

OPERATOR'S MANUAL

BGL-33 WALKIE COUNTERBALANCED STACKER



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®

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WARNING

DO NOT OPERATE THIS TRUCK UNLESS YOU HAVE BEEN TRAINED AND AUTHORIZED TO DO SO, AND HAVE READ ALL WARNINGS AND INSTRUCTIONS IN OPERATORS MANUAL AND ON THIS TRUCK.

DO NOT OPERATE THIS TRUCK UNTIL YOU HAVE CHECKED ITS CONDITION. GIVE SPECIAL ATTENTION TO TIRES, HORN, LIGHTS, BATTERY, CONTROLLER, LIFT AND TILT SYSTEMS (INCLUDING FORKS OR ATTACHMENTS, CHAINS, CABLES AND LIMIT SWITCHES), BRAKES, STEERING MECHANISM, GUARDS AND SAFETY DEVICES.

OPERATE TRUCK ONLY FROM OPERATING POSITION. 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.

OBSERVE APPLICABLE TRAFFIC REGULATIONS. YIELD RIGHT OF WAY TO PEDESTRIANS. SLOW DOWN AND SOUND HORN AT CROSS AISLES AND WHEREVER VISION IS OBSTRUCTED.

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 RISK OF OVERTURN MAY BE GREATER.

TRAVEL WITH LIFTING MECHANISM AS LOW AS POSSIBLE. ALWAYS LOOK IN DIRECTION OF TRAVEL. KEEP A CLEAR VIEW, AND WHEN LOAD INTERFERES WITH VISIBILITY TRAVEL WITH LOAD OR LIFTING MECHANISM TRAILING.

USE SPECIAL CARE WHEN OPERATING ON RAMPS - TRAVEL SLOWLY, AND DO NOT ANGLE OR TURN. TRAVEL WITH LIFTING MECHANISM DOWNHILL.

DO NOT OVERLOAD TRUCK. CHECK CAPACITY PLATE FOR LOAD WEIGHT AND LOAD CENTER INFORMATION.

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.

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.

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.

ELEVATE FORKS OR OTHER LIFTING MECHANISM ONLY TO PICK UP OR STACK A LOAD. LIST AND LOWER WITH MAST VERTICAL OR TILTED SLIGHTLY BACK - NEVER FORWARD. WATCH OUT FOR OBSTRUCTIONS, ESPECIALLY OVERHEAD.

OPERATE TILTING MECHANISM SLOWLY AND SMOOTHLY. DO NOT TILT FORWARD WHEN ELEVATED EXCEPT TO PICK UP OR DEPOSIT A LOAD. WHEN STACKING, USE ONLY ENOUGH BACKWARD TILT TO STABILIZE LOAD.

DO NOT ALLOW ANYONE TO STAND OR PASS UNDER LOAD OR LIFTING MECHANISM.

WHEN LEAVING TRUCK, NEUTRALIZE TRAVEL CONTROL. FULLY LOWER LIFTING MECHANISM AND SET BRAKE WHEN LEAVING TRUCK UNATTENDED. ALSO SHUT OFF POWER.

FOREWORD

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**. Using your common sense will, 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 15](#) 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.

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SAFETY SYMBOLS

WARNING and **CAUTIONS** 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.



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

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.



GENERAL DESCRIPTION

Trucks in the Blue Giant Counterbalance series utilize a weighted frame to counterbalance the load. Some models are equipped with tilt cylinders used to tilt the mast back during transport.

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.

