

## 1. GENERAL SAFETY RULES

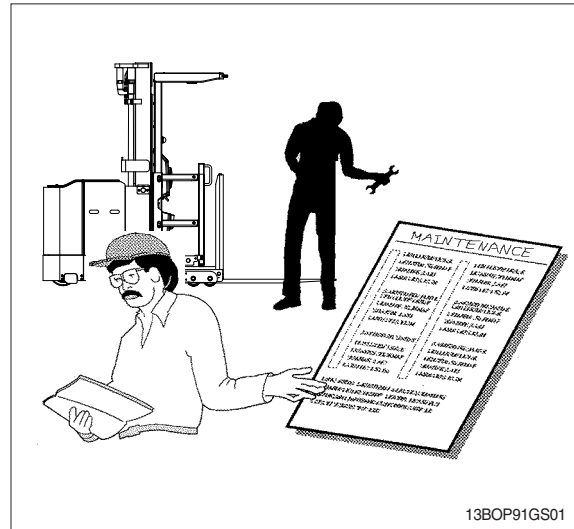
## 1. DAILY INSPECTION

At the beginning of each shift, inspect your truck and fill out a check, maintenance and lubrication table.

Check for damage and maintenance problems.

Have repairs made before you operate the truck.

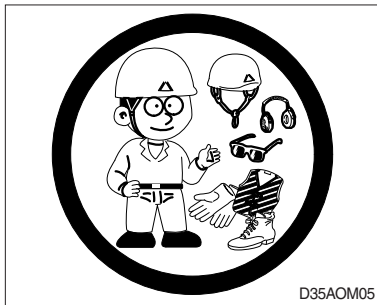
Do not make repairs yourself. Lift truck mechanics are trained professionally. They know how to make repairs safe.



## 2. DO'S AND DON'TS



Do watch for pedestrians.



Do wear safety equipment when required.



Don't mix drugs or alcohol with your job.



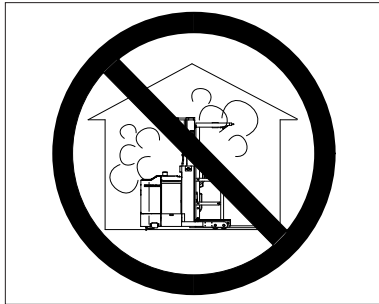
Don't block safety or emergency equipment.



Don't smoke in NO SMOKING areas or when charging.



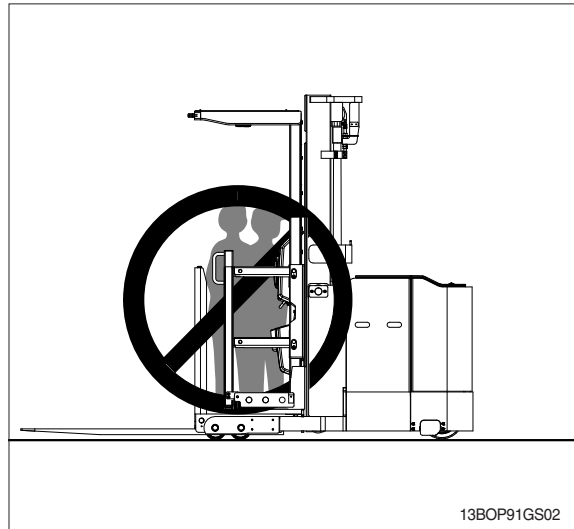
Don't operate the truck outdoors.  
The truck is designed for handling goods indoors.  
Always operate and park truck indoors.



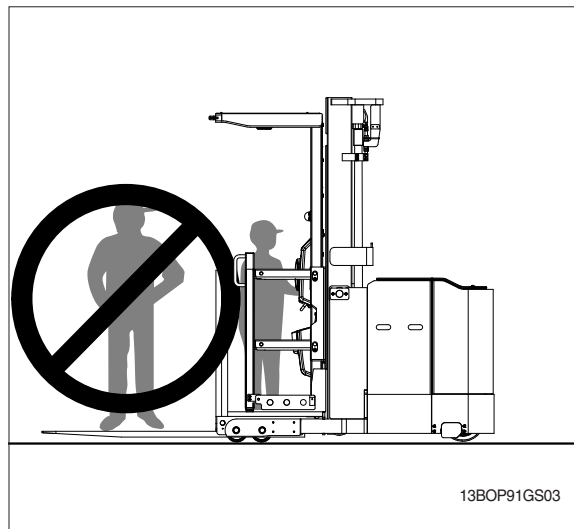
Don't perform battery charging service in the room without  
adequate ventilation.

