

OPERATOR'S MANUAL

EPS-30 POWERED DRIVE STRADDLE TRUCK



ACTUAL PRODUCT MAY NOT APPEAR EXACTLY AS SHOWN



WARNING

Do not operate or service this product unless you have read and fully understand the entire contents of this manual. Failure to do so may result in property damage, bodily injury or death.

BLUE GIANT[®]

ISSUE DATE: AUGUST 2, 2017 REV.1 (PART # 038-1058E)

TABLE OF CONTENTS

1.0	SAFETY PROCEDURES	3
2.0	OWNER'S PURCHASE RECORD	4
3.0	WARRANTY	4
4.0	EXCLUSION OF LIABILITY	5
5.0	FORWARD	5
6.0	SAFETY SYMBOLS	6
7.0	GENERAL DESCRIPTION	6
8.0	NAME PLATE AND WARNING DECALS	7
9.0	LOAD CAPACITY	10
10.0	BEFORE OPERATING	10
11.0	SAMPLE OF OPERATOR CHECK LIST	11
12.0	OPERATOR CHECK LIST	11
13.0	INSTRUMENTS AND CONTROLS	13
14.0	OPERATION	15
14.1	FORWARD AND REVERSE TRAVEL AND SPEED CONTROL	16
14.2	STEERING	16
14.3	STOPPING	16
14.5	PARKING	17
14.6	BATTERY CHARGING	17
14.7	LOAD HANDLING	17
14.8	MOVING A DISABLED TRUCK	18
15.0	OPERATING ILLUSTRATIONS	19
16.0	NOTICE - OBTAINING A PARTS AND SERVICE MANUAL	27

1.0 SAFETY PROCEDURES

1. Do not operate this truck unless you have been authorized and trained to do so, and have read all warning and instructions in Operator's Manual and on this truck.
2. Do not operate this truck until you have checked its condition. Give special attention to tires, horn, light, battery, controller, lift system (including forks or attachments, chains, cables and limit switches), brakes, steering mechanism, guards and safety devices.
3. Operate truck only from designated operating position.
4. Never place any part of your body into the mast structure or between the mast and the truck. Do not carry passengers. Keep feet clear of truck and always wear foot protection.
5. Observe applicable traffic regulations. Yield right of way to pedestrians. Slow down and sound horn at cross aisles and wherever vision is obstructed.
6. Start, stop, travel, steer and brake smoothly. Slow down for turns and on uneven or slippery surfaces that could cause truck to slide or overturn. Use special care when traveling without load as the rash of overturn may be greater.
7. Travel with lifting mechanism as low as possible. Always look in direction of travel. See a clear view, and when load interferes with visibility, travel with load trailing.
8. Use special care when operating on ramps - travel slowly, and do not angle or turn. Travel with lifting mechanism downhill.
9. Do not overload truck. Check nameplate for capacity and load center information.
10. When using forks, space forks as far apart as load will permit. Before lifting, be sure load is centered, forks are completely under load, and load is as far back as possible against load backrest.
11. Do not handle unstable or loosely stacked loads. Use special care when handling long, high or wide loads, to avoid losing the load, striking bystanders, or tipping the truck.
12. Do not handle loads which are higher than the load backrest or load backrest extension unless load is secured so that no part of it could fall backward.
13. Elevate forks or other lifting mechanism only to pick up or stack a load. Watch out for obstructions, especially overhead.
14. Do not lift or transport personnel.
15. Do not allow anyone to stand or pass under load or lifting mechanism.
16. When leaving truck, neutralize travel control, full lower lifting mechanism and set brake. The leaving truck unattended, also shut off power.

2.0 OWNER’S PURCHASE RECORD

OWNER’S PURCHASE RECORD Please record information for future inquiries and to validate warranty.	
Dealer:	Date in Service:
	Number of Units:
Owner’s Name:	Order Number:
Serial Number:	Year of Construction:

3.0 WARRANTY

The guarantee includes material and assembly defects on parts which prove to be incorrect or inadequate for normal use when tested by the manufacturer and which are returned to the manufacturer free of charge within the guaranteed period of 24 months.

The guarantee expires if inappropriate or unadvised repair is undertaken by the user.

Blue Giant offers a full line of dock levelers, dock safety equipment, accessories, ergonomic and scissor lift equipment, and industrial trucks. Concurrent with our continuing product improvement program, specifications are subject to change without notice. Please contact Blue Giant for latest information. Some features illustrated may be optional in certain market areas.

To validate warranty on recently purchased equipment, please complete and submit your information with our online Warranty Registration at www.bluegiant.com.

For more information about Blue Giant Warranty Support, please contact your local Blue Giant Equipment dealer, representative or authorized partner near you. You may also visit www.bluegiant.com or phone 1.905.457.3900.

* Note that failure to validate warranty at the time of receipt can seriously affect the outcome of any claim.

4.0 EXCLUSION OF LIABILITY

The manufacturer assumes no liability for damage or injury to persons or property which has occurred as a result of defects or faults in the hand pallet trucks delivered or due to incorrect use. The manufacturer also assumes no liability for lost profits, operating down times, or similar indirect losses which the buyer has incurred. Damage to third parties, irrespective of its nature, is not subject to compensation.

The operating instructions are not subject to notification of amendment. The descriptions and illustrations included in our operating instructions and replacement parts list are not binding. In the interests of further development, we reserve the right to make any changes at any time to the modules, components and accessories which we deem to be expedient, or for technical reasons, while retaining the essential features of the models described here.

5.0 FORWARD

As a lift truck operator, you are responsible for a machine that is useful, powerful, and can be hazardous if not operated as described. Your Blue Giant truck may weigh more than some cars, depending on the model. Observing and practicing the safety warnings in this manual cannot be overemphasized. Just knowing the warnings, however, is no substitute for common sense. Focusing on the task at hand, in almost all cases, prevent accidents. Think of the truck as your own. In this way you will learn its capabilities and limitations.

This manual is intended to remain with the truck at all times as a handy reference guide to operation. Detailed maintenance procedures are found in the parts and service manual for the specific truck model, and are to be performed only by a qualified technician. For further information on obtaining a complete parts and service manual, see **page 30** of this manual.

The operator who knows his truck will learn to spot problems as they develop. This is accomplished by performing the Daily Checks and reporting any problems to the designated authority.

6.0 SAFETY SYMBOLS

WARNING and **CAUTION** are both signal words intended to alert the viewer to the existence and relative degree of a hazard. They are both preceded by a safety alert symbol consisting of an exclamation mark enclosed by a triangle.

 **WARNING**

A warning indicates a hazard which could result in injury or death if proper precautions are not taken.

 **CAUTION**

A caution indicates a reminder of routine safety practices.



A prohibition slash (circle with diagonal slash through it) indicates a procedure or action that should not be performed under any circumstances, as both personal injury and / or damage to equipment will result.

7.0 GENERAL DESCRIPTION

The Blue Giant StraddleTrucks utilize the straddle leg configuration, which normally straddles the load.

