

⚠ 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

TW320 -1

TW330 -1

From TW320-1 → 4TW50 — 40104~
TW330-1 → 4TW51 — 40104~

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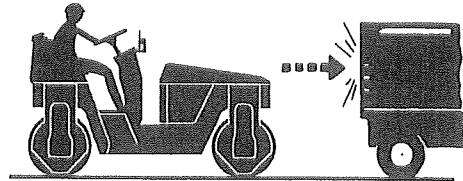
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⚠ WARNING: Negligence of these instructions can lead to accidents.

1. BASIC PRECAUTIONS FOR SAFETY

■ Know the stopping distance.

- When traveling on a road, bear in mind the stopping distance. Avoid excessive speed, and abrupt starting and stopping, and moving in a zigzag direction.



1.3 Before Starting the Engine

■ Adjust the operator's seat to your most effective operating position.

- Sit on the operator's seat. Adjust the seat so that your back will make contact with the seat back when the brake pedal is depressed to the full extent. Check to be sure that the brake pedal can be fully depressed without difficulty when you twist your body for reverse run.

■ Secure good visibility (with canopy)

- Keep the windowpane clean.
- Lock the windows and doors no matter whether they are open or closed.
- Do not leave the doors half-closed.

■ Secure forward and backward visibilities.

- Adjust the rear view mirrors and under mirrors for good visibility. If dirty, clean them. If damaged, replace.

■ Check that the horn, lamps and gauges work correctly.

■ Before starting, make certain that each lever is in the neutral position and the parking brake is applied.

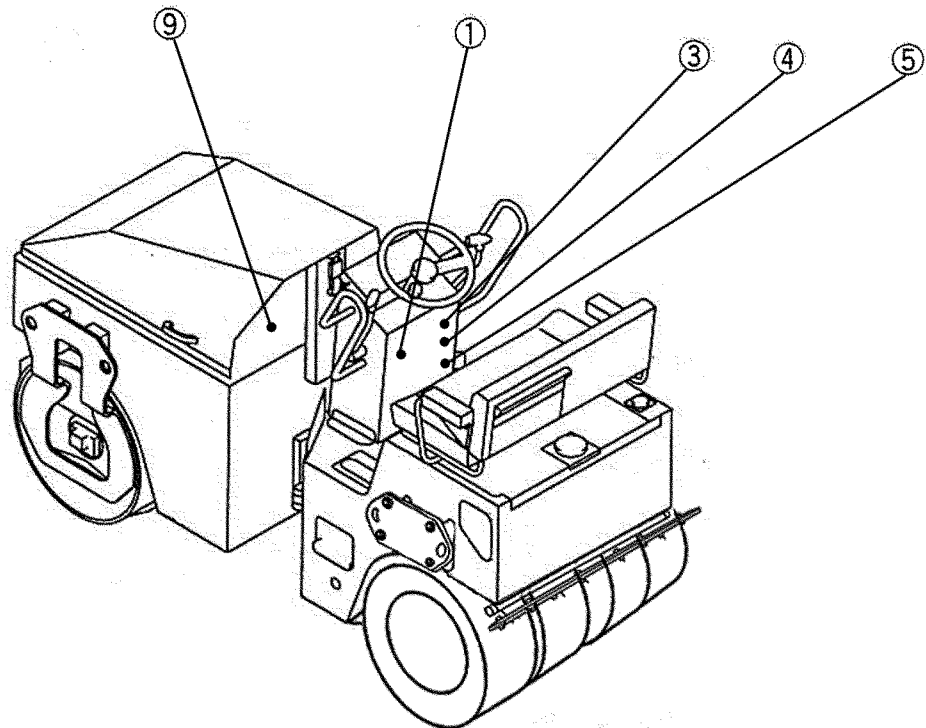
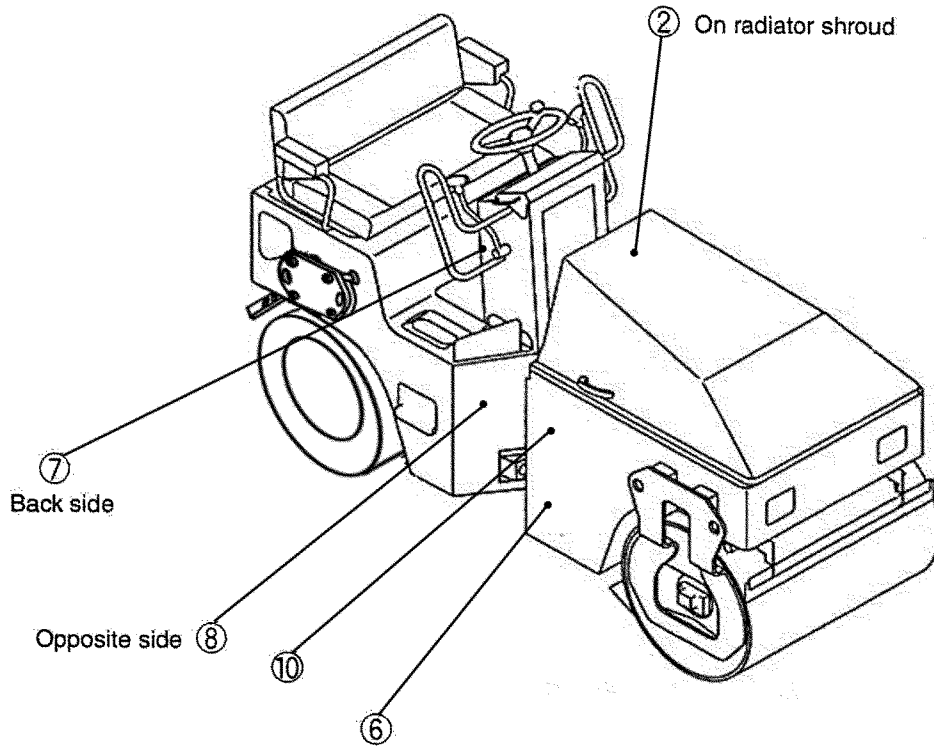
■ When starting, sound the horn.