### 3. NO RIDERS

- 1) The operator is the only one who should be on a truck.

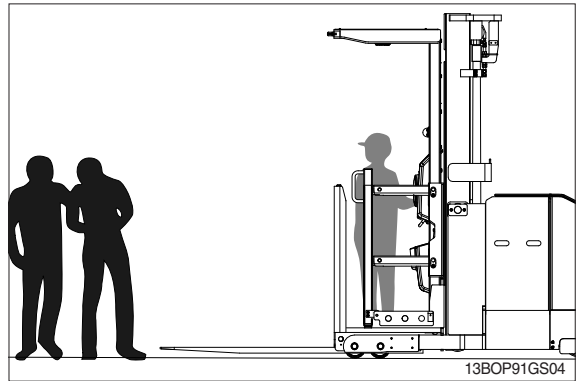


- 2) Never transport personnel on the forks of a lift truck.



## 4. PEDESTRIANS

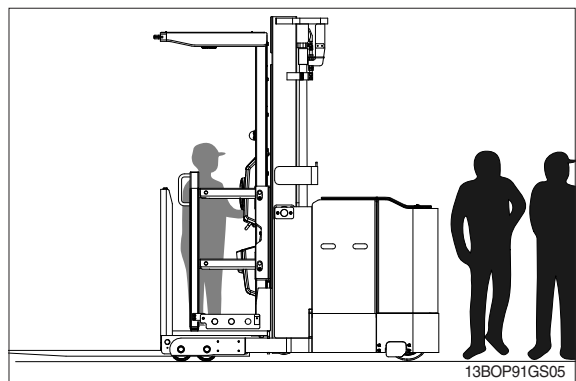
- 1) Make sure that people stand back, even when you are parked.



- 2) Watch for people in your work area even if your truck has warning lights or alarms. People may not watch for you.

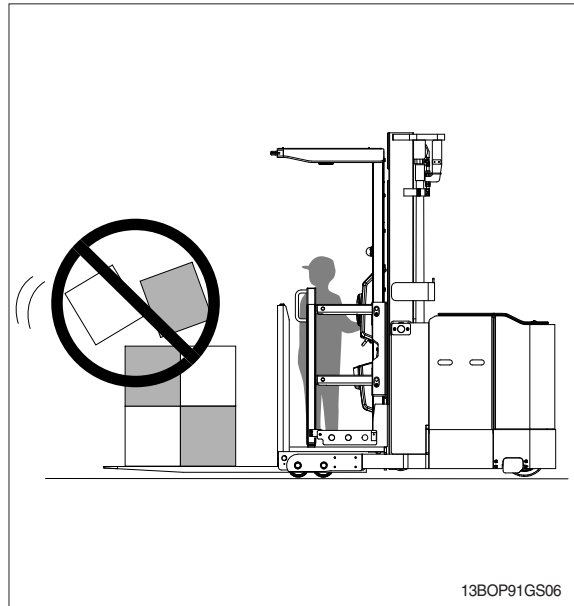


- 3) Watch where you are going. Look in the direction of travel. Pedestrians may use the same roadway you do. Sound your horn at all intersections or blind spots.

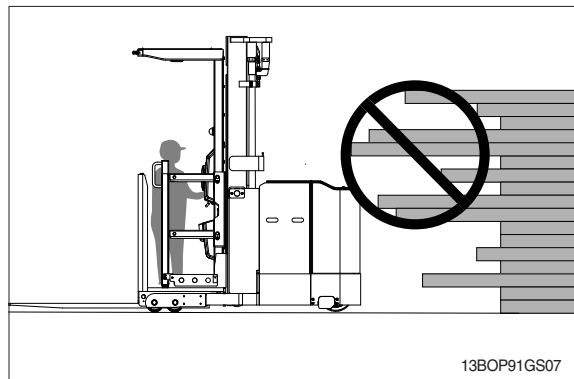


## 5. OPERATOR PROTECTION

- 1) Keep under the overhead guard.
- 2) Always keep your body within the confines of the truck.

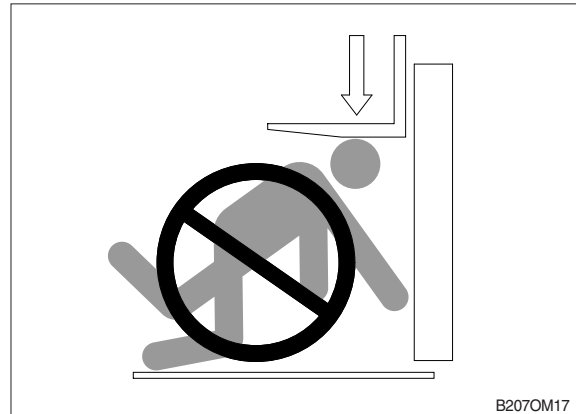


- 3) Be specially careful when traveling and maneuvering in tight areas.