Control for steering, braking, forward and reverse travel, horn and speed control are all located on the control handle. All trucks feature an automatic high speed cut-off circuit which locks out high speed when the forks are elevated.

Trucks in this series may vary in load capacity, battery arrangement, instrumentation and lift / lower controls, depending on model and options. The forks may be rigid or adjustable. One model has a reach and tilt mechanism which extends the forks toward the load, then retracts and tilts back the forks for transporting the load.

8.0 NAME PLATE AND WARNING DECALS

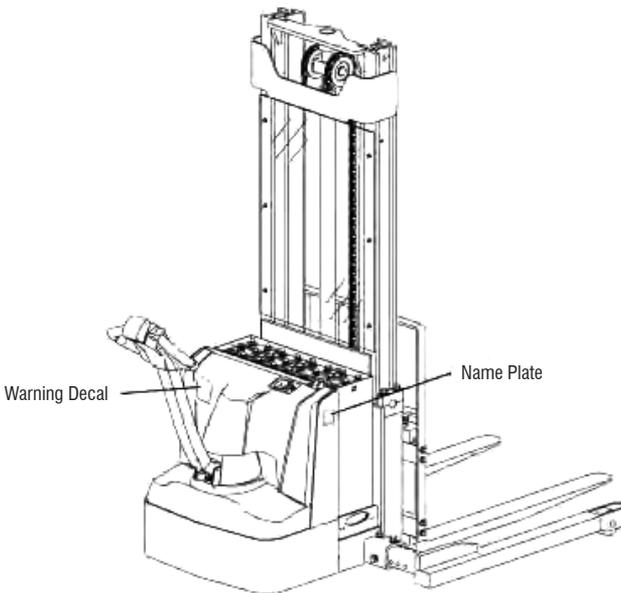
Warning decal locations may vary between models, but normally they are near the steering arm within sight of the operator. The name plate is mounted on the truck frame or mast. See illustration on next pages.

If the name plate or warning decal are lost or damaged they should be replaced immediately. Have your supervisor or the designated authority contact Blue Giant Authorized Dealer for replacement.

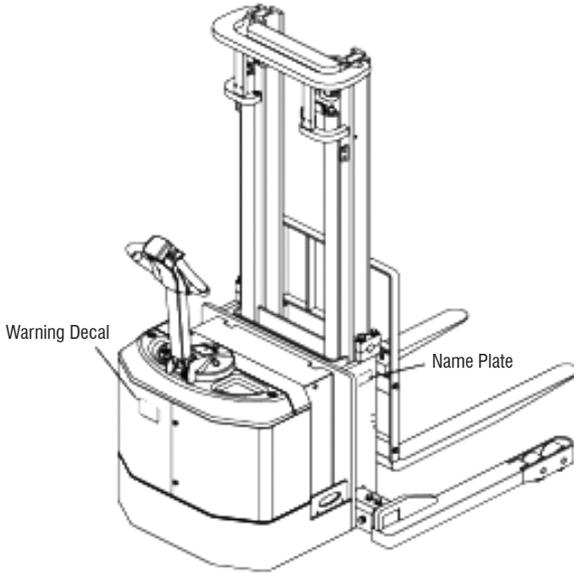
The name plate shows the model number, serial number, and truck type. Battery type, with voltage and minimum weight, is shown along with information on the load capacity and load center.

The warning decal contains warnings which also appear, with illustrations, in the Operation section of this manual.

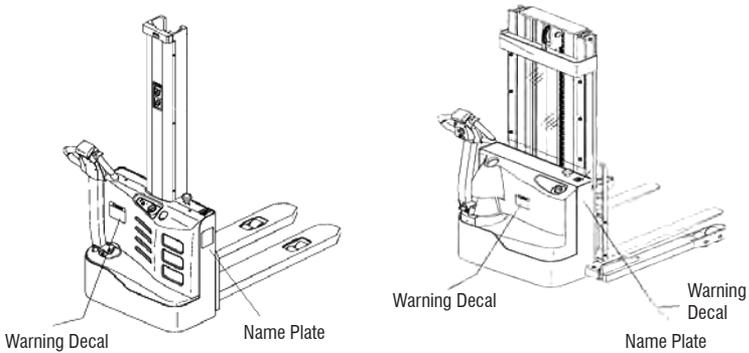
BGS25 NAME PLATE AND WARNING DECAL LOCATIONS - TYPICAL



BGS30 / BGS40 NAME PLATE AND WARNING DECAL LOCATIONS - TYPICAL



EPS-22 / EPS-30 NAME PLATE AND WARNING DECAL LOCATIONS - TYPICAL



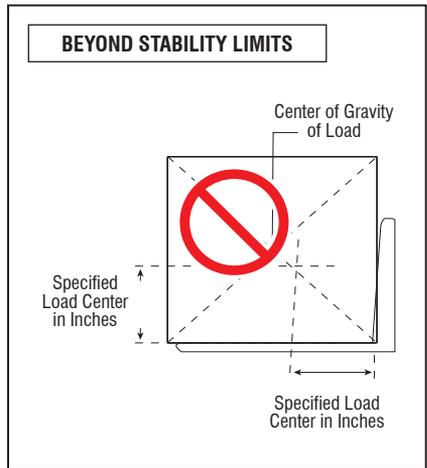
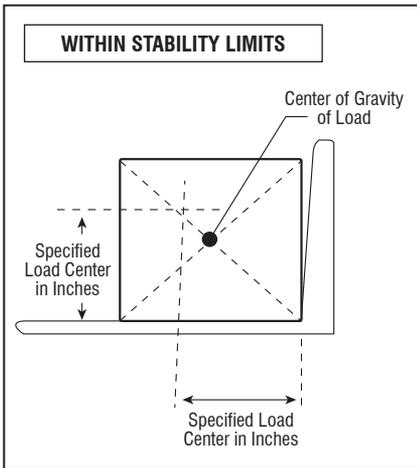
 **WARNING**

This truck is equipped with a battery. Read and heed the following warning plus any other warnings located near or on the battery.

<p>BATTERY HAZARD</p> 	<p> DANGER</p> <p>EXPLOSIVE / POISON / CAUSTIC NO SPARKS, FLAMES, SMOKING</p> <p>BATTERY ACID CAN CAUSE BLINDNESS AND SEVERE BURNS</p> <p>SHIELD EYES, AVOID SKIN CONTACT IF SPLASHED FLUSH IMMEDIATELY WITH WATER, GET MEDICAL HELP FAST</p> <ul style="list-style-type: none">• Do not service battery while on charge.• Do not connect or disconnect battery from charger while charger is on.• Only qualified and experienced personnel should perform maintenance and repair on batteries.• Use caution while servicing or removing battery. <p>REFER TO BATTERY SAFETY SHEET</p>
--	---

9.0 LOAD CAPACITY

The further the load center is from the backrest, the lower the load capacity. The load center must also be no higher than that specified above the lifting surface (top side of forks). For example, a load capacity of 3,000 pounds with a load center of 24 inches means that the truck can be used to lift 3,000 pounds only when the load's center of gravity is no more than 24 inches from the face of the forks or 24 inches above the top side of the forks. Note that a truck undergoing speed changes is less stable than a standing truck. If you are not sure that the truck can lift a certain load, consult your supervisor or the designated authority.



