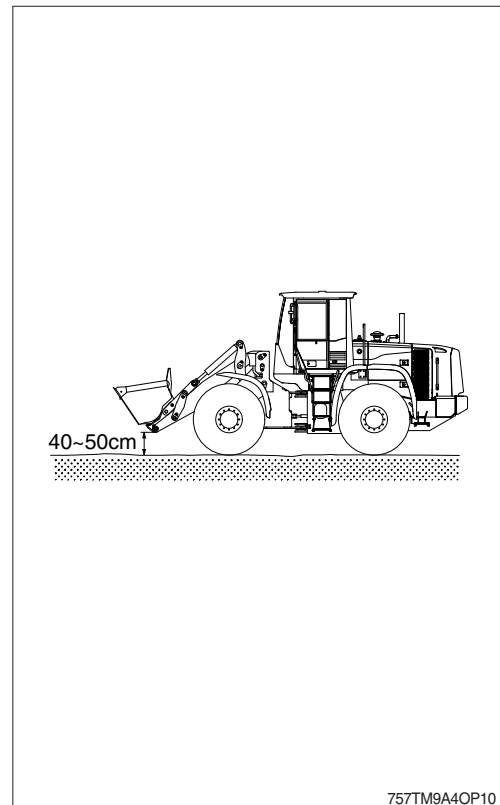


## 5. TRANSPORTATION

### 1. ROAD TRAVELING

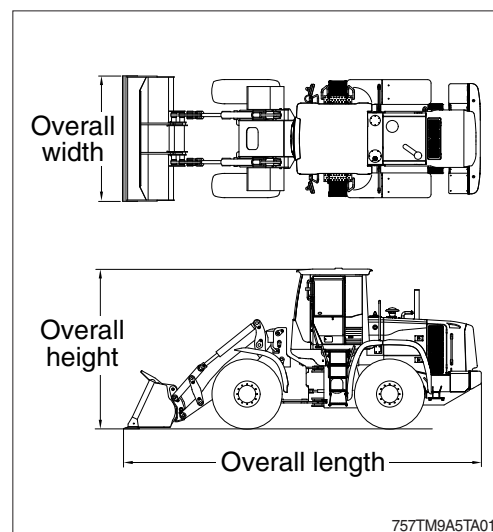
If it is necessary to travel on a road, observe the followings.

- 1) Comply with regulations regarding this machine for the sake of safety.
- 2) Perform daily inspection before starting the machine.
- 3) Check the air pressure of tires and traveling speed limitations.
  - Air pressure : See page 6-33.
  - Maximum speed : 38.5 km/hr (24.0 mph)
- 4) When traveling for a long distance, stop every hour or every 40 km (25 mile) to allow tires and other components to cool down and check any abnormality.
- 5) Drive with the bucket empty.
- 6) Travel at a mid-range speed and be careful to drive within the limited speed when driving on a public road.



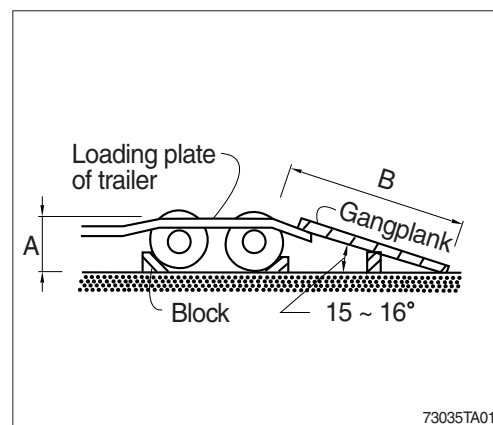
## 2. PREPARATION FOR TRANSPORTATION

- 1) When transporting the machine, observe the various road rules, road transportation vehicle laws and vehicle limit ordinances, etc.
- 2) Make sure the cooling system has proper anti-freeze if moving machine to a cold climate.
- 3) Select proper trailer after confirming the weight and dimension from the page 2-2~2-5.
- 4) Check the whole route such as the road width, the height of bridge and limit of weight and etc., which will be passed.
- 5) Get the permission from the related authority if necessary.



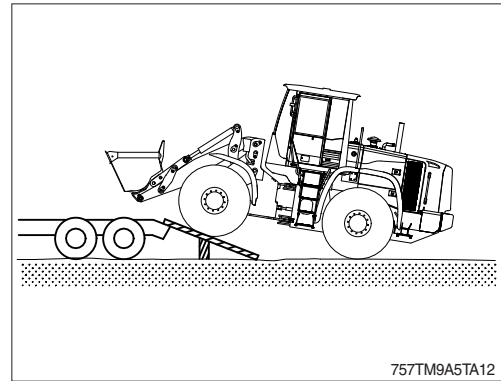
- 6) Prepare gangplank for safe loading referring to the below table and illustration.