- Before starting the engine. Make sure there is no one in the immediate vicinity and there are no obstructions around the machine.



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1. BASIC PRECAUTIONS FOR SAFETY



2. OPERATION

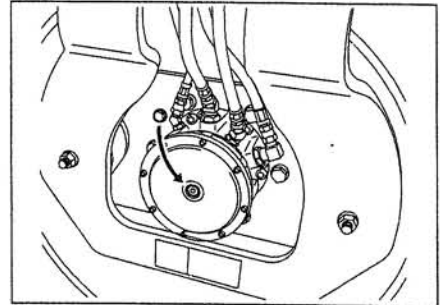
2.2.3 Disengaging the brake when towing

⚠ WARNING

On a slope, chock the drums and prepare for towing before disengaging the brake.

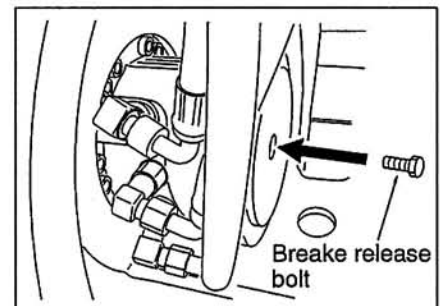
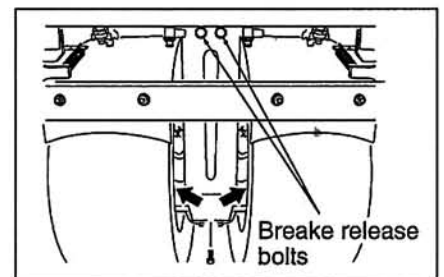
1) Front brake

- ① Remove the brake release bolts and washers (1 location) from the machine frame.
- ② Remove the plug of the hydraulic motor.
- ③ Put the bolt through the washer into the plug hole and tighten the bolt. The brake will be released when the bolt is tightened to a certain extent.
- ④ When towing is complete, set the bolts and washers in the original position and fit the plugs in the motors securely.