10.0 BEFORE OPERATING

The table on page 11 covers important inspection points on trucks which should be checked prior to operation. Depending on use, some trucks may require additional checks. The illustration below shows a sample format for an Operator Checklist, which can be modified as necessary to fit your operation.

 **WARNING**

Periodic maintenance of this truck by a qualified service technician is required.

 **WARNING**

A qualified service technician should check the truck monthly for proper lubrication, proper fluid levels, brake maintenance, motor maintenance and other areas specified in the parts and service manual maintenance section.

 **WARNING**

If the truck is found to be unsafe and in need of repair, or contributes to an unsafe condition, report it immediately to the designated authority. Do not operate it until it has been restored to a safe operating condition. Do not make any unauthorized repairs or adjustments. All service must be performed by a qualified service technician.

11.0 SAMPLE OF OPERATOR CHECK LIST

BLUE GIANT[®]

**Stacker
Daily Operator Check List**

DATE: _____ OPERATOR: _____

VEHICLE NUMBER: _____ MODEL NUMBER: _____

DEPARTMENT: _____ SHIFT: _____

HOUR METER READING - DRIVE: _____ HOIST: _____

CHECK	O.K. ✓	NEED MAINTENANCE
Tires		
Load Wheels		
Horn		
Lift / Lower Control		
Attachment Operation		
Forward and Reverse Controls		
Steering		
Electrical Brakes		
Hydraulic Leaks, Cylinders, Valves, Hoses, etc.		

July 17, 2017

12.0 OPERATOR CHECK LIST

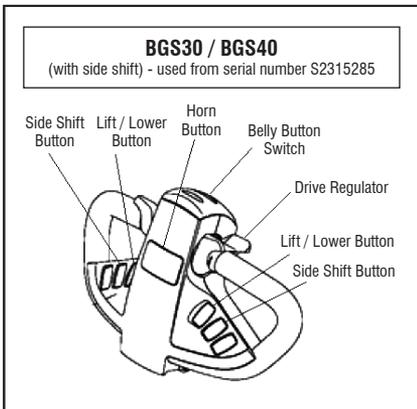
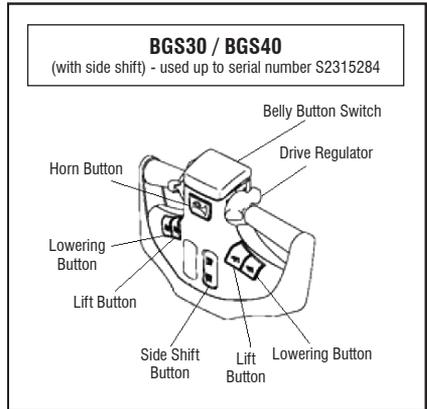
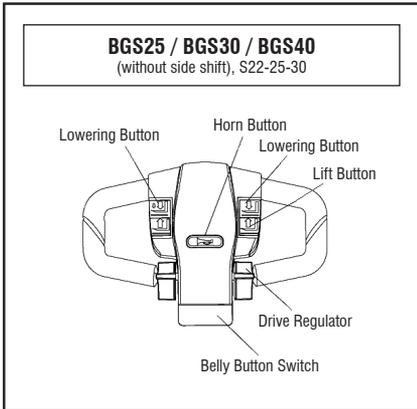
ITEM	DESCRIPTION
Transmission and Hydraulic Systems	Check for signs of fluid leakage.
Forks	Check for cracks and damage and that they are properly secured.
Chains, Cables and Hoses	Check that they are in place, properly secured and not damaged.
Guards and Load Backrest	Check that safety guards are in place, properly secured and not damaged.
Safety Signs	Check that warning labels, nameplate, etc., are in good condition and legible.
Horn	Check that horn sounds when operated.
Steering	Check for binding or looseness in steering arm when steering.
Travel Controls	Check that speed controls on control handle operate in all speed ranges in forward and reverse and that belly button switch functions.
Wheels	Check drive wheel for cracks or damage. Move truck to check load wheels and casters for freedom of rotation.
Hydraulic Controls	Check operation of lift and lower to their maximum positions.
Brakes	Check that brakes actuate when steering arm is raised to upright position, and when lowered to horizontal position. Check that dynamic brake (if so equipped - not available on newer trucks) actuates when dynamic brake pushbutton on control handle is pressed.
Deadman / Parking Brake	Check that steering arm raises to upright position when released and brake applies.
Battery Disconnect	Check that battery can be disconnected and reconnected. Check for connector damage.
High Speed Limit Switch	On the EPS-22 check that the emergency power disconnect is functioning properly.

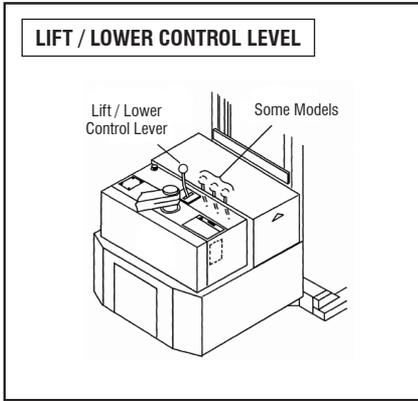
13.0 INSTRUMENTS AND CONTROLS - BGS25 / 30 / 40, EPS-22 / 30

The steering arm and control handle provide controls for steering, forward and reverse speed control, braking, horn, and raising and lowering the forks. Control handles on all models have a “belly button” reversing switch which reverses the direction of the truck upon contact with the operator.

Detailed operating instructions are in the Operation section of this manual.

A battery disconnect is mounted near the steering arm. Pulling the gray disconnect on BGS trucks or pushing the red disconnect plunger on EPS trucks removes all power from truck circuits in the event of an emergency.