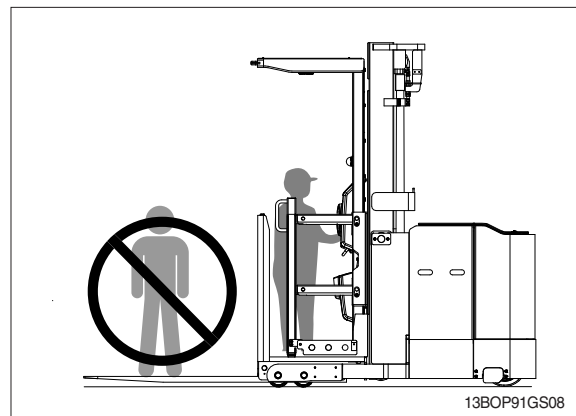
## 6. FORK SAFETY

- 1) Never allow anyone to walk under raised forks.



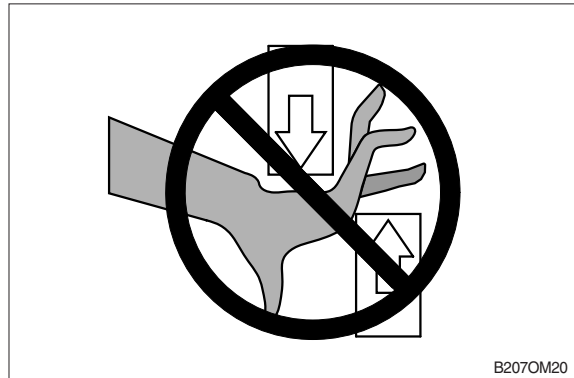
- 2) There is special equipment to raise people for overhead work.

**⚠ Don't use lift trucks.**

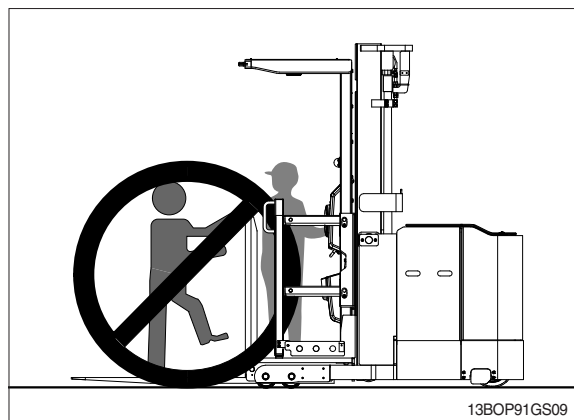


## 7. PINCH POINTS

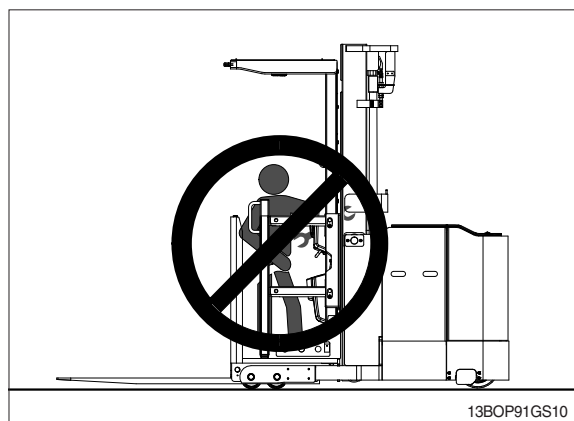
**⚠ Keep hands, feet and legs out of the mast.**