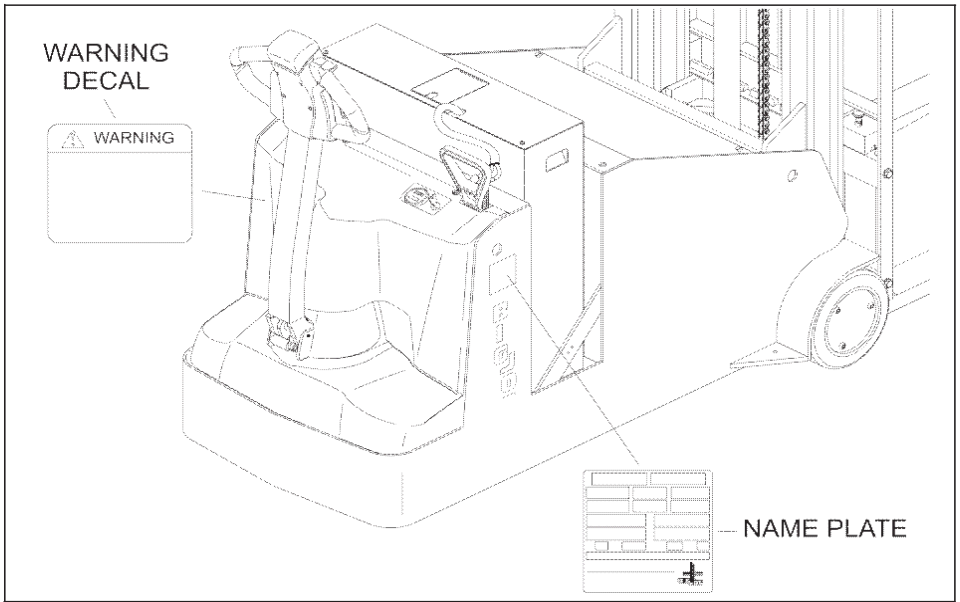
Trucks in this series may vary in load capacity, battery arrangement, instrumentation and lift/lower controls, depending on model and options.

NAME PLATE AND WARNING DECAL

Name plate and warning decal locations may vary between models, but they are always near the steering arm within sight of the operator.

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; truck type; battery type, voltage and minimum weight; and, maximum lift height. It also contains information on the load capacity and load center. The warning decal contains warnings which also appear, with illustrations, in the Operating Precautions section of this manual.



Name Plate and Warning Decal Locations - Typical



WARNING:

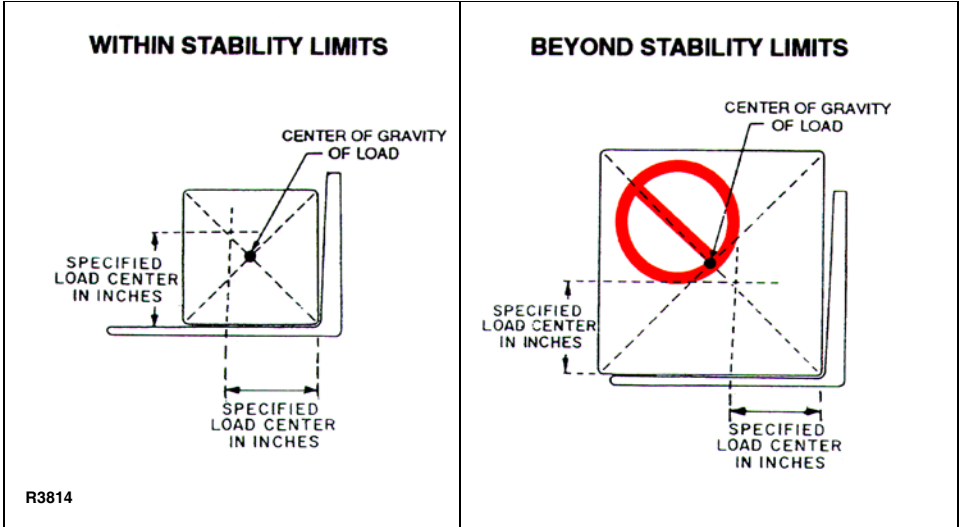
This truck is equipped with a battery. Read and heed the warning decal located near the battery. An example is shown here:

<p>BATTERY HAZARD</p>	<p>! DANGER</p> <p>EXPLOSIVE/POISON/CAUSTIC NO SPARKS, FLAMES, SMOKING BATTERY ACID can cause blindness and severe burns SHIELD EYES, AVOID SKIN CONTACT IF SPLASHED flush immediately with water, get medical help fast.</p> <p>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. (Refer to Battery Safety Sheet).</p>
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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 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.



Load Center

BEFORE OPERATION

The table on [page 6](#) 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 a Operator Checklist, which can be modified as necessary to fit your operation.



WARNING:

Periodic maintenance of this truck by a **QUALIFIED TECHNICIAN** is required.



WARNING:

A **QUALIFIED SERVICE TECHNICIAN** should check the truck monthly for proper lubri-

cation, 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 maintenance technician.