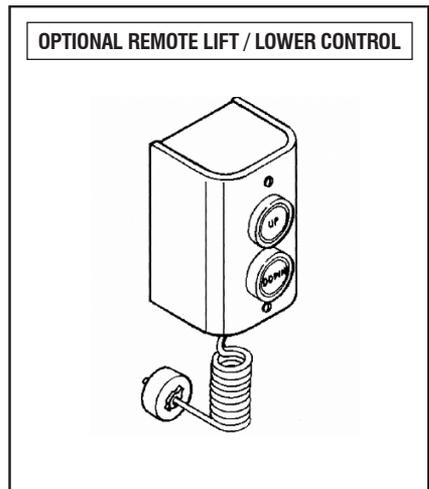




Optional Features

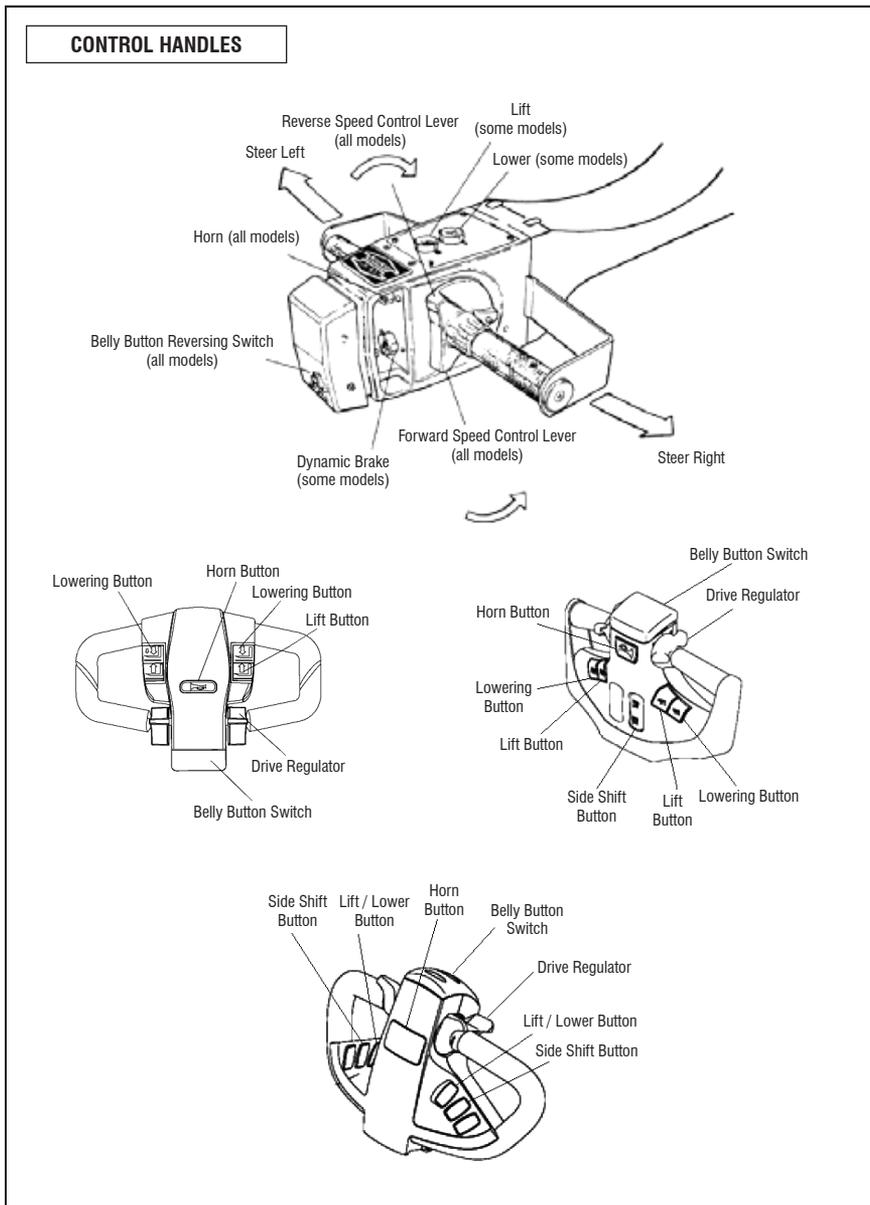
The optional remote lift / lower control (if equipped) allows the operator to raise and lower the forks while standing away from the control handle.

Other options are the battery capacity indicator, hourmeter and keyswitch which mount on the panel near the control handle. The battery capacity indicator monitors the battery discharge rate to indicate the remaining battery capacity. The hour meter records the accumulated hours that electrical energy is being drawn from the battery to run the pump and drive motors. The keyswitch provides added security to the truck, preventing unauthorized personnel from operating the machine.



14.0 OPERATION

14.1 FORWARD AND REVERSE TRAVEL AND SPEED CONTROL



All directional and speed controls are located on the control handle.

Forward and reverse are controlled by rotating the speed control lever as shown. The lever is spring loaded to return to neutral when released. Further rotation in either direction will progress the truck from slow to maximum travel speed.

To change directions or to stop the truck, rotate the speed control lever in the opposite direction. The truck will come to a stop and then, unless the controls are returned to the center neutral position, accelerate in the opposite direction.

14.2 STEERING

Moving the control handle (which connects to the steering arm) right or left will turn the truck right or left. When maneuvering around corners, make square turns and be sure there is adequate clearance.

14.3 STOPPING

Stop the truck as gradually as possible. Unnecessary rapid stopping could be hazardous. Load could become unstable.

You can use plugging to stop the truck, this electrical braking function consists of rotating the speed control lever in the opposite direction of travel and then releasing it when the truck stops. Plugging is a convenient way to stop the truck during normal operation. If the control is not released, the truck will accelerate in the opposite direction.

You can also stop the truck's movement (forward or reverse) by raising the control handle to the up position or push the control handle all the way down. In either positions, the travel controls will deactivate and the brake will apply.

To release the brake, just move the control handle to the operating position.

NOTE: The steering arm gas spring automatically raises the steering arm to the upright position when the steering arm is released.

CAUTION

If the control handle does not raise immediately to the vertical position when released, the truck should be placed **“OUT OF SERVICE”** until it can be inspected by a qualified repair technician.

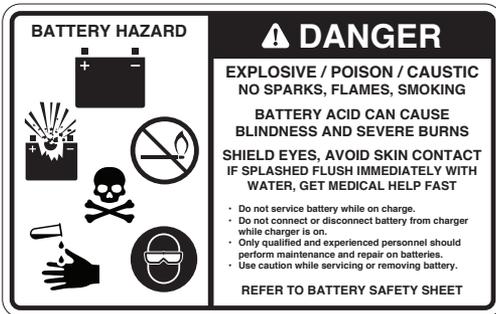
14.5 PARKING

When parking the truck, do not obstruct traffic lanes or aisles.

1. Park the truck in its designated parking area.
2. Raise the steering arm until vertical to apply the parking brake.
3. Fully lower forks and make sure the lift carriage is all the way down.
4. Turn keyswitch to off position. Remove key for added security.
5. Pull the gray battery disconnect or push red disconnect plunger on EPS-22 trucks.

14.6 BATTERY CHARGING

Refer to DOC 245 for battery safety and maintenance.



NOTE: Battery charging instructions are contained in the service manual.

14.7 LOAD HANDLING

WARNING

Handle only loads arranged for stability and always use caution. Raise and lower the load smoothly to prevent the load from falling.

WARNING

Always be sure the load and load center are within the capacity of the truck. If in doubt check the nameplate.