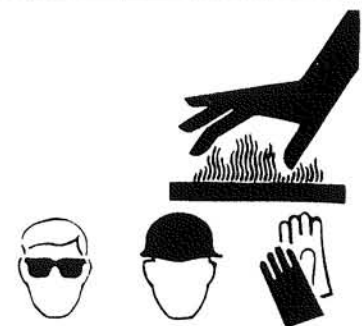
2) Rear brake

- ① Remove the protection cover of the hose for rear wheel.
- ② Remove the plug of the hydraulic motor.
- ③ Put the protective cover mounting bolt and washer into the plug hole and tighten the bolt. The brake will be released when the bolt is tightened to a certain extent.
- ④ After traction, attach the bolt and washer back to the original position, and tighten the plug to attach it completely to the motor.



⚠ WARNING

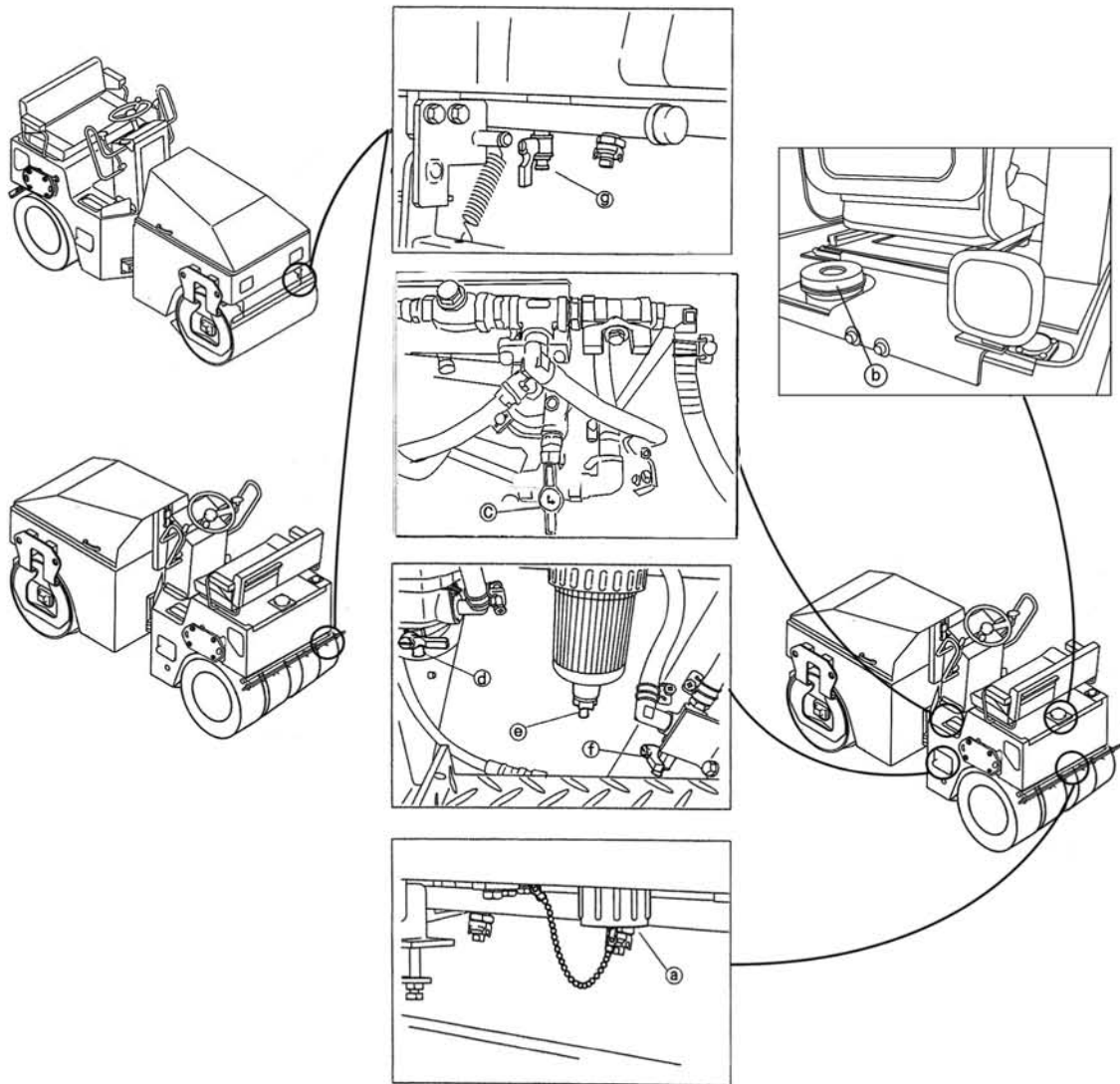
- Do not try to release the brake immediately after a hot engine has been stopped. Let the oil cool down.
- For the brake disengagement, wear hard hat and safety goggles.



