CEAM013801

Operation & Maintenance Manual

WA320PT-5L

WHEEL LOADER

SERIAL NUMBERS WA320PT-5L A39001 and up

ENGINE 6D102E-2

April 2016

KOMATSU®

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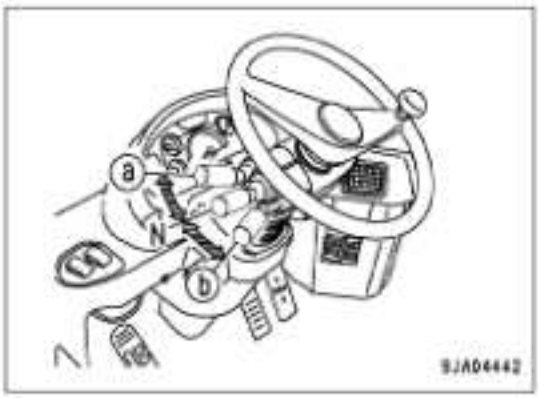
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CONTROLS

The control levers are used to control the direction and speed of the machine, stop the machine, operate the work equipment and park the machine. A good thorough understanding of these controls will help the operator in using the machine efficiently and safely.

DIRECTIONAL CONTROL LEVER

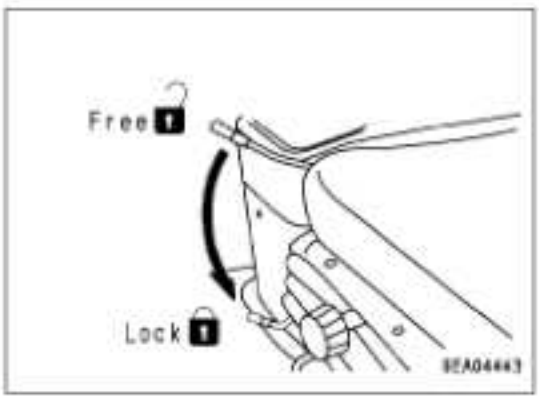


Lever (18) is used to change the direction of travel of the machine between forward and reverse.

When starting the engine, if the directional lever is not at the **N** position, the engine will not start.

Position (a): **FORWARD**
Position N: **NEUTRAL**
Position (b): **REVERSE**

WORK EQUIPMENT LOCK LEVER



Lever (19) is a locking device for the work equipment control levers. Once the lever is set in the locked position the work equipment will not operate. To set or lock the work equipment push the safety lock lever down to lock it. To release the work equipment for use, pull the lever upward to unlock.

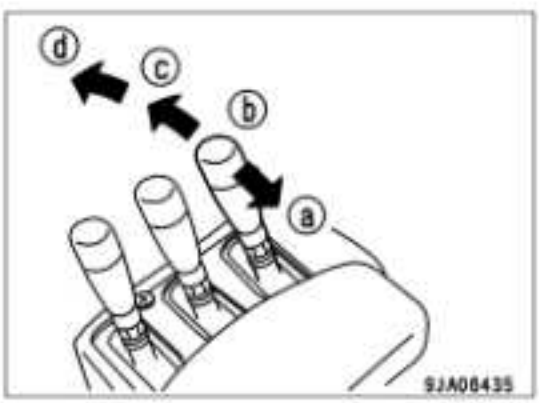
Remark

When setting the work equipment lock lever in the lock position be sure the work equipment is fully placed on the ground

⚠ WARNING

Before leaving the operator's seat, set the work equipment lock lever securely in the LOCK position. If the equipment lock lever is not fully in the LOCK position, and work equipment control levers are touched by mistake, accidental movement of the work equipment may result.

LIFT ARM CONTROL LEVER



Lever (20) is used to operate the lift arm.

Position (a): **RAISE**
When the lift arm control lever is pulled back the arm is raised. If it is pulled back further from in RAISE position, the lever will lock in this position until the lift arm reaches at a preset position where it stops automatically.