14.7 LOAD HANDLING (continued)

1. Approach the load slowly.
2. Stop the truck when the forks are just in front of the load.
3. Adjust the forks to the maximum practical width to support the load to be lifted. If the truck has rigid forks, position the truck so the forks will give maximum support to the load.
4. Raise or lower the forks until they are properly aligned with the pallet openings.
5. Move the truck slowly into position so that the forks are centered about the load.
6. Make sure the load is against the backrest and then raise the forks until the pallet clears the rack.
7. Move the truck away from the rack until the load clears the rack and then lower the forks.
8. Always operate the truck with the forks in the DOWN position and slightly raised when operating on a grade.
9. Lead the truck by the control handle with the load trailing except when in confined areas. Ramps should always be traveled with operator uphill of truck.
10. Always look in the direction of travel. Move slowly and check clearances when approaching obstructions.
11. Do not make sudden starts and stops. Operate truck smoothly and gradually.
12. Travel slowly and squarely around corners. Remember that the trailing load wheels do not follow the turn path of the drive wheel; instead, they tend to cut the corner.
13. Line up the truck with the unloading area.
14. Stop the truck and raise or lower the forks until the pallet is in position with the unloading area.
15. Check the load alignment with surrounding objects.
16. Be careful not to damage or move adjacent loads and objects.
17. Slowly move into position.
18. Lower the forks until the load is securely settled on its own. Be sure there is no downward force on the forks on the rack or floor.
19. Carefully move the truck away from the load watching to make sure the load doesn't move or shift. If the load does move, return the truck to the load and reset.

NOTE: Make sure when working in a rack area, that you do not disturb another load while placing yours in the rack. This may cause a dangerous situation for other operators or pedestrians working in this area later.

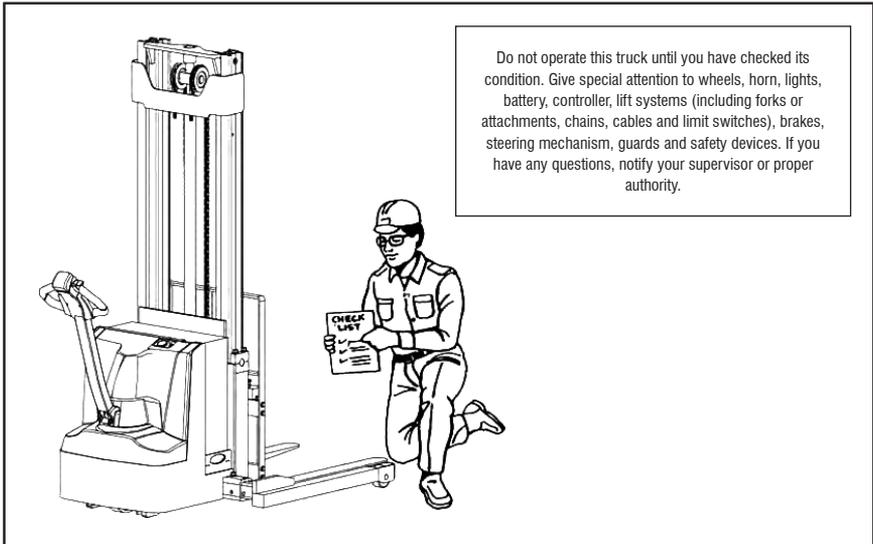
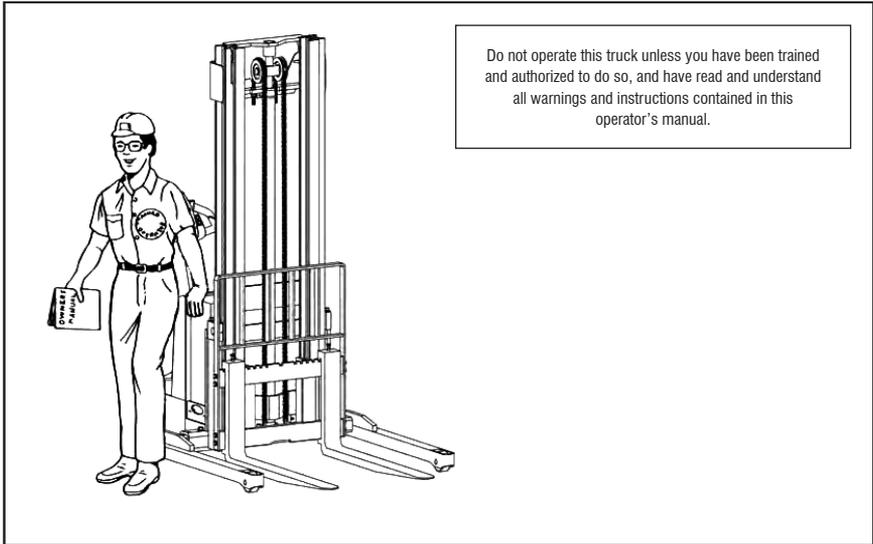
20. If forks are elevated, lower to travel position.

13.8 MOVING A DISABLED TRUCK

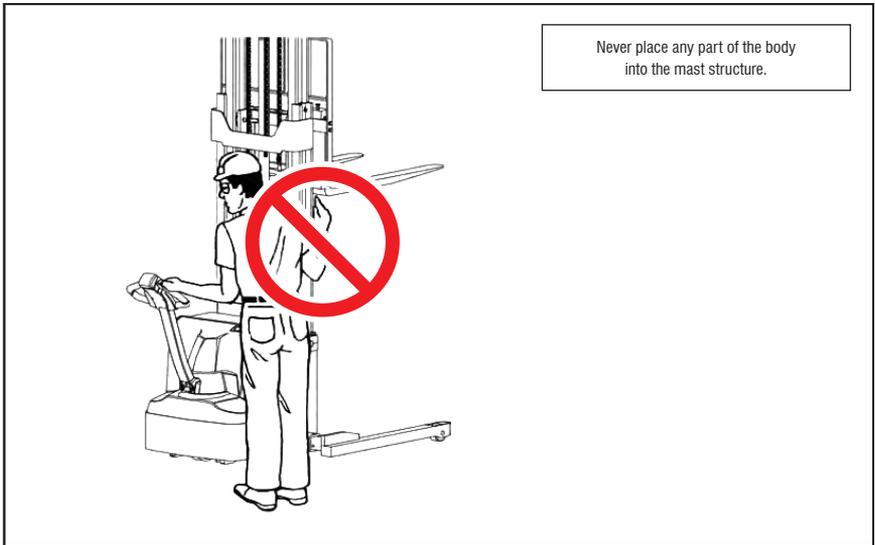
Do not attempt to move a disabled truck; notify your supervisor or proper authority.