A	B
1.0	3.65 ~ 3.85
1.1	4.00 ~ 4.25
1.2	4.35 ~ 4.60
1.3	4.75 ~ 5.00
1.4	5.10 ~ 5.40
1.5	5.50 ~ 5.75

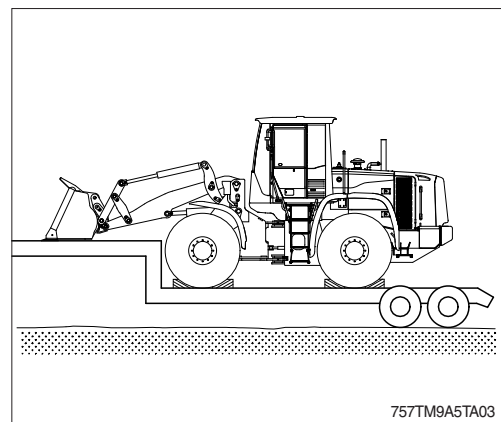


### 3. LOADING THE MACHINE

- 1) Load and unload the machine on a flat ground.
- 2) Use the gangplank with sufficient length, width, thickness and gradient.
- 3) Move slowly and carefully when the machine is on the gangplank.  
Do not change the direction of the machine while it is on the gangplank.

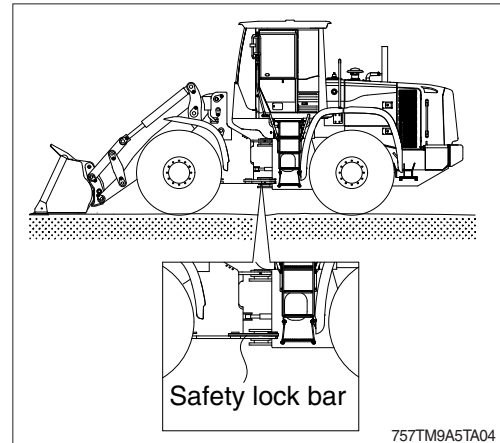


- 4) Do the following after loading the machine to the trailer.
  - (1) Lower the working equipment gently after the location is determined.
    - ※ Place rectangular timber under the bucket cylinder to prevent the damage of it during transportation.
  - ▲ Do not operate any other device when loading.
  - ▲ Balance the load.

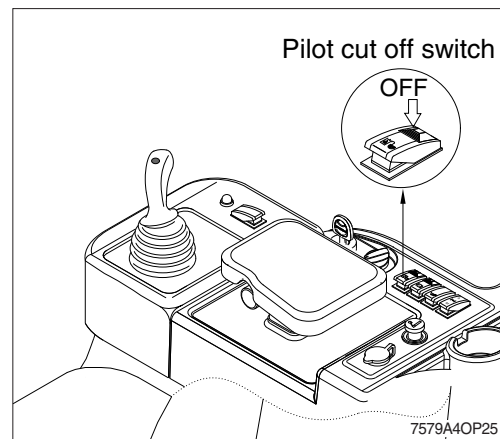


## 4. FIXING THE MACHINE

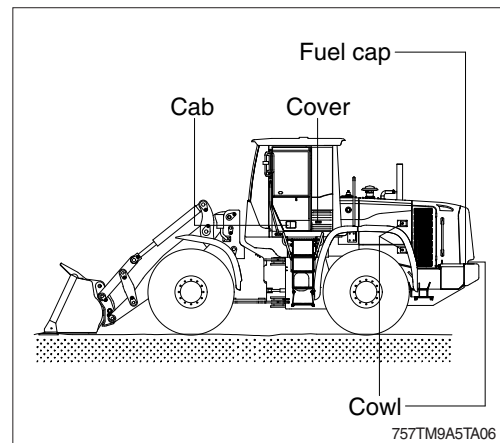
- 1) Fix front and rear frame by linking safety lock bar.
- 2) Push the parking brake switch.



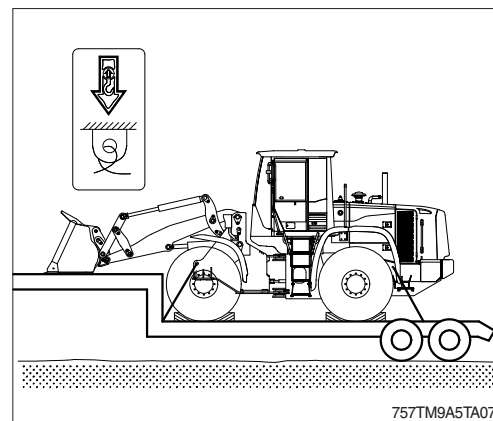
- 3) Push the pilot cut off switch to the OFF position to prevent the hydraulic system from operating.
- 4) Stop the engine, turn the starting switch off and remove the key.



- 5) Secure all locks.