**⚠ Don't use the mast as a ladder.**



**⚠ Never try to repair the mast, carriage, chain, or attachment yourself. Always get a trained mechanic.**

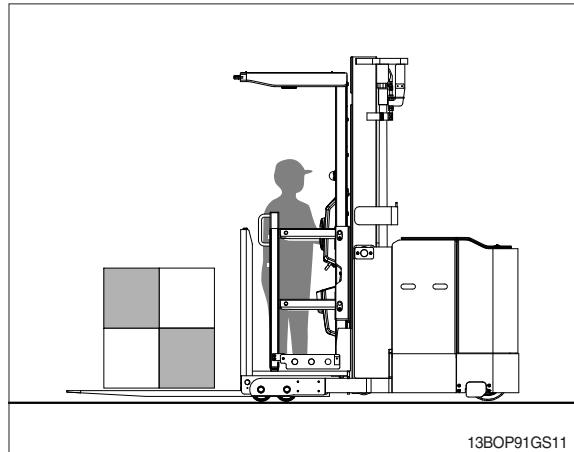




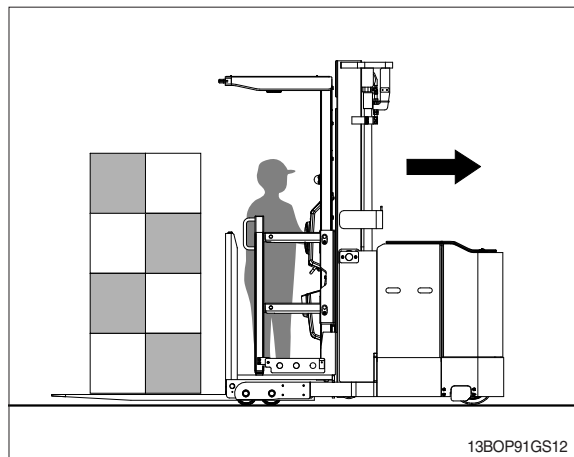
## 8. TRAVEL

- 1) Travel with the load near the floor/ground to cradle the load whenever possible.

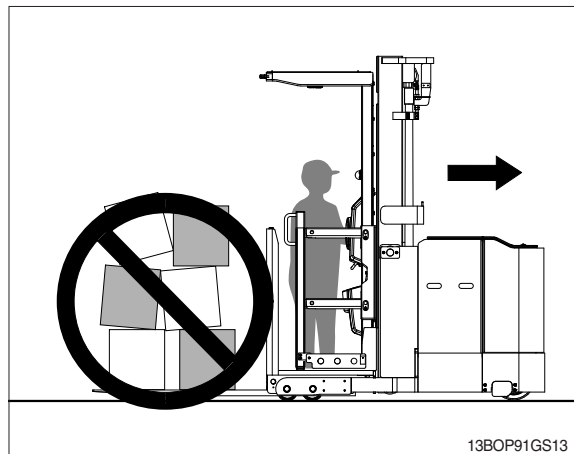
**⚠ Never lift or lower the load when the truck is in motion.**



- 2) When handling bulky loads that restrict your vision always operate your truck in front side to improve visibility.



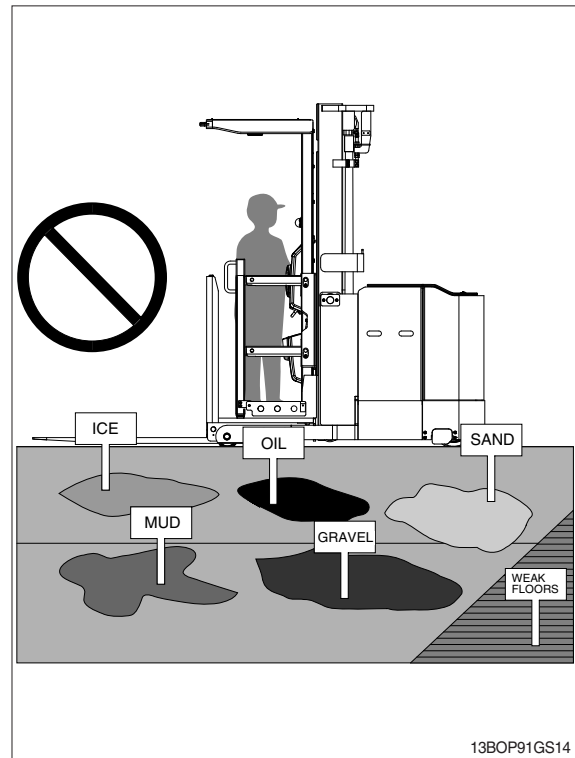
- 3) Unstable loads are a hazard to you and to your fellow workers. Always make certain that the load is well stacked and evenly positioned across both forks. Never attempt to lift a load with only one fork.



## 9. SURFACE AND CAPACITY

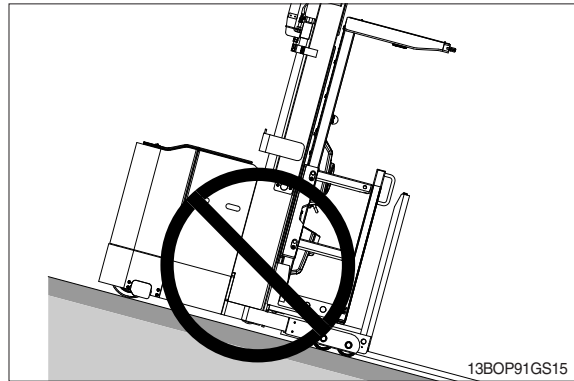
Avoid these conditions. They can cause a truck to tip over or lose traction for braking or driving.