NOTE: Perform the work rapidly, as the oil will gush out as the plugs are taken off. Wash clean the brake release bolts and blank plugs before fitting to the motors.

2. OPERATION

Water may not come out of the sprinkler nozzle when an attempt is made to spray water again after draining the water according to the procedure shown on p.37 in that case, operate the machine according to the procedure shown below.



Supplementary explanation of air-bleeding

- (1) Check that all caps and valves (a), (c) - (g) are closed.
- (2) Start the sprinkler pump.
- (3) Repeat open-close operation of air bleeder valve (d) to remove air from the pipeline.
(Water will be discharged simultaneously.)
- (4) After confirmation of complete removal of air, close air bleeder valve (d).

IMPORTANT

When the sprinkler filter was blurred, air-bleeding may not be able to do.
In that case, clean the sprinkler filter.

2. OPERATION

2.15 For a Long Storage Period

For leaving the machine unused for longer than one month, proceed as follows:

- 1) Store the machine in a closed area after cleaning.
- 2) Conduct oiling, greasing and changing of oil.
- 3) Grease lubricate the exposed portion of hydraulic cylinder piston rods.
- 4) Cover the battery after disconnecting the negative cable or take off the battery from the machine and store in a safe place.
- 5) If the temperature is expected to go down below 0°C, add antifreeze to the coolant.
- 6) Completely drain the sprinkler water.
- 7) Place the F-R lever in the neutral position (N), turn the vibrator and sprinkler switches off and apply the parking brake.
- 8) Chock the machine.
- 9) Remove the starter switch key.

2.16 During the Storage Period

⚠ WARNING

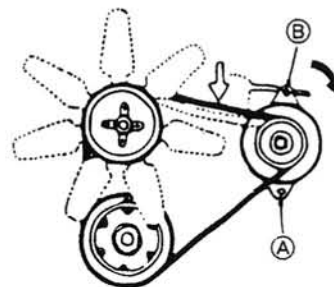
If necessary to operate the machine for anti-corrosive purpose in closed area, ensure good ventilation keeping windows and doors open to prevent gas poisoning.



- During storage, operate the machine at least once a month to prevent the oil films on the lubricated parts from deteriorating and to charge the batteries.

⑧ Fan belt

- 1) Check the fan belt for wear and damage. Replace as necessary.
- 2) Check the tension. Depress the middle of belt with a push of about 10kg. A properly adjusted belt deflects about 10mm.
- 3) To adjust, loosen alternator bracket bolt (A) and plate bolt (B), and slide the alternator.

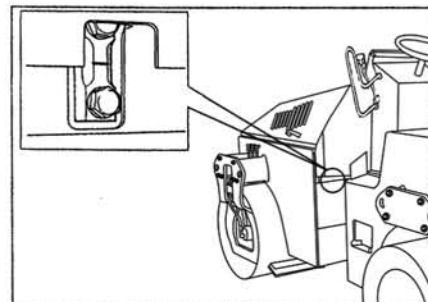


⑩ Battery

- 1) The color of the indicator at upper part of the battery indicates the state of the battery.
- 2) Retighten any loose terminal. Apply grease or vaseline to the terminals to retard rusting.

