SEAM010700

Operation & Maintenance Manual

WA20-2, WA30-5
WA40-3, WA50-3

WHEEL LOADER

SERIAL NUMBERS
WA20 - 11270
WA30 - 18970
WA40 - 13530
WA50 - 20642
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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4. SAFETY LOCK (for work equipment control lever)



⚠ WARNING

- **When leaving the operator's compartment, set the safety lock securely to the LOCK position. If the control lever are not locked, and they are touched by mistake, this may lead to a serious accident.**
- **If the safety lock is not placed securely in the LOCK position, the control lever may not be properly locked. Check that the situation is as shown in the diagram.**
- **When parking the machine or carrying out maintenance, always lower the bucket to the ground and apply the lock.**

This is used to lock the work equipment lever.
Push the knob to apply the lock.

5. BRAKE PEDALS



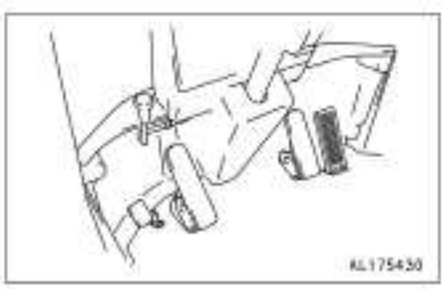
⚠ WARNING

- **Do not use the brake pedals repeatedly unless necessary.**
- **Do not put your foot on this pedal unless necessary.**

There are brake pedals on both the left and right sides. Both the left and right pedals have the same function. When the brake pedal is depressed, the machine is stopped.

The brake pedal is interconnected with the HST inching valve, so if the brake pedal is depressed lightly, the HST pump returns in the neutral direction in accordance with the amount the pedal is depressed, and this gives a deceleration effect. If the pedal is depressed further, the wheel brake is actuated and the machine is stopped.

6. ACCELERATOR PEDAL



This pedal controls the engine speed and output.

The engine speed can be freely controlled between low idling and full speed.

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18.1.4 GREASE

- Grease is used to prevent twisting and noise at the joints.
- The nipples not included in the maintenance section are nipples for overhaul, so they do not need grease.
  If any part becomes stiff after being used for long time, add grease.
- Always wipe off all of the old grease that is pushed out when greasing. Be particularly careful to wipe off the old grease in places where sand or dirt sticking in the grease would cause wear of the rotating parts.

18.1.5 STORING OIL AND FUEL

- Keep indoors to prevent any water, dirt, or other impurities from getting in.
- When keeping drum cans for a long period, put the drum on its side so that the filler port of the drum can is at the side. (To prevent moisture from being sucked in)
  If drum cans 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).

18.1.6 FILTERS

- Filters are extremely important safety parts. They prevent impurities in the fuel and air circuits from entering important equipment and causing problems.
  Replace all filters periodically. For details, see the Operation and Maintenance Manual.
  However, when working in severe conditions, it is necessary to consider replacing the filters at shorter intervals according to the oil and fuel (sulfur content) being used.
- Never try to clean the filters (cartridge type) and use them again. Always replace with new filters.
- When replacing oil filters, check if any metal particles are stuck to the old filter. If any metal particles are found, please contact your Komatsu distributor.
- Do not open packs of spare filters until just before they are to be used.
- Always use Komatsu genuine filters.

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WA30-5

PERFORMANCE

• Bucket capacity		0.4 m³
• Normal load		6.3 kN (640 kgf)
• Travel speed	Forward	15.0 km/h
	Reverse	15.0 km/h
• Max. rimpull		25.5 kN (2,600 kgf)
• Min. turning radius	Outside of chassis	3,610 mm
	Center of outside tire	3,060 mm

WEIGHT

• Operating weight	Including 1 operator (55 kg, 110 lb) and a canopy	2,555 kg (5,110 lb)
	Including 1 operator (55 kg, 110 lb) and a cab	2,705 kg (5,410 lb)

ENGINE

• Model	Komatsu 3D84E-3D diesel engine
• Flywheel horsepower	21.3 kW/2,500 rpm
• Max. torque	90 N•m/1,600pm (9.2 kgf•m/1,600 rpm)
• Starting motor	12 V 2 kW
• Alternator	12 V 40 A
• Battery	12 V 60 Ah x 1 piece

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