- ⚠ **Know the weight of your truck and load.**  
Especially when using elevators, Know the capacity of the elevator you intend to use. Do not overload.
- ⚠ **This equipment must operate on level surface only.**

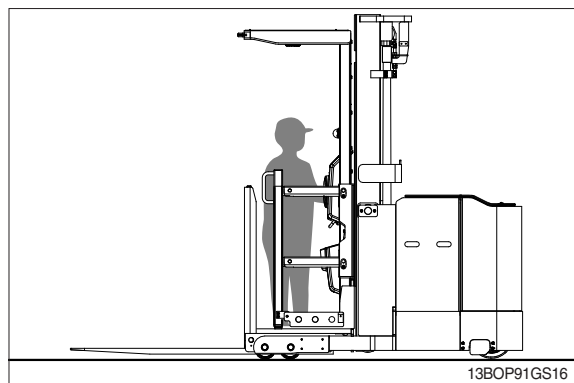


## 10. PARKING

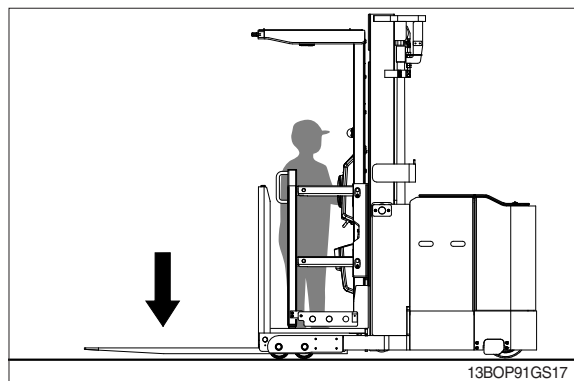
- 1) Never park on a grade.



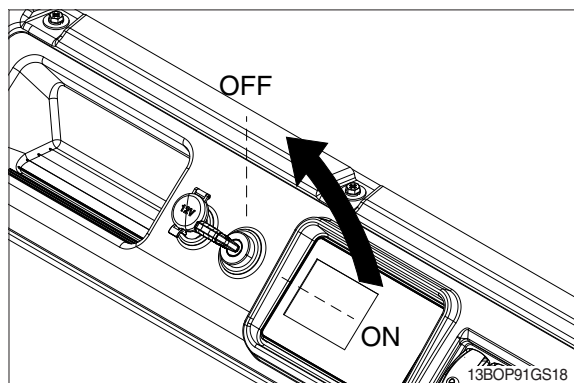
- 2) Always come to a complete stop before leaving truck. Be sure travel control is in NEUTRAL.



- 3) Lower forks fully to floor.



- 4) Turn key to OFF position.



## 11. LIFTING, JACKING AND BLOCKING

**▲ Lifting or jacking any large piece of equipment such as truck presents obvious hazards, it must be done with great care and forethought.**

### 1) SAFE PARKING

Before working on truck :

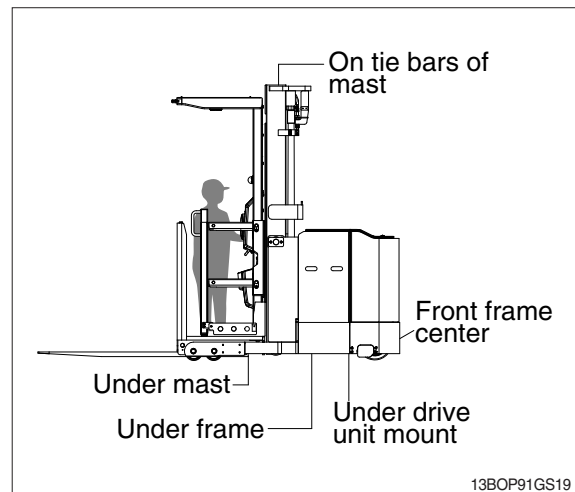
- (1) Park truck on a hard, level and solid surface, such as a concrete floor with no gaps or breaks.
- (2) Fully lower the platform or forks.
- (3) Put all controls in neutral. Turn key switch OFF and remove key.
- (4) Block the wheel.

