

⚠ Read this handbook thoroughly and understand the whole information contained before trying to operate, inspect and service your machine!

**OPERATING &  
MAINTENANCE  
INSTRUCTIONS**



**VIBRATING  
ROLLER**

MODEL

**SV201 Series**

**SV201D SV201T**

**SV201TB SV201TF**

From SV201D → VSV14D - 10141 ~  
SV201T → VSV14T - 10187 ~  
SV201TB → VSV14T - 10187 ~  
SV201TF → VSV14T - 10187 ~

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**⚠ WARNING:** Negligence of these instructions can lead to accidents.

## 1. BASIC PRECAUTIONS FOR SAFETY

### ■ Do not use a machine which has not been serviced correctly at regular intervals.

- Before working, perform necessary inspections. Start operation only after making certain the machine is in good operating condition. If found to be abnormal, report to the responsible person and have the fault corrected. Operate the machine after making sure that it is safe to operate.

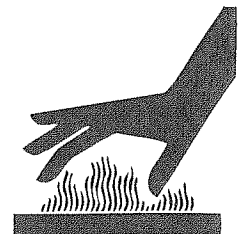
### ■ Do not allow anyone to enter the work area except for authorized personnel.

- Always conduct the work paying attention to the workers around the machine.



### ■ Be careful of hot parts.

- After your machine has operated for some time, the coolant, engine oil and hydraulic fluid will become hot and the pressure will build up. If, in this state, you try to remove the filler caps, drain the oil or replace the filters, you can get burned. Perform this work in accordance with the correct procedures with the machine cooled down.
- To remove the radiator cap, slowly loosen the cap to relieve the pressure with the engine shut down and the coolant cooled down. (For the radiator cap with a lever, lift the lever to release the trapped pressure.)
- When removing the filler cap on the hydraulic tank, release the trapped pressure by turning it out slowly to prevent the oil from gushing out.
- Do not touch the muffler while the engine is running or immediately after it has been shut down. You can get burned.



### ■ Be careful with fire.

- The fuel, oil, and anti-freeze will catch fire if open flames or ignition sources are used close to them. Particularly, the fuel is highly flammable.



- Do not smoke or use a match or cigarette lighter close to inflammables (combustibles).
- When refueling, stop the engine and do not smoke.
- The filler caps of the fuel and oil tanks must be kept tight.

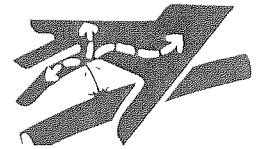
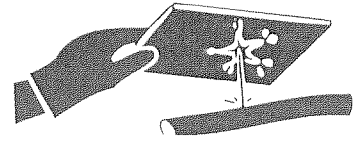


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## 1. BASIC PRECAUTIONS FOR SAFETY

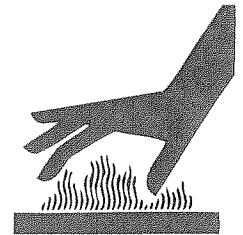
### ■ Be careful of high pressure hydraulic fluid.

- Bear in mind that the working equipment hydraulic systems are under internal pressure. Do not perform adding, draining, inspection or servicing of the hydraulic systems until the internal pressure has been relieved. Hydraulic fluid leaking through a fine hole at high pressure can penetrate your skin and eyes. Inspect leakage by holding a hard board close to suspected leaks wearing goggles. If affected by high pressure oil, get medical help immediately.



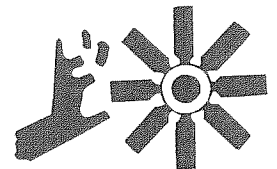
### ■ Be careful of hot parts

- After the machine has been operated for some time, the coolant, engine oil and hydraulic fluid will become hot.
- Removing the radiator cap or draining the coolant or oil can burn you. Perform this work in accordance with correct procedures after the systems have cooled down.



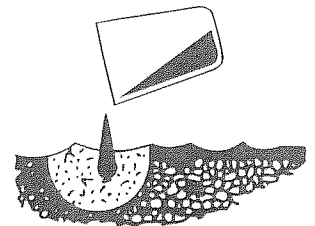
### ■ Use care when inspecting or servicing fan or belts in motion

- Secure loose clothing and keep articles away that could get caught in moving parts.
- Do not let your body or tools make contact with the fan blades or belts. They can be cut seriously.



