



MODEL

**35B**

**CLARK**

**WHEEL LOADER**

**OPERATOR'S MANUAL**

Book No. S-637DE

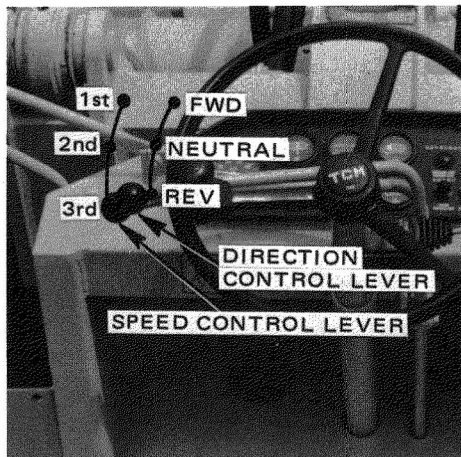
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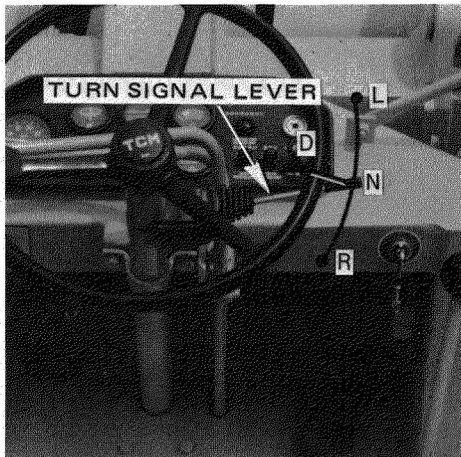
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### CHANGE LEVERS

The two change levers, direction and speed control, are equipped to control the traveling direction and speed of the machine. When the traveling control lever is placed in the "reverse" position, the back-up light comes on.

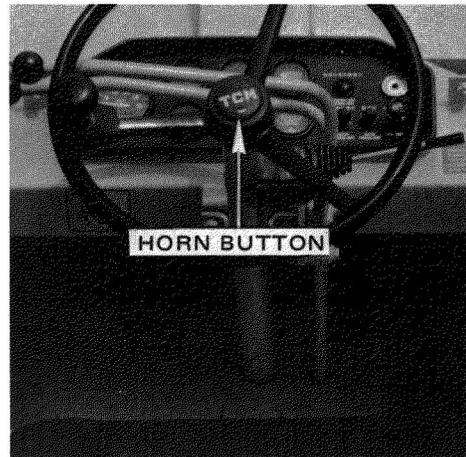


### TURN SIGNAL LEVER (w. dimmer sw)

Use this lever to indicate the turning direction of the machine. When this lever is placed in a turn position, the turn signal light blinks. Pulling it toward you will diminish the intensity of the head light illumination.

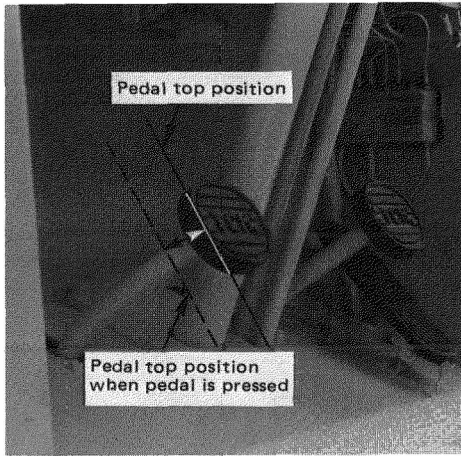
L	Left indicator blinks
N	No light blinks
R	Right indicator blinks
D	Dimmer (Beam angle is lowered)

This lever does not return automatically to the neutral position when the steering wheel is restored. Don't fail to return this lever to the neutral.



### HORN BUTTON

Horn sounds by pressing the horn button at the center of the steering wheel. Don't abuse it more than necessary.



## BRAKE

Inspect the brake pedals and the parking brake lever.