15.0 OPERATING ILLUSTRATIONS

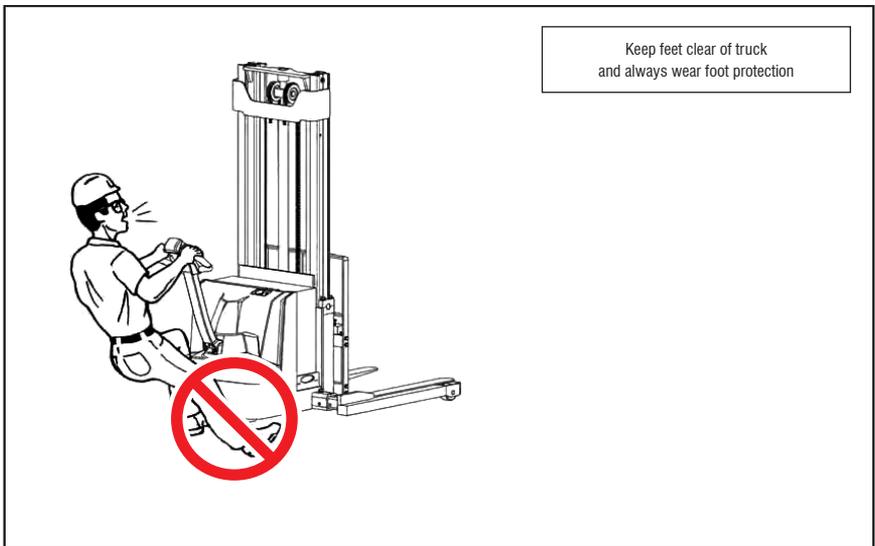
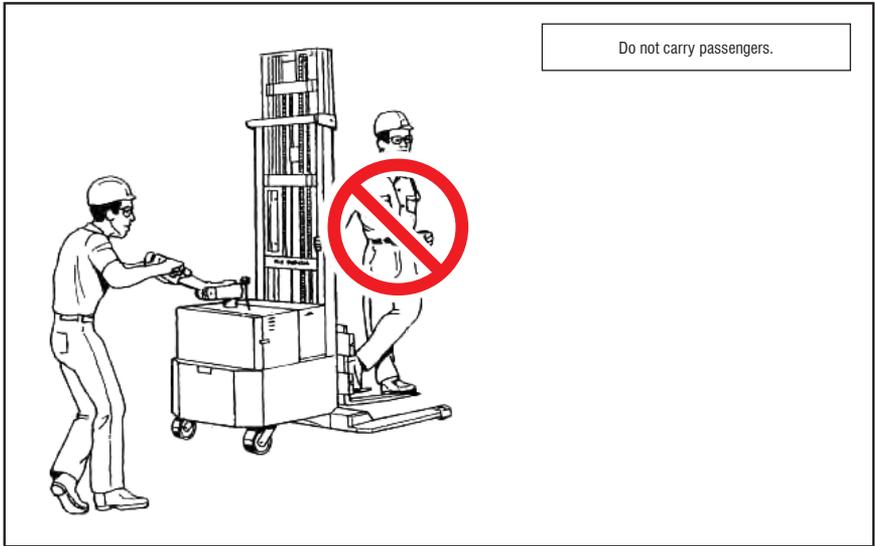
The following operating instructions appear on the truck warning decal, which is located near the steering arm.



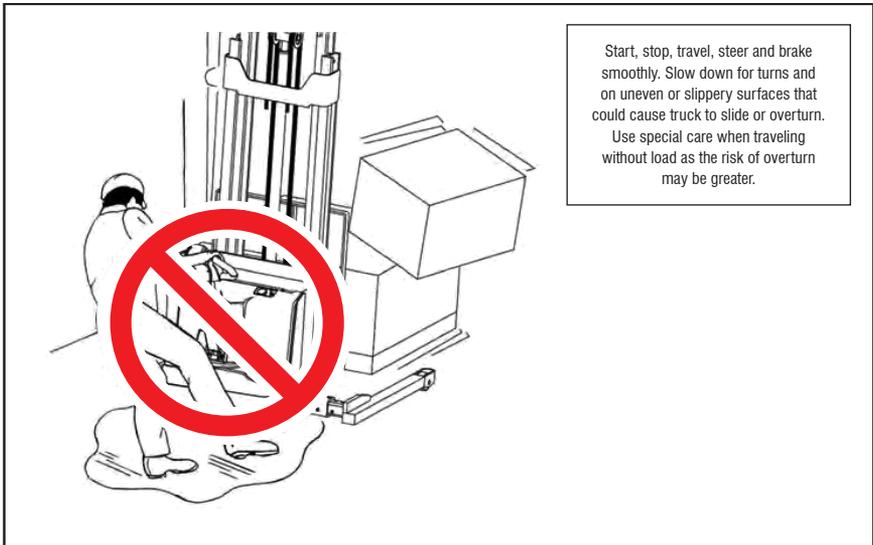
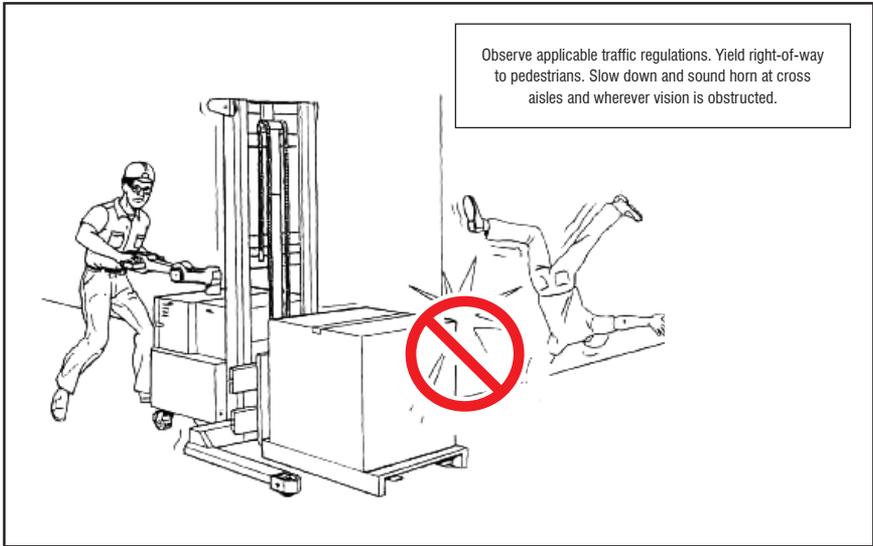
15.0 OPERATING ILLUSTRATIONS (continued)