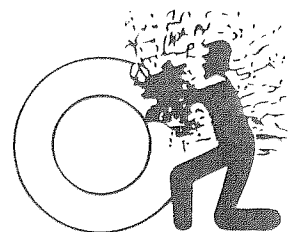
### ■ Used oil disposal

- Do not throw used oil into a drain or waterway. Drain the oil from the machine into a proper container. Do not drain directly on the ground.
- Obey all local, state and federal environment regulations for the proper disposal of oil, fuel, coolant, battery electrolyte or any other fluids.



### ■ Exercise extreme care when replacing and repairing tires

- Disassembly, repair and reassembly of tires require special facility and knowledge. Have them repaired at work shop specialized in handling tires.
- Improperly fitted rim can separate if the tire is inflated. When inflating tires, do not work in front of the rim. Use correct inflation pressure.
- When dismounting a tire, chock other tires for safety.
- When welding job is carried out near the tires, use extreme care, as this can cause an explosion of the tires.



### 2.1.5 Unloader valve

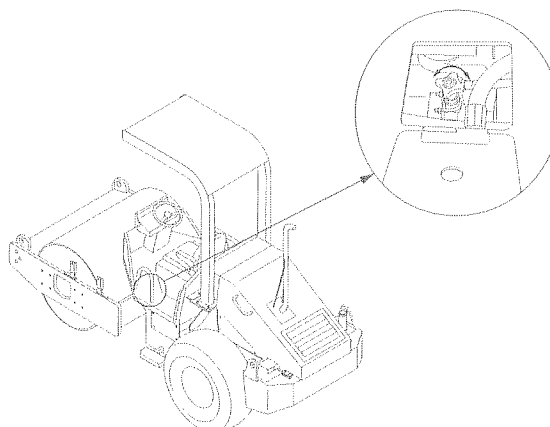
The unloader valve disengages the drive, playing a role like a clutch. Use this valve for towing the machine when the engine is disabled or when troubles have developed in the hydraulic drive.

For towing:

Turn the knob counter-clockwise (Unload).

For normal traveling:

Turn the knob clockwise (Onload).



#### **⚠ WARNING**

- On a slope, chock the wheels and use extreme care when handling the unloader lever and towing the machine.
- Be sure to apply the parking brake when operating the unloader lever.

**NOTE:** For normal travel, be sure to hold the unloader in the ONLOAD position.

Leveling blade lift lever (SV201TB)

With the SV201TB, the leveling blade is operated from a single control lever.

The lever has four positions; RAISE, HOLD, LOWER and FLOAT.

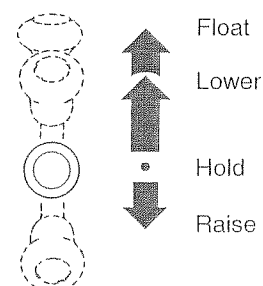
**Raise :** To raise the blade, pull the lever backward. The lever automatically returns to the Hold position when released.

**Hold :** When this position is selected, the blade stays in any position.

**Lower:** To lower the blade, push the lever forward. The lever automatically returns to the Hold position when released.

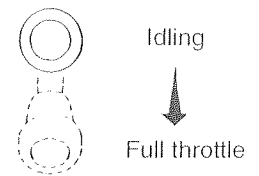
**Float :** Push the lever forward to its full extent. In this position, the blade becomes free to ride up and down over the ground, following the ground configuration as the machine travels. The lever stays in the Float position even if it is released.

(SV201TB)




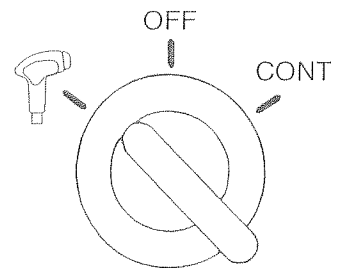
## 2.4 Vibratory Operation

- 1) Run the engine at 1,800 rpm or higher by operating the throttle lever.



- 2) Also, by means of vibration selector switch, the selection can be made between the vibration switch installed to the forward-reverse lever and the other one located on the panel to the right of operator seat.

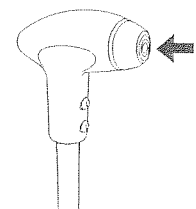
 position: Vibration can be turned ON or OFF with the switch located on the forward-reverse lever. Pressing this switch causes the vibration to start and pressing it again to stop.



Vibration selector switch

OFF position: Vibration is Shut down.

CONT position: Have this switch placed at this position when vibration is not to be actuated.



Vibrator switch

- 3) Proper travel speed for vibratory compaction is 2 ~ 5 km/h, however, select speeds depending upon job requirements.

### IMPORTANT

- Keep the vibrator shut off when the machine is not rolling.
- Stop vibration if the machine has encountered a running difficulty, for example, when it gets stuck in the mud.