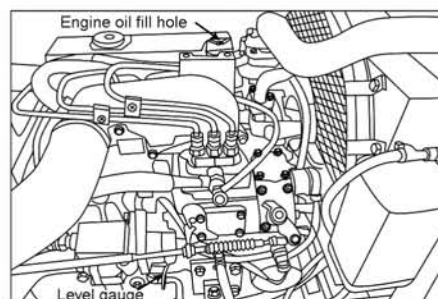
⑪ Hydraulic tank

Check the oil level with the sight glass on the side of tank. The level is proper if it is between H and L marks. If necessary, add the hydraulic fluid from the fill port.



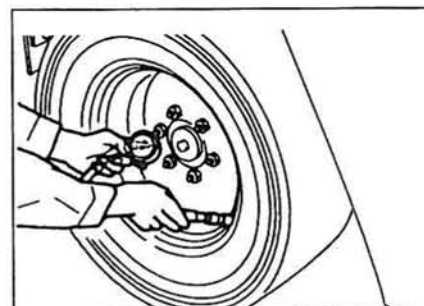
⑬ Engine oil pan

Shut down the engine and check the engine oil level. If it is not between MAX and MIN marks, add oil through the fill hole.



⑳ Tires

- 1) Check for unusual wear and damage.
- 2) Check for the inflation pressure.
294 kPa (3.0 kgf/cm²)
- 3) Check the wheel nuts for looseness.



3. PERIODICAL MAINTENANCE

③ Checking after the replacement (Measuring the brake piston stroke)

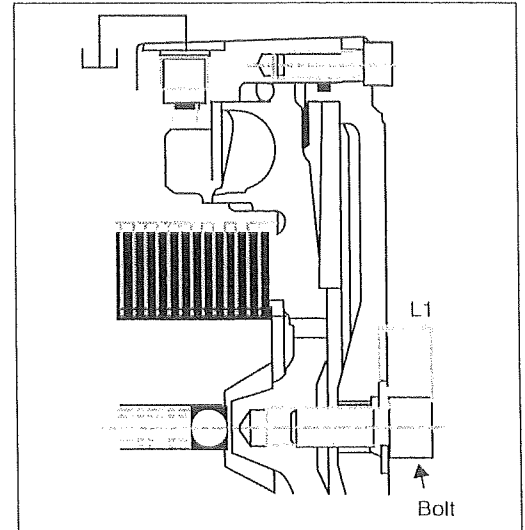
The check value specified in this paragraph is for new brake disk immediately after having been installed for replacement. Please note that it is different from “Replacement Standard” in the next paragraph which represents the case where the brake has been in use.

1) Forced releasing bolt

Install hex. socket bolt for forced brake releasing. Do not tighten the bolt all the way, but leave it floating off the seat thereof.

	DCM0280
Bolt (Pitch)	M10×25L (1.5)

With the brake releasing pilot port opened to atmosphere (brake being locked), measure the height of bolt head from brake cover by means of depth slide calipers. <L1>



2) Checking the brake stroke

Measure the height of bolt head by means of depth slide calipers while complete releasing pressure being applied to the brake releasing pilot port (brake released). <L2>

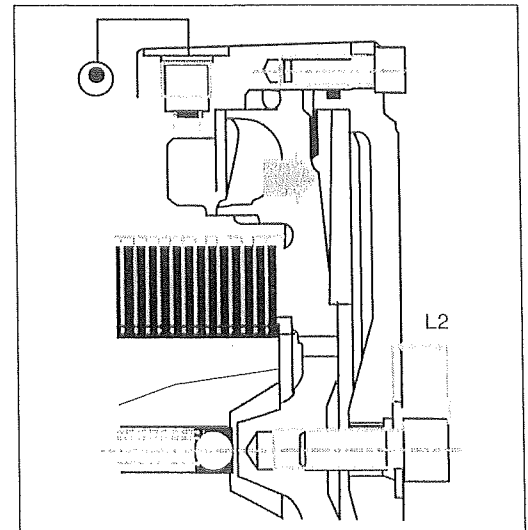
$$\text{Brake stroke} = L2 - L1$$

★ Specified value

The brake stroke is proper if it remains within the range shown below.

If it exceeds, adjust it with shim(s) in use.

	DCM0280
Brake stroke length for new disk.	1.6 ~ 2.3



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