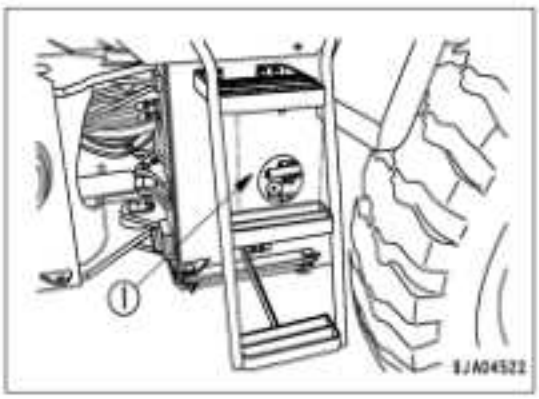
Position (b): **HOLD**
When raising or lowering the lift arm by releasing the control lever the arm is kept in the desired position.

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REPLACING HST OIL FILTER ELEMENT

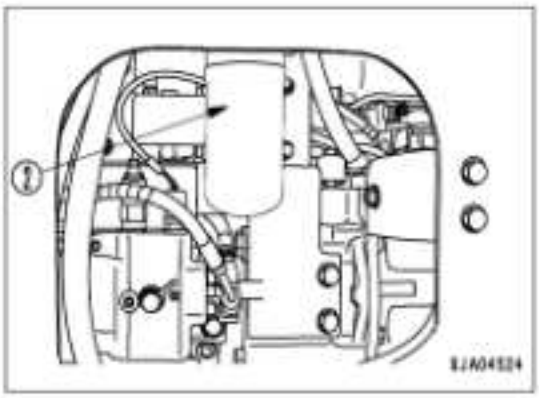
⚠ WARNING

- **The parts and oil are at high temperature. 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.**



1. Remove cover (1).

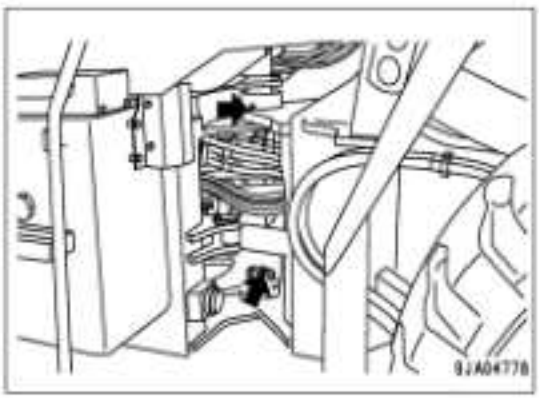
2. Using a filter wrench, turn filter cartridge (2) to the left to remove.
3. Install the new filter cartridge. Tightening torque: 29 to 39 Nm (21.7 to 28.9 ft/lbs)
4. Run the engine at low idling for 5 minutes to bleed the air from the HST circuit.
5. Check the hydraulic oil level.
6. Run the engine at low idling, and extend and retract the steering, bucket, and lift arm cylinders 4 to 5 times. Be careful not to operate the cylinder to the end of its stroke stop approx.100 mm (3.9 in) before the end of stroke.
7. Next, operate the steering, bucket, and lift arm cylinders to the end of their stroke 3 to 4 times, then stop the engine and loosen filler cap to bleed the air from the hydraulic tank. Check the hydraulic oil is at the specified level.



8. After completing the operation, install cover (2). Replace the HST filter element if the HST oil filter clogging warning pilot lamp lights up, even if 1000 hours or 1 year has not passed.