**▲ Defective equipment can cause accidents. All tools and lifting equipment must be in good condition, meet the load capacity requirements and have OSHA labels when required. Tools with defects and have failures causing severe injury or death.**

### 2) LIFTING, BLOCKING AND JACKING POINTS

Use the following illustration to locate general lifting, blocking and jacking points on the truck. Read the procedures for raising, blocking or jacking specific components of the truck to make sure you understand the correct, safe procedures.

**▲ Do not attempt to lift the truck by the overhead guard or the counterweight. Severe injury may result and the truck can be damaged.**



### 3) RAISING TRUCK WITH A HOIST

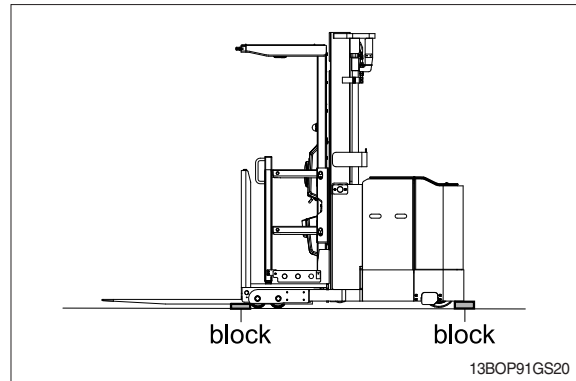
When suitable equipment is available, the front of the truck may be raised by means of a hoist, with wheel cradles placed under the wheels or blocking placed under the frame.

**▲ When lifting the front of the truck, watch truck for signs of lateral instability. It may tip sideways. You may have to support or guide the side of the truck or overhead guard to prevent tipping.**

- (1) Park truck safely as described in "Safe Parking". Block rear steer wheels.
- (2) Check trunnion bolts to make sure they are tightened to correct torque. Bolt torques must be 7.5~8.0 kgf-m (55~59 ft-lb).
- (3) To raise the front of the truck using the mast, spread two chains on the outer rail tiebar the mast.

**▲ Chain and hoist used to lift truck should be checked to make sure they are of safe lifting capacity. See the truck data plate for information.**

- (4) Slowly lift truck and lower drive wheels onto the cradles or place blocking under frame prop points.
- (5) When maintenance work is completed, lower the truck to the floor by reversing the lifting procedure. Check to be sure no tools or equipment are under the truck or wheels.



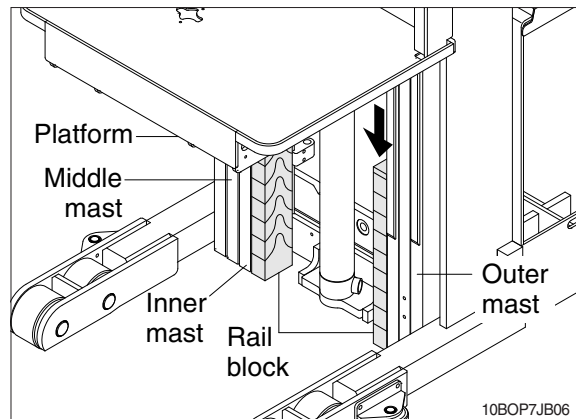
#### 4) BLOCKING THE MAST IN RAISED POSITION

This procedure is used to safely provide clearance for access from the front of truck to components on or near the drive wheels. Illustrations show mast with forks removal however, fork removal is not necessary.

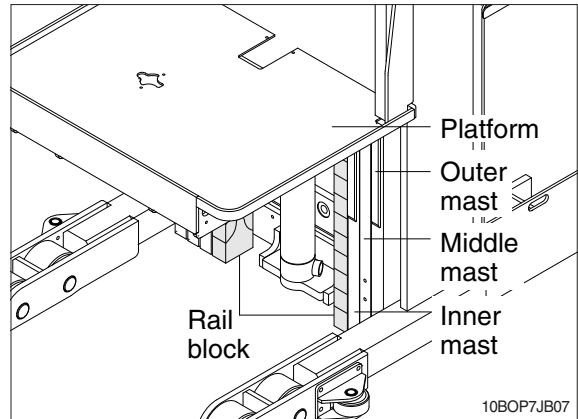
- (1) Park truck safely as described in "Safe Parking".
- (2) Put blocks in front of and behind drive wheels.
- (3) Put wooden support blocks conveniently near mast rails before raising the mast. Use two 1118 mm (44 in) hardwood blocks or equal, of about 305 mm (12 in) and 610 mm (24 in) length.

※ For standard masts, block may need length cut to suit. For triple stage masts the carriage may be blocked up, as shown.

- (4) Start truck and raise the mast along with platform.
- (5) Hold the taller block against inner rail and lower the mast until platform rests on block.