### Brake Pedals

Travel the machine slowly and press each brake pedal to check for braking performance, uneven braking force and pedal play.

### Free Travel Check

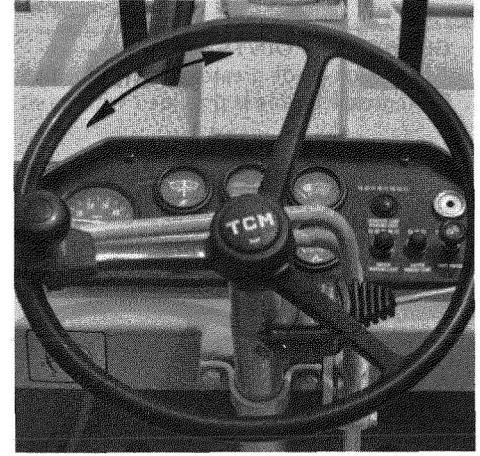
Press the pedal with your fingers lightly until it clicks and check the moving distance of the pedal top.

Free travel: 5 to 15 mm (standard: 10 mm)



### Parking Brake Lever

Check the parking brake lever for effect and mounting condition. When parking, pull back on the lever completely. If there is a play in operation, adjust by turning the knob on tip of the parking brake lever.

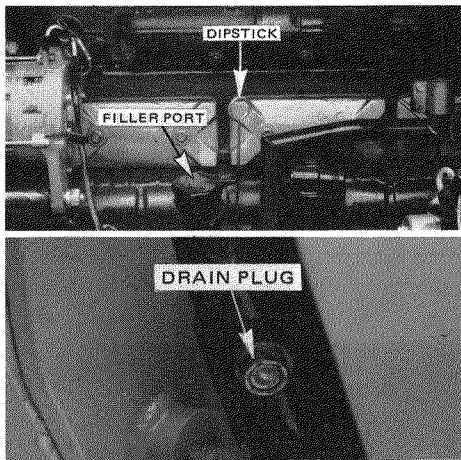


## STEERING WHEEL

Check the steering wheel for peripheral play and vertical looseness.

**Checking for Play ( ⚠ Be alert to fellow workers around the machine)**

Raise the bucket off the ground, run the engine at idle and turn the steering wheel clockwise and anti-clockwise by holding the steering knob. Check inoperative range of the steering cylinders by observing the motion of the bucket and tires. The normal peripheral play of the steering wheel is 10 to 20 mm.



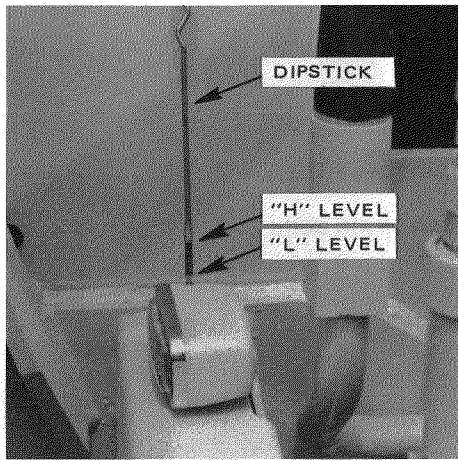
## ENGINE

Check for engine oil level and change oil.

### Oil Level Check

Check engine oil for level, contamination and foreign matter. Remove the dipstick and wipe its end with waste cloth, then insert it again. Take it out and check the oil level and condition by examining the oil sticking to the dipstick. The level should be between the "H" and "L" levels. If not, add oil to bring level to the "H" level. Oil level check should be performed before work or approximately 15 minutes after the engine is shut down.