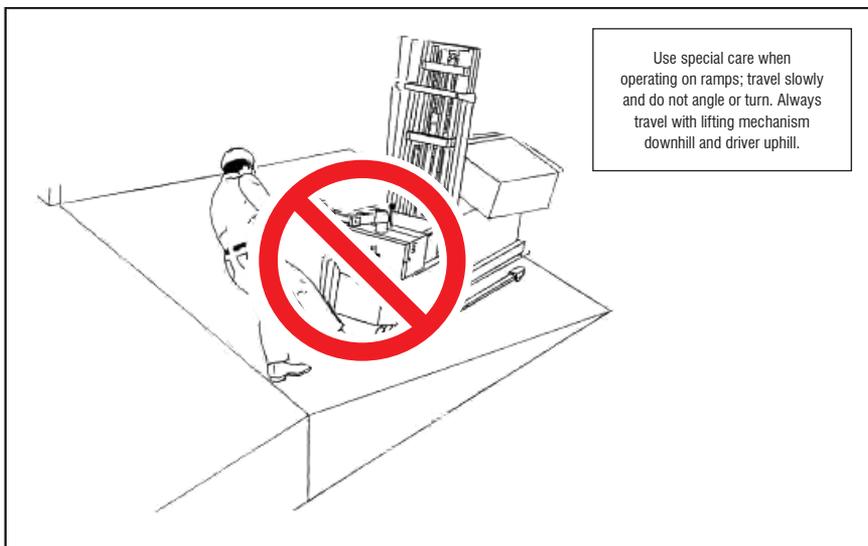
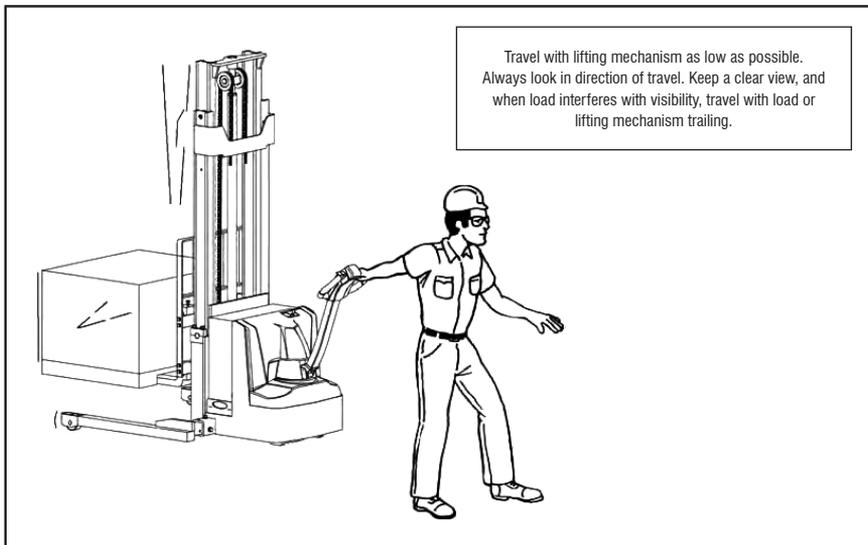
15.0 OPERATING ILLUSTRATIONS (continued)



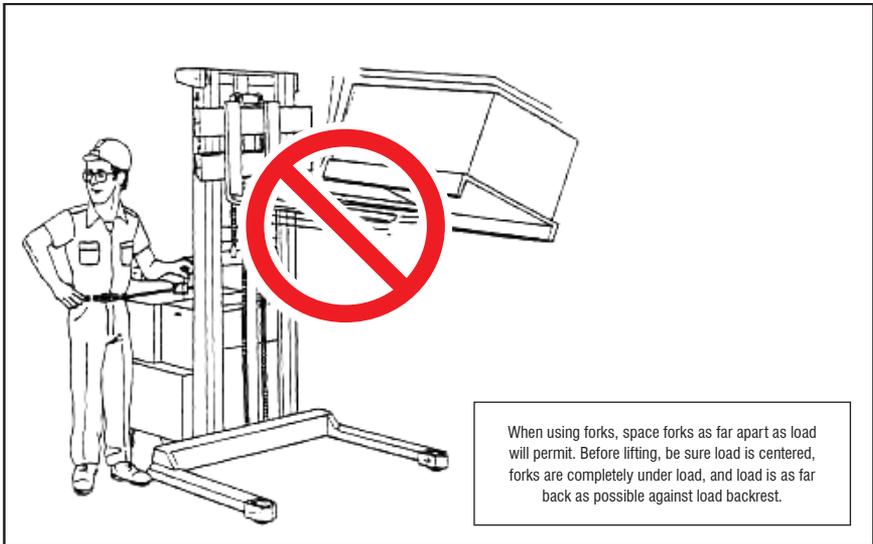
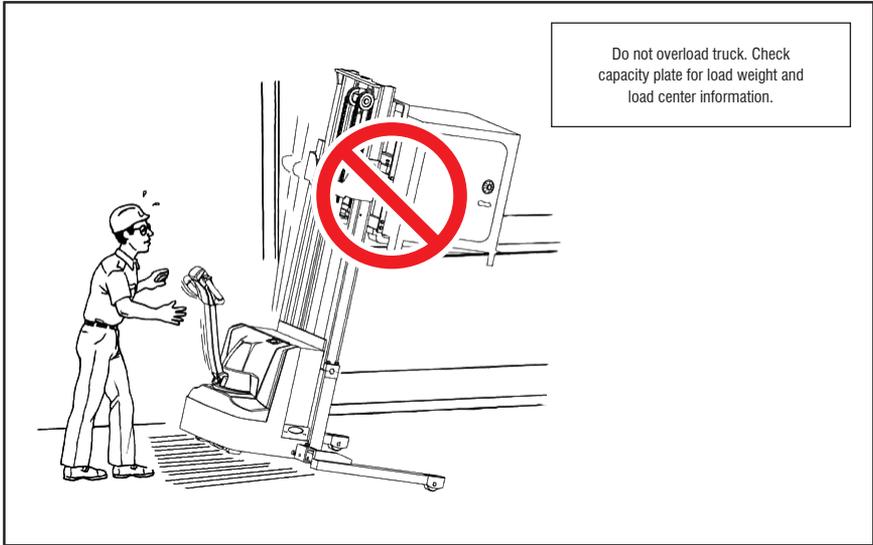
15.0 OPERATING ILLUSTRATIONS (continued)



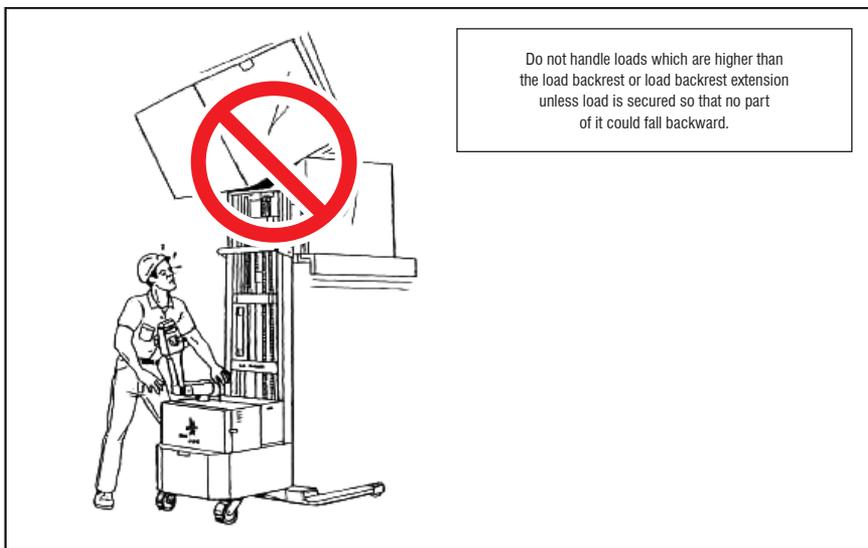
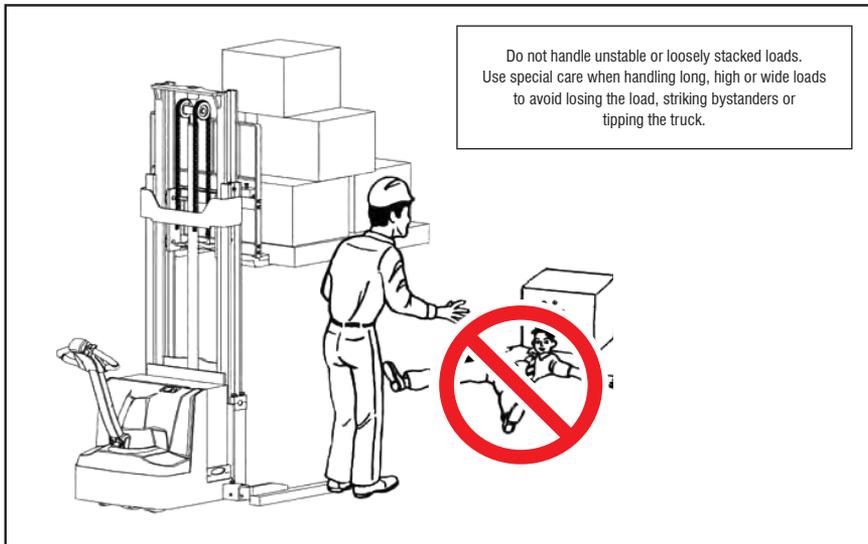
15.0 OPERATING ILLUSTRATIONS (continued)