- (6) Hold the shorter block against the outer rail and lower the mast until inner rail rests on the block.
- (7) Reverse the procedure to remove blocking.



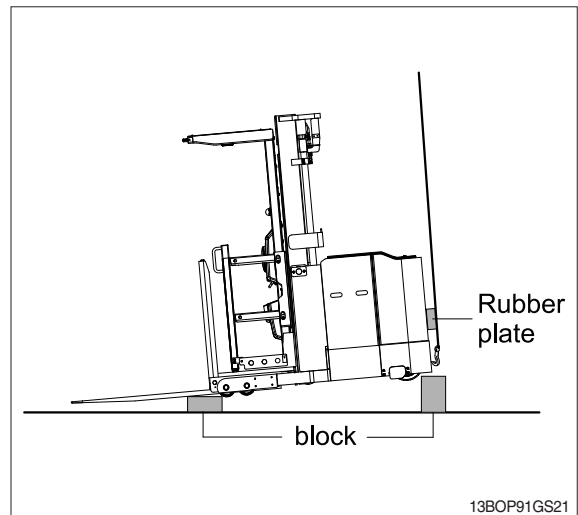
## 5) RAISING FRONT OF TRUCK

The truck may be raised at the front by lifting and blocking under the center of the frame member at the front frame.

Refer to truck data plate for truck weights.

- (1) Park truck safely as described in "Safe Parking". Put blocks at front and rear or load wheels.
- (2) Lifting up the truck at the frame center.
- (3) Lifting up the truck as high as necessary to perform the maintenance work.
- (4) Put blocks under the both sides of the truck, fully under the frame main side structure. Put the blocks in front of rear wheels for the best truck stability.
- (5) Put an equal amount of blocks under each side of the truck to provide a level working position.

Lower the truck onto the blocks and remove the hook.



- ▲ Before performing any maintenance work, check the truck for stable condition on the blocking.

#### 6) RAISING ENTIRE TRUCK (REFER TO PAGE 1-17)

Refer to truck data plate for truck weights.

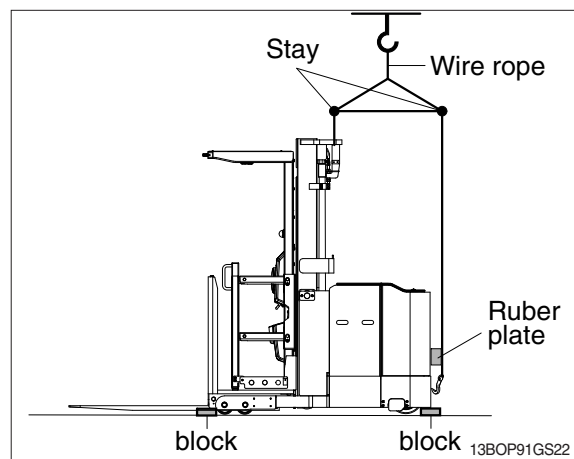
- (1) Park truck safely as described in "Safe Parking". Lower mast fully.
- (2) If necessary, drive truck onto boards to increase ground clearance.

- ▲ **LATERAL TIP OVER.** When lifting side of truck, be sure mast is lowered fully and do not raise one side of the truck more that about 50 mm (2 in) higher than the other, to avoid tipping truck over laterally.

**LONGITUDINAL TIP OVER.** If the mast is removed while the truck is blocked up, the truck will tip backwards due to the heavy frame. The back of the truck must be supported by blocking under the drive tire to prevent movement.

The reverse is also true. If the frame is removed while the truck is up on blocks, the weight of the mast will cause the truck to tip on the front blocks and forward.

- (3) Lift up the bottom of front frame near the center of the truck.
- (4) Carefully raise the truck one side at a time, only as high as necessary to do the maintenance work and more than a maximum of 150 mm (6 in) total.



- (5) Put blocks under the side frame at each side. Spread the blocks close to drive wheels for maximum stability.
- (6) Put the same size blocks under each side of the truck so it will be level.

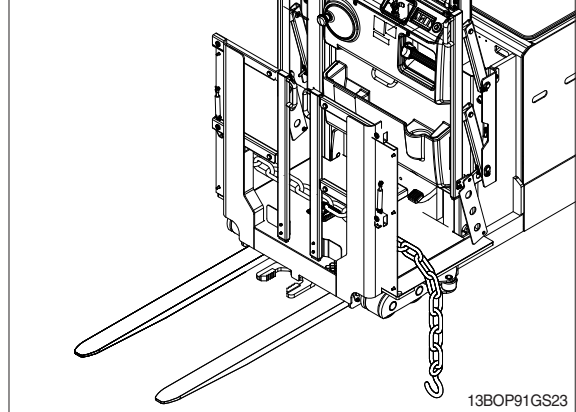
- ▲ Do not lift up under the outer covers which enclose the fuel and hydraulic tanks.