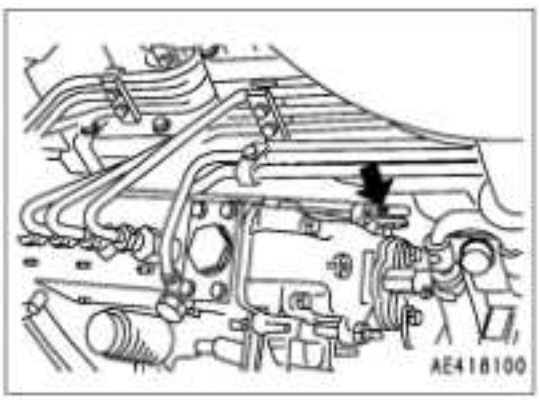
LUBRICATING CHASSIS

1. Using a grease pump, pump in grease through the grease fittings marked by the arrows.



2. After greasing, wipe off any old grease that was pushed out.

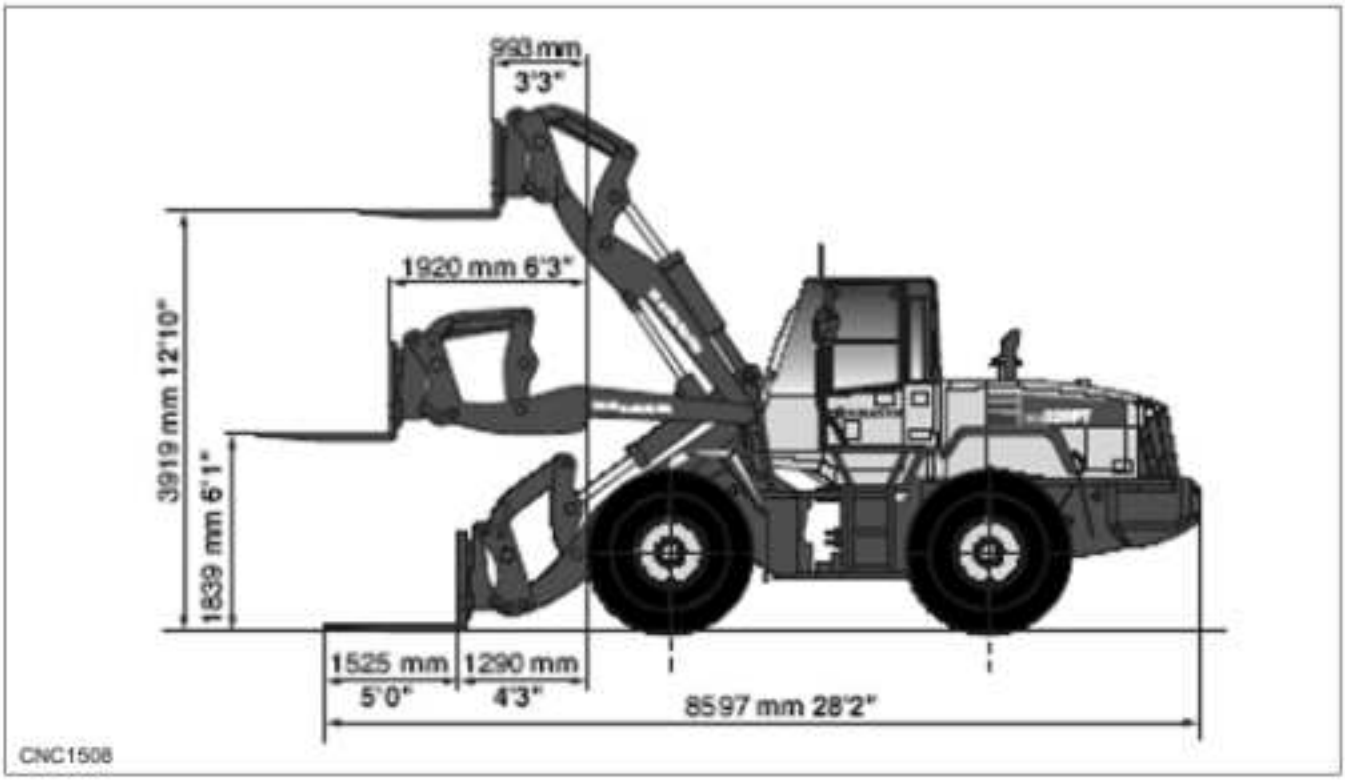
- (1) Center hinge pin (2 places)
- (2) Engine stop solenoid linkage (1 place)



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TECHNICAL DATA

OVERALL DIMENSIONS WITH WORK EQUIPMENT ATTACHED



FORK LIFT KIT

Static tipping load - boom level **Fork level, 610 mm (24 in)** **Load center**	**Straight**	8290 kg	(18,276 lbs)
	Full turn (40°)	7212 kg	(15,899 lbs)
Operating weight (including 1 operator: 75kg (165lbs) and forks		14588 kg	(32,161 lbs)
Fork tine length		1525 mm	(60 in)
Ground to top of tine at maximum lift		3919 mm	(12'/10")
Reach at maximum lift		993 mm	(3'/ 3")
Ground to top of tine - boom and tine level		1839 mm	(6'/1")
Reach boom and tine level		1920 mm	(6'/ 3")
Overall length - tine level on ground		8597 mm	(28'/ 2")
Operating load		3606 kg	(7,950 lbs)

★ For further information on using the fork lift. (See PARALLEL TOOL KIT 2-60)

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