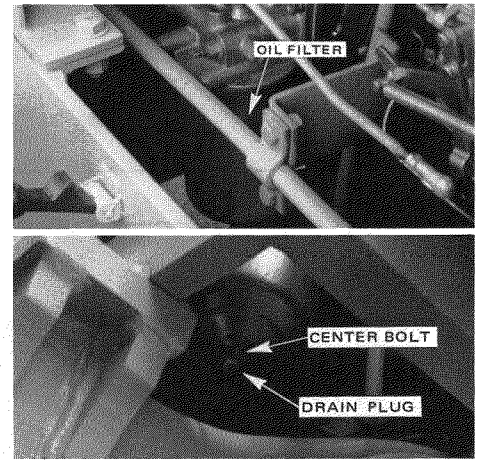
If oil is excessively contaminated or foreign matter is found, change the oil.



### Oil Change

Remove the drain plugs of the oil pan and oil filter to drain engine oil. Add new oil from the oil filler port to bring level to the "H" level. Start the engine and let it run for a while at low rpm. Stop engine and check the oil level and add oil, if needed, to bring level to "H" level. Do not overfill.

The engine oil should be changed while the engine is warm.



## OIL FILTER

Replace the element and clean the inside of the case as follows: remove the drain plug to drain water mixed in engine oil and sediment on the bottom of the case. Next, loosen the center bolt and take out the filter element along with the case and replace the element with a new one. After replacement of the element, start the engine to see if no oil leak is found.

**OTHERS**

ITEM \ HOURS	10 hrs	50 hrs	100 hrs	250 hrs	500 hrs	1000 hrs
Machine cleaning	○					
Retightening major bolts	1st time only: ○		○			
Oil leak at each part	○					
Damaged piping	○					
Noise from pump or valve	○					
Previous day's trouble check	○					

## HOW TO USE BRAKE PEDAL

### **By pressing the brake pedal to the bottom:**

You can raise the load handling system speed in digging and scooping with the accelerator pedal pressed. This is because the transmission is placed to neutral and power from the engine is concentrated to the load handling system. Use this technique, for example, when raising the boom speed with the machine stationary.

### **By pressing the brake pedal to the bottom then releasing slightly:**

You can move the machine inch by inch. Use this technique to stop and go in a short interval, for example to move to the dumping position in loading into the truck and dumping into the hopper.

## TRANSPORTING THE MACHINE

### **When Towed By Another Vehicle**

When your wheel loader gets disabled and is towed by another vehicle, the front and rear propeller shafts should be removed because the transmission is not supplied with oil.

### **When Towing Another Vehicle**

Do not tow a vehicle with a defective brake system.

**Be sure to observe local traffic regulations when towing a vehicle on public roads.**

### **Loading onto a truck**

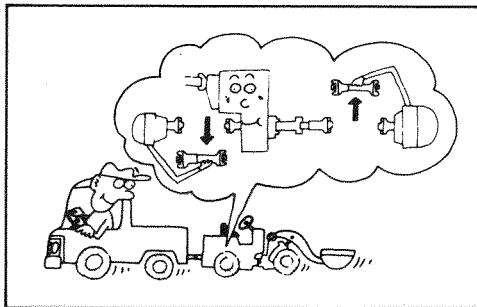
Securely lock the machine in place on the truck to prevent it from moving during sudden stops or on steep grades by using wire ropes and blocking the wheels. Set the safety link. When loading or unloading the machine onto a truck, use due caution to the overall length, width, height and weight of both the machine and the truck. If you must transport over public roads, be sure all local regulations are followed.

## **▲ IF ENGINE STOPS DURING TRAVELING**

The brake system provides poor braking effect due to inoperative booster. If needed, press the brake pedal to the full. Move to an out-of-traffic area.

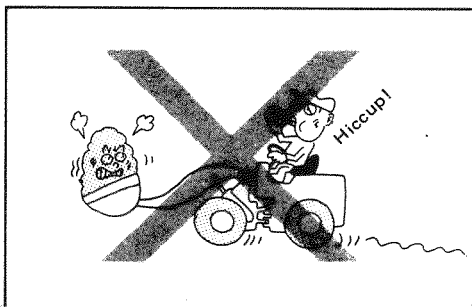
On the steering system, a hard steering operation is caused because the hydraulic system becomes inoperative.