- (7) When maintenance work is completed, lower the entire truck to the floor by reversing the lifting procedure. Lower the truck one side at a time, while carefully removing the blocks. Check to be sure no tools or equipments are under the truck or wheels.

## 7) SHIPPING TIE-DOWN INSTRUCTIONS

### (1) Rear of truck

- ① With mast and platform installed
    - a. Lower the platform fully.
    - b. Put a tie down (e.g., chain) for each outside of the platform.
  - ② Without a mast and platform installed
    - a. Put a chain across the truck floor plate.
- ※ **Protect truck from chain damage by using covered chain or protective material under the chain at contact points.**



### (2) Front of truck

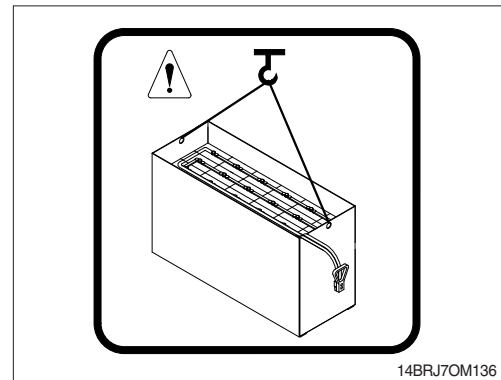
- ① Attach the tie down to pocket in bottom of front frame.



## 12. LOADING AND UNLOADING BY CRANE

- 1) Check the specification of when you are going to hoist the truck.

**⚠ Before loading the truck, battery must be removed. Refer to page 7-23 for a safe battery removal.**



- 2) Use long wire rope and stay to keep the distance with the machine as it should avoid touching with the truck body.
- 3) Put a rubber plate where the wire rope contact with the truck's body to prevent damage.
- 4) Place crane on the proper place.
- 5) Install the wire rope and stay like the illustration.

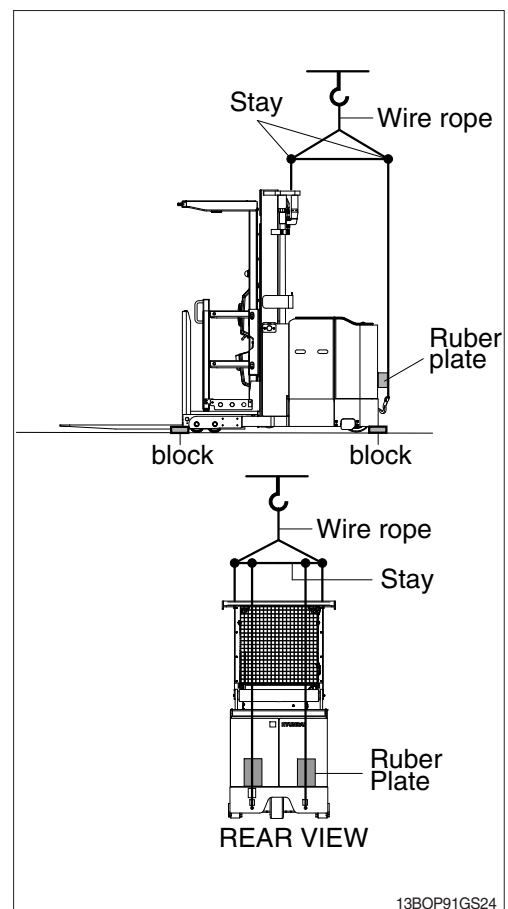
**⚠ Make sure wire rope is proper size.**

**⚠ The wrong hoisting method or installation of wire rope can cause damage to driver and truck.**

**⚠ Do not load abruptly.**

**⚠ Keep area clear of personnel.**

**⚠ Recommend to manufacture the stays separately as per lifting conditions.**



- ⚠ Do not install the wire to unsafe position such as forks, platform, head guard, counterweight lifting hole or towing pin, etc.. It can cause a serious damage to driver and truck.
- ⚠ If there is any problem to lift a truck, please contact your dealer.
- ⚠ Perform the lifting service with skilled service man.
- ⚠ When hanging the machine, bear in mind that only use appropriate lifting appliances which should be had sufficient capacity for lifting of the machine weight in order that it can avoid from unexpected accident.