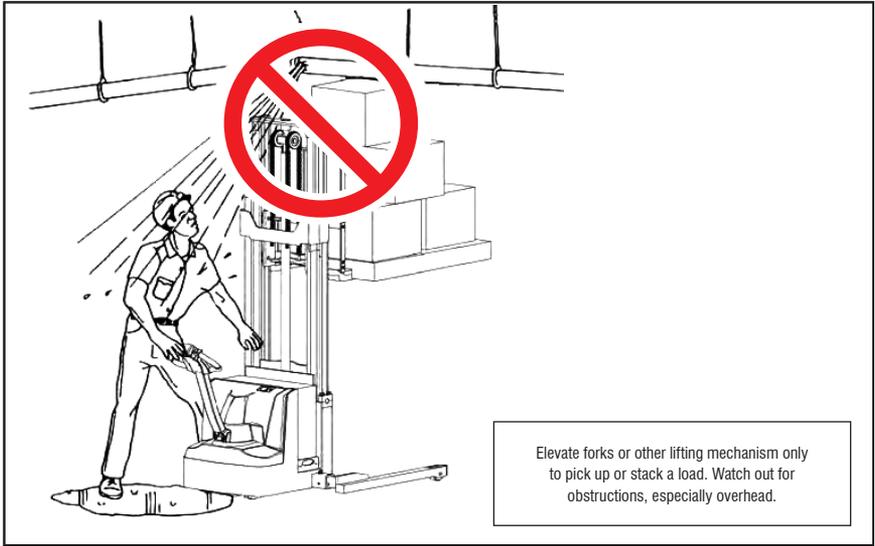
15.0 OPERATING ILLUSTRATIONS (continued)



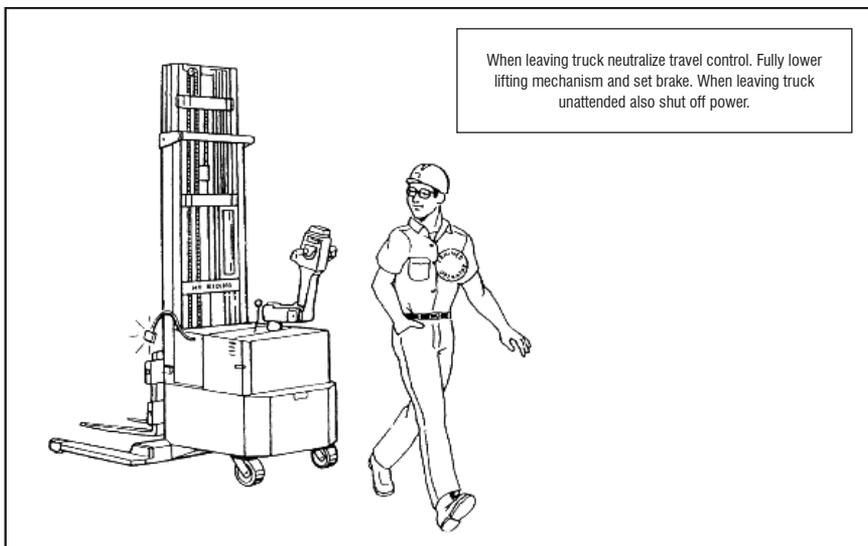
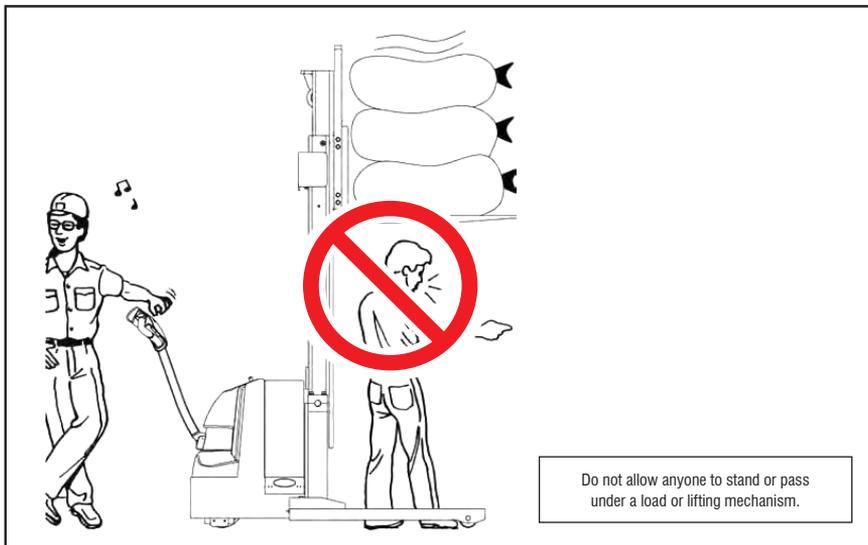
15.0 OPERATING ILLUSTRATIONS (continued)



15.0 OPERATING ILLUSTRATIONS (continued)



15.0 OPERATING ILLUSTRATIONS (continued)



16.0 NOTICE - OBTAINING A PARTS AND SERVICE MANUAL

A complete parts and service manual covering this truck is available from Blue Giant. To order, obtain the serial number of your truck and contact your Blue Giant Authorized Dealer.

BLUE GIANT[®]
BLUE GIANT EQUIPMENT CORPORATION

Corporate 410 Admiral Blvd
Mississauga ON L5T 2N6
t 905.457.3900 f 905.457.2313

USA 6350 Burnt Poplar Rd
Greensboro, NC 27409
www.bluegiant.com