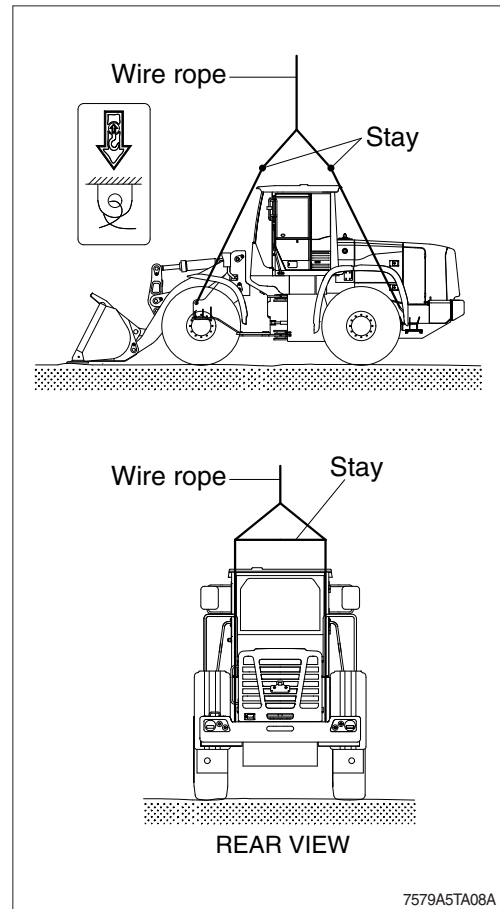


- 6) Block the tires and fix firmly with wire rope or chain to prevent the machine from moving during transportation.



## 5. LOADING AND UNLOADING BY CRANE

- 1) Check the weight, length, width and height of the machine referring to chapter 2, Specification when you are going to hoist the machine.
  - 2) Use long wire rope and stay to keep the distance with the machine as it should avoid to touch with the machine.
  - 3) Put a rubber plate contact with wire rope and machine to prevent damage.
  - 4) Place crane on the proper place.
  - 5) Install the wire rope and stay like the illustration.
- ▲ Make sure wire rope is proper size.
  - ▲ Place the safety lock bar and pilot cut off switch to the OFF position to prevent the machine moving when hoisting the machine.
  - ▲ The wrong hoisting method or installation of wire rope can cause damage to the machine.
  - ▲ Do not load abruptly.
  - ▲ Keep area clear of personnel.
  - ▲ Attach two wire ropes to the rear of the machine.
  - ▲ Attach two wire ropes to the front of the machine.
  - ▲ Connect the four wire ropes.



## 6. TOWING THE MACHINE

▲ Personal injury or death could result when towing a disabled machine incorrectly.

▲ Block the machine to prevent movement before releasing the brakes. The machine can roll free if it is not blocked.

Except for an emergency, do not tow this machine. If it is inevitable to tow this machine, observe the following.

### 1) GENERAL

(1) Parking brake cylinder of the machine is operated by the spring force and released by hydraulic pressure.

If the engine does not operate, the brake will be operated to stop the machine.

(2) When the machine is towed move it for a repair to nearby place at the speed less than 2 km/hr (1.2 mph). Transport it on a trailer, if it has to be moved for a long distance.

(3) When the steering device and the brake of the machine to be towed can not be operated, transport by trailer.

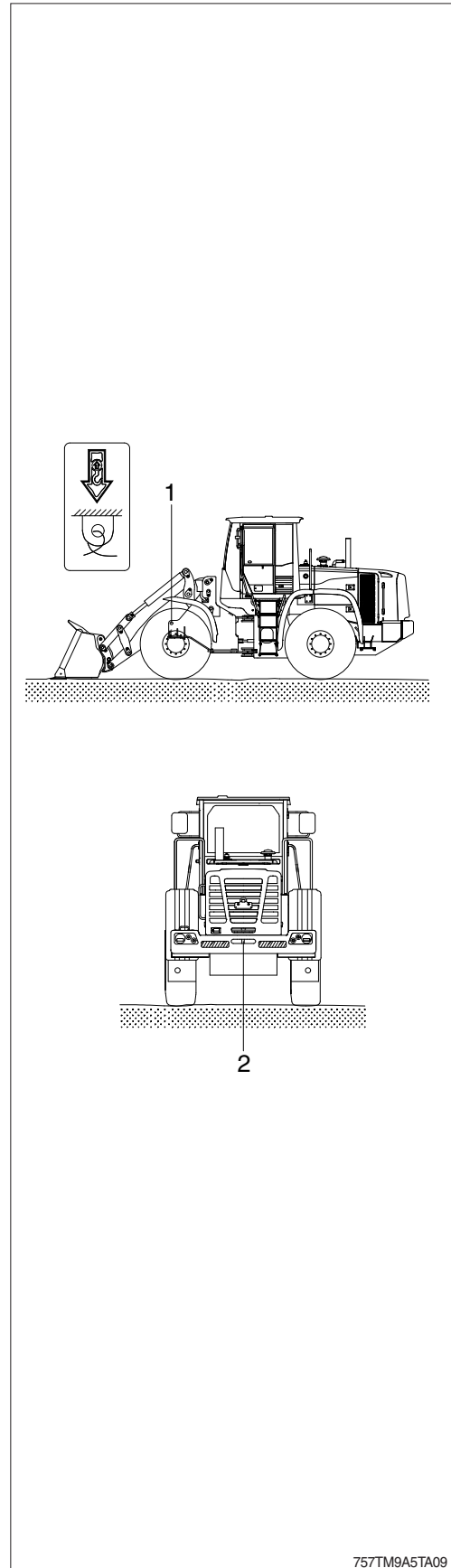
▲ Be careful when towing.