	<p>Electric Truck Daily Operator Check-Off List</p>																															
	<p>Date _____ Operator _____</p> <p>Truck No. _____ Model No. _____</p> <p>Dept. _____ Shift _____</p> <p>Hour Meter Reading—Drive _____ Hoist _____</p>																															
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;">Check</th> <th style="width: 20%;">O.K. (✓)</th> <th style="width: 40%;">Need Maintenance</th> </tr> </thead> <tbody> <tr><td>Tires</td><td></td><td></td></tr> <tr><td>Load Wheels</td><td></td><td></td></tr> <tr><td>Horn</td><td></td><td></td></tr> <tr><td>Lift—Lower Control</td><td></td><td></td></tr> <tr><td>Attachment Operation</td><td></td><td></td></tr> <tr><td>Forward & Reverse Controls</td><td></td><td></td></tr> <tr><td>Steering</td><td></td><td></td></tr> <tr><td>Electrical Brakes</td><td></td><td></td></tr> <tr><td>Hydraulic Leaks, Cylinders, Valves, Hoses, Etc.</td><td></td><td></td></tr> </tbody> </table>	Check	O.K. (✓)	Need Maintenance	Tires			Load Wheels			Horn			Lift—Lower Control			Attachment Operation			Forward & Reverse Controls			Steering			Electrical Brakes			Hydraulic Leaks, Cylinders, Valves, Hoses, Etc.			
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Sample of Operator Check List

Operator Checks

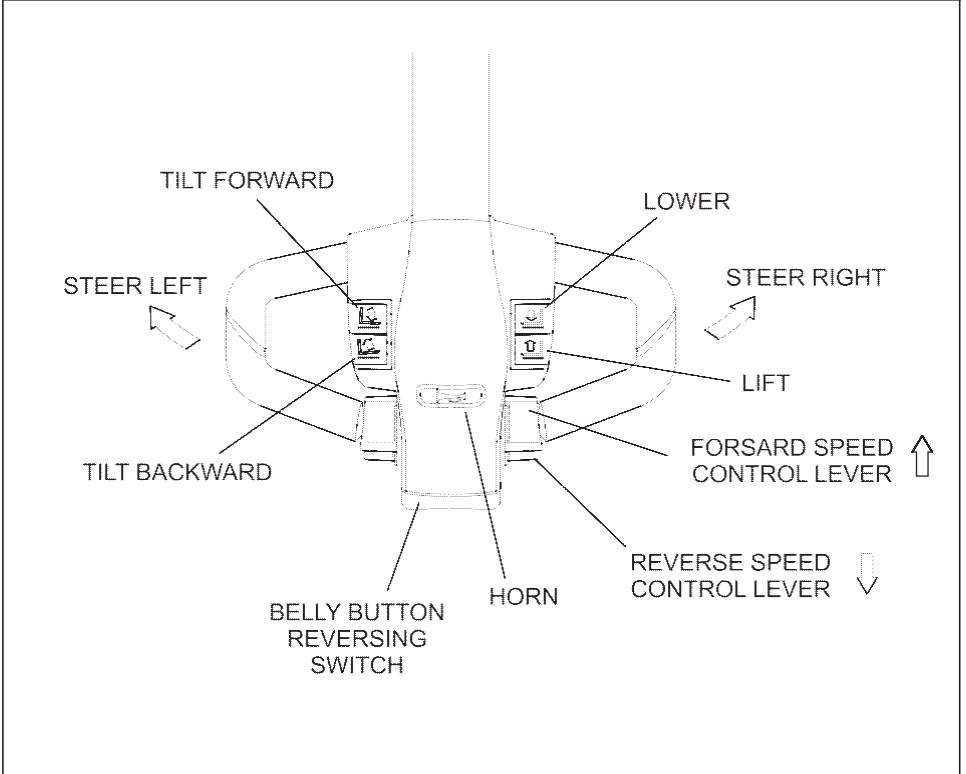
ITEM	PROCEDURE
Transmission and hydraulic systems	Check for signs of fluid leakage.
Forks	Check for cracks and damage and that they are properly secured.
Chains, cables and hoses	Check that they are in place, properly secured and not damaged.
Guards and load backrest	Check that safety guards are in place, 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 for freedom of rotation.
Hydraulic controls	Check operation of lift and lower, and tilt 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) 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	Allow for enough space to operate truck in high speed. Elevate forks approximately two feet, then test drive truck to check if high speed is cut out.

INSTRUMENTS AND CONTROLS

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 disconnect removes all power from truck circuits in the event of an emergency.