## 2.5 Precautions for Work

### 2.5.1 Compaction operation

#### ■ Do not operate the vibrator on hard location

- Do not work the vibrator on a hard surface such as concrete pavement, as this can cause the machine to jump and give abnormal shock load. Damage to shock isolators will result.

#### ■ Change the direction of travel gently.

- When changing the direction of travel during asphalt mix compaction, slowly shift the F-R lever.

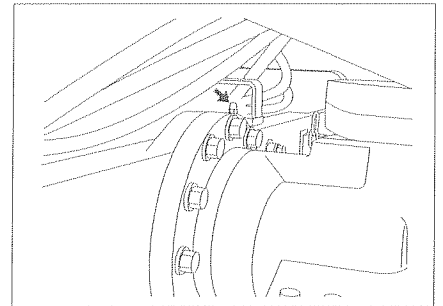
System or Mechanism	Part name	Periodical replacement maintenance parts	Replacement period	Remarks
1. Brake system	Master cylinder	Seals (rubber parts)	2 years	Adopted machines only
	Wheel cylinder	Seals (rubber parts)	2 years	//
	Brake piping parts	Brake hose	2 years	
		Air hose	2 years	Adopted machines only
Operating parts	Cable	4 years	//	
2. Steering system	Orbitrol	Seals (rubber parts)	2 years	
	Hydraulic piping parts	Hydraulic hose	2 years	
	Steering cylinder	Seals (rubber parts)	2 years	
	Hydraulic pump	Seals (rubber parts)	4 years	
3. Power transmission system (inclusive of axle)	Axle	Seals (rubber parts)	4 years	Adopted machines only
	Travel pump	Seals (rubber parts)	4 years	//
	Travel motor	Seals (rubber parts)	4 years	//
	Hydraulic piping parts	Hydraulic hose	4 years	//
	Isolation rubber	Isolation rubber itself	4 years	//
4. Fuel system	Piping parts	Fuel hose	4 years	
5. Engine related	Engine mounting parts	Isolation rubber	4 years	
	Seals (rubber parts)	Packing and others	4 years	
	Drive parts	V-belt	2 years	
6. Cooling system	Piping parts	Radiator hose	2 years	
7. Control related parts	Cable	Cable	4 years	Adopted machines only

**⚠ CAUTION:**

- With a new machine, change the engine oil and change the engine oil filter elements after 50 hours of operation for the first time only. (Refer to page 53)
- When trouble occurs in the location indicated by the indicator lamp on the monitor display, sensor will work and corresponding lamp comes on. If this occurs, conduct necessary service regardless of the periodical service interval recommendation.
  - 1) The hydraulic filter (line filter) warning lamp ⇨ Replace elements
- Check the electric wiring at a regular interval not exceeding one month:
  - 1) Damage to the wire harness and loose clamps
  - 2) Loose sockets
  - 3) Function of electrical systems

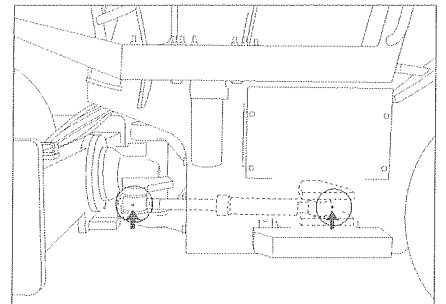
⑳ Tilt pin bearings

Apply grease.



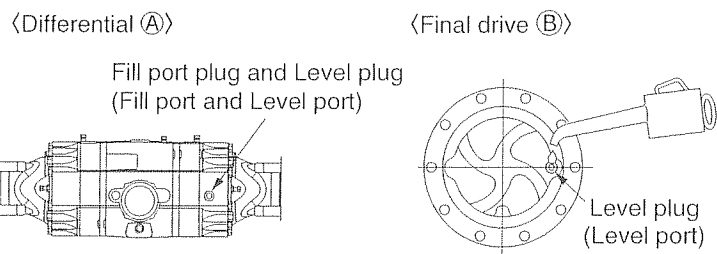
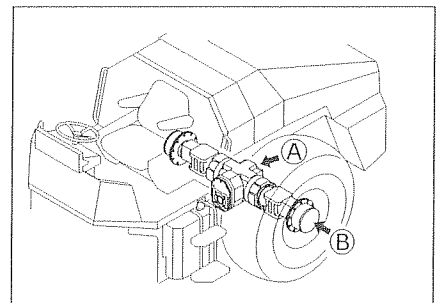
㉑ Steering cylinder

Apply grease at 2 locations.



㉒ Differential and final drive

Check for oil level, and add oil through the fill port as necessary.



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