VEAM270100

Operation & Maintenance Manual

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WHEEL LOADER

WA90-5

SERIAL NUMBER WA90-5 H50051- 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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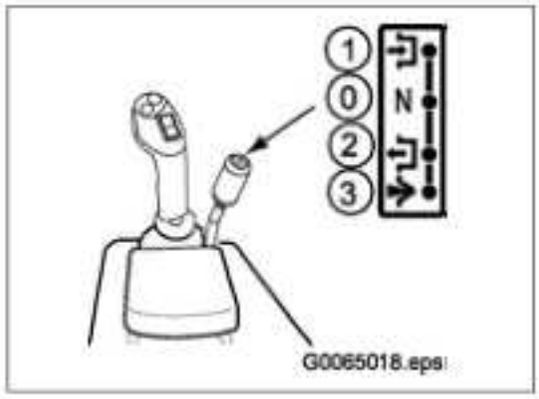
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Control lever for special equipment

The control lever for special equipment has three switch settings whose functions depend on the type of the used special equipment.

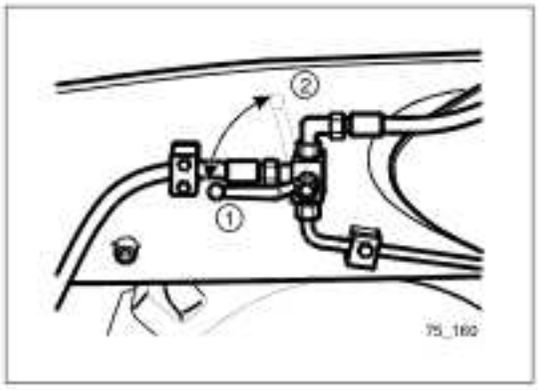


- If the standard bucket, the light-weight material bucket or the forklift truck attachment is attached to the quick-change unit, the control lever for special equipment provides the following functions:

Position 1 = Locking pins for work unit are drawn in

Position 0 = Neutral position (locking pins are drawn in; you can pick up the work unit in this position)

Position 2 = Locking pins for work unit are extended



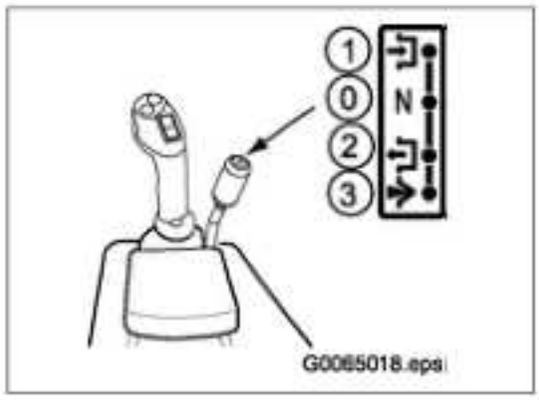
- If the multi-purpose bucket is attached to the quick-change unit, the control lever has the functional assignment described above. If the switching lever for the bucket is in position '1', the multi-purpose bucket is active. You can then operate the multi-purpose bucket via the control lever for special equipment.
  It then has the following functions:

Position 1 = Close multi-purpose bucket

Position 0 = Neutral position

Position 2 = Open multi-purpose bucket

- If you use attachments requiring a steady oil flow (e.g. brush, snow remover), the control lever has the following functions:



Position 1 = Work unit turns backwards

Position 0 = Neutral position

Position 2 = Work unit turns forward

Position 3 = Work unit turns forward in permanent operation (locks in

- For permanent operation, you must set the control lever to position '3'. The control lever locks in this position.

NOTE

Without connected special equipment, you must not set the control lever for special equipment to switch settings '1', '2' or '3'. If you do not heed this note, the work hydraulic system will operate in order to counteract overpressure thus unnecessarily heating up the oil.

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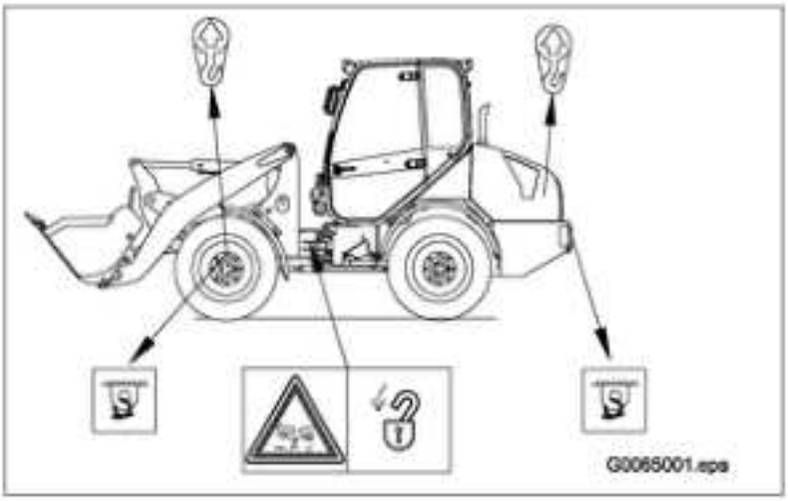
3.4.2. Lifting the machine

⚠ CAUTION

- **Danger of pinching! An unlocked articulated steering may suddenly move! Secure the articulated steering before you lift up the machine.**
- **Danger of accidents! Carrying ropes with insufficient carrying capacities may tear so that the machine may fall down! Only lift up the machine using carrying ropes with sufficient carrying capacities.**
- **Hoisting equipment with insufficient carrying capacities may suddenly bend and cause severe accidents! Only use hoisting equipment capable of carrying the machine's operating weight.**
- **Objects lying on the machine may fall down and cause injuries when the machine is lifted up! Remove all loose objects from the machine before you lift up the machine.**

⚠ CAUTION

Incorrectly attached ropes may damage the machine! Only fasten the eye hooks of the carrying ropes at the marked attachment points.



There are two attachment points each at the front part and the rear part of the machine. These attachment points are shown in the following figure. Information signs attached to the machine indicate the attachment points.To avoid damage to the machine, attach the eye hooks only to the attachment points.

When selecting the lifting equipment, take the operating weight of the machine into account. Insufficient carrying capacities of the lifting equip-ment may cause severe accidents. also use carrying ropes with appropriate carrying capacities for the operating weight of the machine. Carrying ropes with insufficient carrying capacities may tear when the machine is lifted up and cause severe accidents. The operating weight of the machine depends on the attached bucket.

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5.7.12. Maintenance every 4000 operating hours

All maintenance operations to be performed after 10, 50, 100, 250, 500, 1000 and 2000 hours of operation also fall into this maintenance category.

Lubrication, drive shaft

⚠ DANGER

I If you perform maintenance tasks on a machine that is not properly parked and secured, there is danger of severe accidents!

- **Park the machine on hard, level ground and secure the machine before you start with the maintenance tasks.**

1. For maintenance tasks, park and secure the machine as described in chapter "5.1. Maintenance guide" on page 5-2.
2. Unscrew the sealing plug (arrow) from the drive shaft.
3. Screw a grease nipple (1) into the drive shaft.
4. Lubricate the drive shaft with special grease (2), until grease escapes at the bearings.
5. Remove the grease that escaped at the bearings.
6. Unscrew the grease nipple from the drive shaft.
7. Screw the sealing plug back in and pull it tight.
8. Perform this maintenance task at the front and rear of the drive shaft.



NOTE

Only "Staburags NBU 12/300 KP" special grease may be used for maintenance. Using different grease will reduce the life span of the drive shaft.

Pos.	Name	Order number
1	Grease nipple	42Y-00-H3040
2	Grease	42S-09-H1030

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