In such a case, immediately restart the engine. Especially, due care should be exercised when traveling or working in a public road or confined working area.



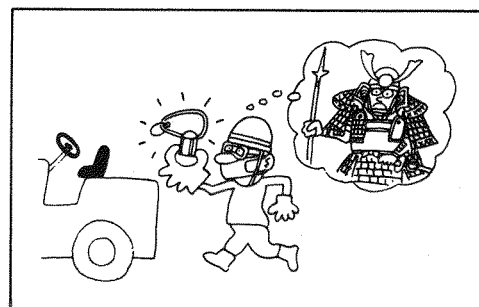
#### When towed

When the machine is towed by another vehicle, remove the propeller shaft which transmits power from the transmission to the differential to prevent seizure of the clutch plate.



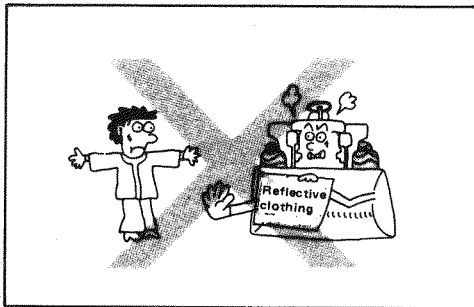
#### Don't drink

⚠ Don't drink before or during work. The operator should keep the engine key.



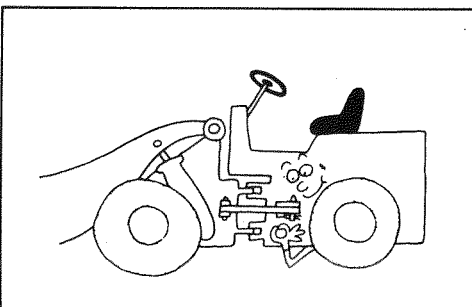
⚠ Wear all the protective clothing and personal safety gear devices called for by job conditions, such as a helmet, safety shoes, reflective clothing, etc. When you wear gloves, pay attention to projections or the like which could hook the gloves.

### OTHERS



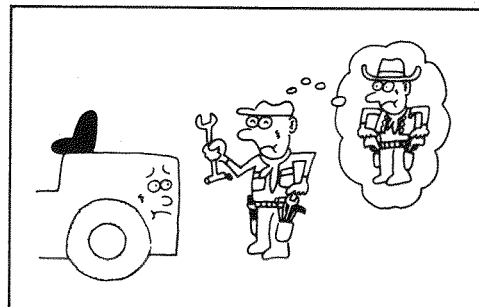
#### Protect yourself

⚠ Wear a safety cap, reflective clothing and safety shoes. Also wear safety goggles, gloves and a mask, if needed.



#### When inspecting the machine

Set the safety link securely.



Use proper tools and jigs. Don't put them in the pocket of your clothing.

## LONG TIME STORAGE



### **When the machine is out of service for a month or so.**

Perform the following service and checks in addition to the "DAILY STORING" services.

- ★ Move the machine at least once a week. Keep all controls in good operating conditions.

### **When the machine is out of service longer than a month**

Perform the following service and checks in addition to the "DAILY STORING" services.

- ★ Check oil level in each reservoir.
- ★ Taking the rainy season into consideration, park the machine at a higher and hard ground.
- ★ Dismount the battery from the machine.  
Even though the machine is parked indoors, if the place is hot or humid, the battery should be kept in a dry, cool place. Charge the battery once a month.
- ★ Apply antirust to the exposed parts such as cylinder rods and shafts which tend to rust.
- ★ Cover components such as the breather and air cleaner which may be caught with humidity.
- ★ Set the tire inflation pressure at the specified value and check for wear or damage. If checks unsatisfactory, replace with new one. To eliminate load applied onto the tires, raise the machine a little by a jack or the like.  
If it is not possible to raise the machine, check the tire pressure every two weeks and always keep the tires at the specified inflation pressure.

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