▲ Be careful that the brake will not work if there is any disorder in the braking system.

(4) When you tow the machine from the front, attach the tow line to the tow eyes on the front frame (1).

When you tow the machine from the rear, use the tow rear eyes provided for lift & tie (2).

(5) Do not use a chain for pulling a disabled machine. A chain link can break. This may cause personal injury. Use a wire rope cable with ends that have loops or rings. Place an observer in a safe position in order to watch the pulling procedure. The observer can stop the procedure, if necessary. The procedure should be stopped if the cable starts to break. Also, stop the procedure if the cable starts to unravel. Stop pulling whenever the towing machine moves without moving the towed machine.



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- (6) Keep the tow line angle to a minimum. Do not exceed a 30 degree angle from the straight ahead position.
  - (7) Quick machine movement could overload the tow line or the tow bar. This could cause the tow line or the tow bar to break. Gradual, steady machine movement will be more effective.
  - (8) Normally, the towing machine should be as large as the disabled machine. Make sure that the towing machine has enough brake capacity, enough weight, and enough power. The towing machine must be able to control both machines for the grade that is involved and for the distance that is involved.
  - (9) You must provide sufficient control and sufficient braking when you are moving a disabled machine downhill. This may require a larger towing machine or additional machines that are connected to the rear of the disabled machine. This will prevent the machine from rolling away out of control.
  - (10) All situation requirements cannot be listed. Minimal towing machine capacity is required on smooth, level surfaces. On inclines or on surfaces in poor condition, maximum towing machine capacity is required.
  - (11) When any towed machine is loaded, this machine must be equipped with a brake system that is operable from the operator compartment.
- ※ **Consult your HYUNDAI dealer for the equipment that is necessary for towing a disabled machine.**

## **2) WHEN THE ENGINE WORKS**

- (1) When the transmission system or steering wheel is workable and the engine is running, the machine can be towed only for a short distance.  
For example, pull the machine out of mud or pull the machine to side of the road.
- (2) The operator of the towed machine should turn the steering wheel into the direction in which the machine is towed.



### 3) WHEN THE ENGINE DOES NOT WORK

When towing the machine with the engine stopped, do it in the following order.

- (1) The transmission oil does not lubricate the system, so remove the front and rear drive shafts.

- (2) Loosen the steering cylinder as the steering operation is not workable.

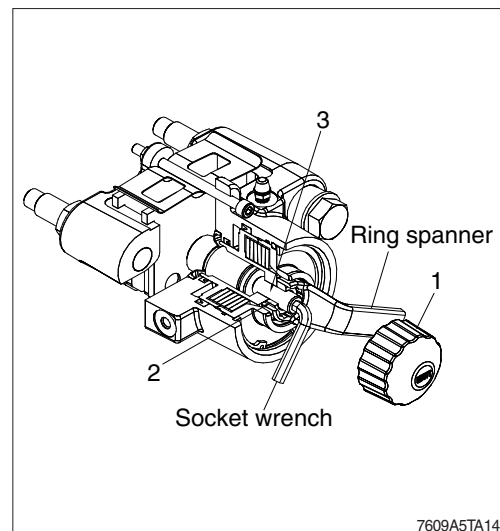
Even if the brake is in good condition, the brakes can only be used a limited number of times.

There is no change in the operating force for the brake pedal, but the braking force is reduced each time the pedal is depressed.

- (3) The parking brake is activated by spring and released by hydraulic pressure. If the engine does not work, the brake will be activated.

- ① Release the screw cap (1) in a counter-clockwise direction and unscrew it.
- ② Release the lock nut (2) and unscrew it back to the end of setting screw (3).
- ③ Rotate the setting screw (3) in a clockwise direction until the brake disc is completely free.

**▲ In this condition the machine has no parking brake facility and thus must be protected from rolling away by different means. The brake must be adjusted before recommissioning.**



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- (4) Connect firmly between the traction machine and the towed machine.

Position each traction machine at the front and rear of the machine to be towed.