriage to prevent the machine from slipping to the side on the ramps.**
- **In addition, remove any water, snow, ice, grease, or oil from the ramps.**
- **Never change direction on the ramps. There is danger that the machine may tip over.**
- **If it is necessary to change direction, return to the ground surface or the trailer platform, correct the direction, and start again.**
- **The position of the center of gravity of the machine will change suddenly at the connection of the ramp and trailer, and there is danger of the machine losing its balance. Always drive slowly over this point.**

When loading or unloading, always use ramps or a platform and carry out the operation as follows.

LOADING

1. Perform loading and unloading on firm, level ground only.
   Maintain a safe distance from the edge of a road.
2. Apply the brakes on the trailer securely and insert blocks under the tires to ensure that the trailer does not move.
   Then fix the ramps in line with the centers of the trailer and the machine.
   Be sure that the two sides are at the same height as one another.
   Make the angle of the ramps a maximum of 15°.
   Set the distance between the ramps to match the center of the tires.
   If the lamp sags appreciably, reinforce it with blocks, etc.
3. Determine the direction of the ramp, then slowly load the machine.
4. Load the machine correctly in the specified position on the trailer.



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EVERY 1000 HOURS SERVICE

Maintenance for every 50, 100, 250 and 500 hours service should be carried out at the same time.

CHANGE OIL IN TRANSMISSION CASE AND TRANSMISSION OIL FILTER CARTRIDGE, CLEAN STRAINER

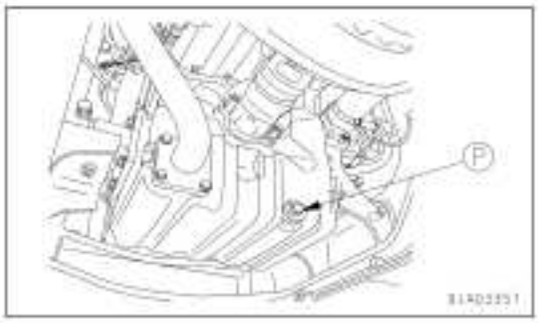
⚠ WARNING

- **The parts and oil are at high temperature after the engine is stopped, and may cause burns.Wait for the temperature to go down before starting the work.**
- **When removing the oil filler cap, turn it slowly to release the internal pressure, then remove it.**

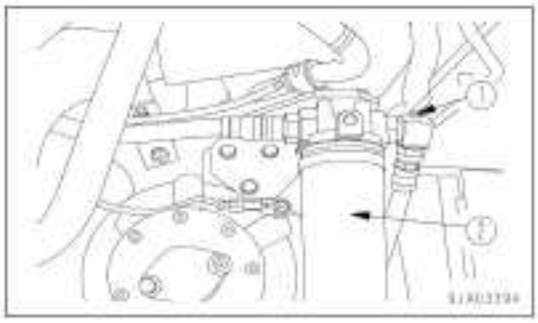
- Container to catch drained oil: Min 65 liters (17.17 US gal) capacity
- Refill capacity: 54 liters (14.27 US gal)
- Filter wrench

1. Set a container to catch the oil under drain plug (P), then remove drain plug (P) and drain the oil.
   To prevent the oil from pouring out suddenly, loosen drain plug (P) and remove it gradually.
2. After draining the oil, install drain plug (P).

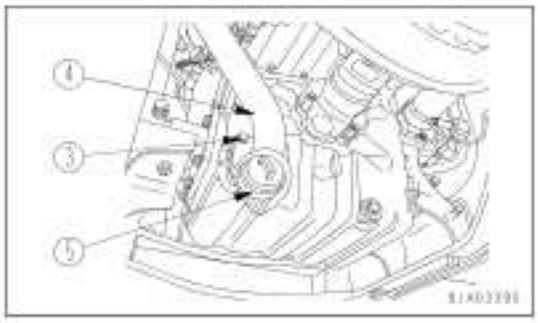
   Tightening torque: 68.6 ± 9.8 N²m (7.0 ± 1.0 kgf²m, 50.6 ± 7.2 lbft)
3. Set a container to catch the oil under the transmission filter.



4. Remove drain plug (1) of the transmission filter, drain the oil, then tighten the plug again.
5. Using a filter wrench, turn filter cartridge (2) to the left to remove it.
6. Clean in the filter holder, coat the seal surface and thread of the new filter cartridge with engine oil, then install it.
7. When the seal surface comes into contact with the filter holder, tighten a further 2/5 turns with the filter wrench.



8. Remove 4 bolts (3), move tube (4), then remove strainer (5).
9. Remove any dirt stuck to strainer (5), then wash it in clean diesel fuel or flushing oil. If strainer (5) is damaged, replace it with a new part.
10. Install strainer (5) in the case.
    Replace the O-ring of tube (4) with a new part, then install tube (4).



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