Control Handle

OPERATION

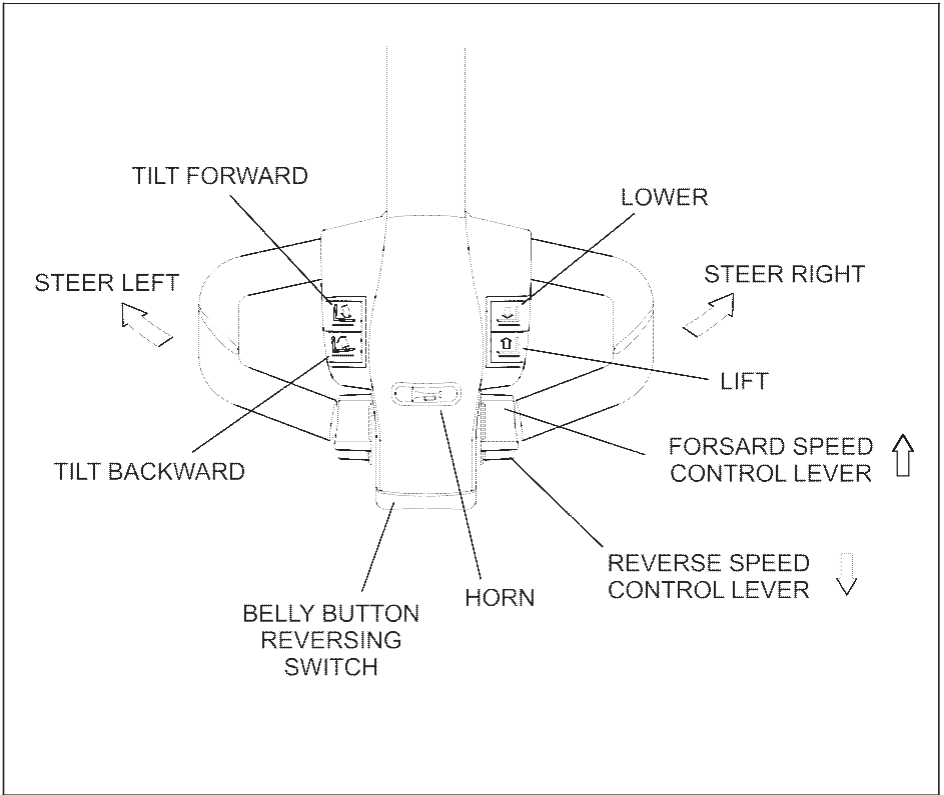
Forward and Reverse Travel and Speed Control

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.



Control Handle

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.

Stopping

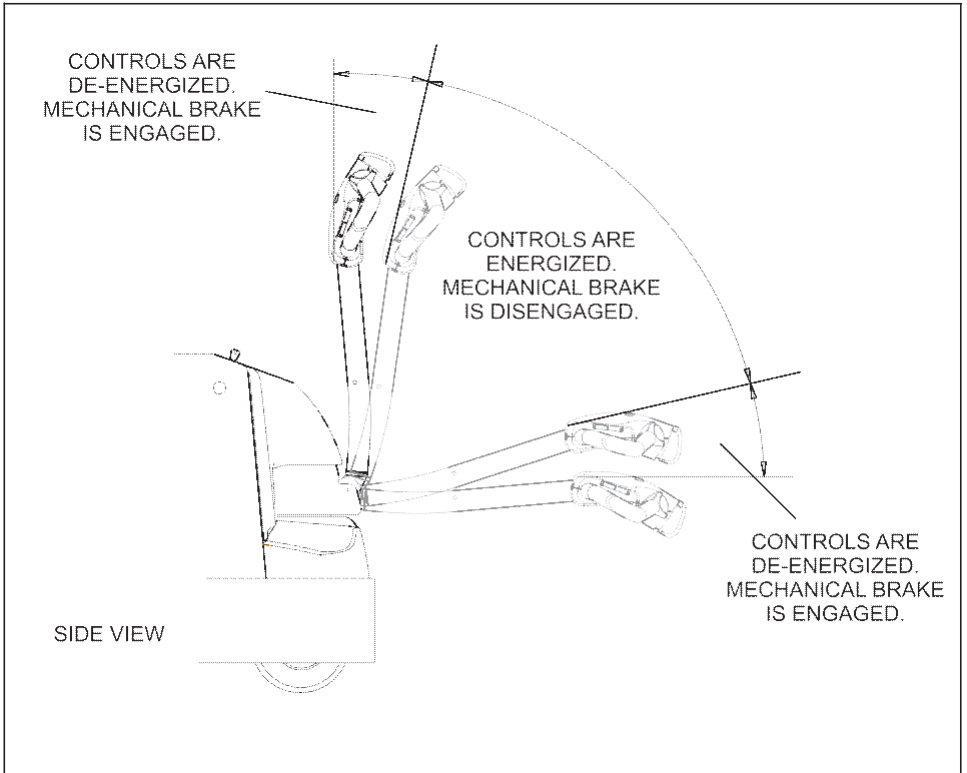
Stop the truck as gradually as possible. Unnecessary rapid stopping could be hazardous. Load could become unstable.

There are four possible ways to stop the truck:

1. **Plugging:** This electrical braking function consists of rotating the speed control lever in the oppo-

site 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.

2. **Steering arm:** The brake is fully applied by lowering or raising the steering arm. All traction control power is shut off when the brake is engaged. When the steering arm is in the upright position, the brake acts as a parking brake. Deadman braking occurs when the handle is released and spring action raises steering arm to the upright position.



Steering Arm Braking Positions

3. **Regenerative Braking:** If the speed control lever is released, the truck automatically brakes regeneratively. When the speed is below 0.5 MPH, the brake applies.


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.
4. Turn keyswitch (if so equipped) to off position. Remove key for added security.
5. Pull out battery disconnect.

Battery Charging

Refer to DOC 245 for battery safety and maintenance.

BATTERY HAZARD	
	<p>⚠ DANGER</p> <p>EXPLOSIVE/POISON/CAUSTIC NO SPARKS, FLAMES, SMOKING BATTERY ACID can cause blindness and severe burns SHIELD EYES, AVOID SKIN CONTACT IF SPLASHED flush immediately with water, get medical help fast.</p> <p>Do not service battery while on charge. Do not connect or disconnect battery from charger while charger is on.</p> <p>Only qualified and experienced personnel should perform maintenance and repair on batteries. Use caution while servicing or removing battery. (Refer to Battery Safety Sheet).</p>

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

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.

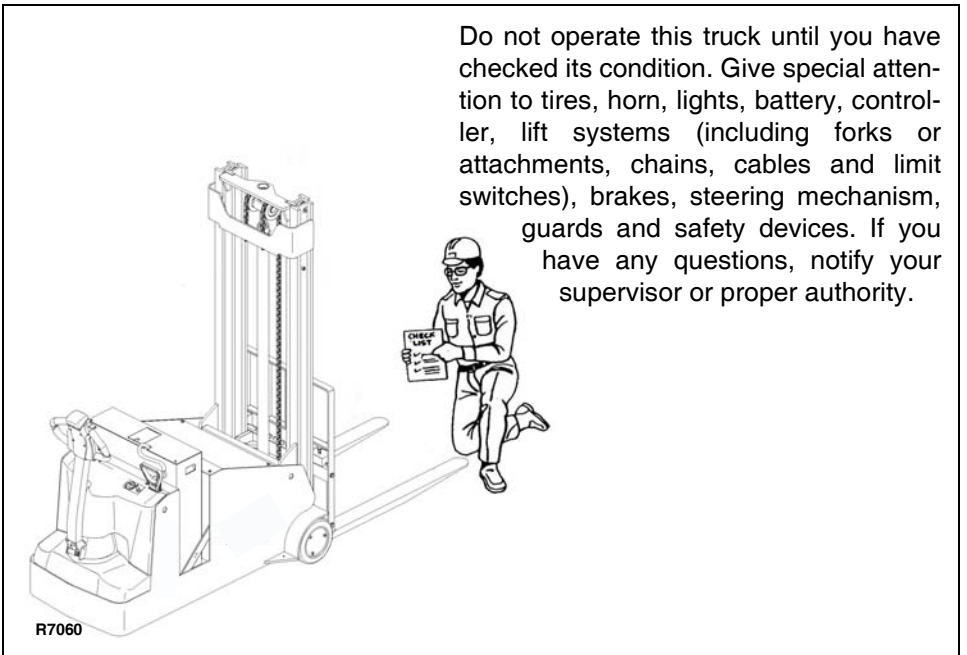
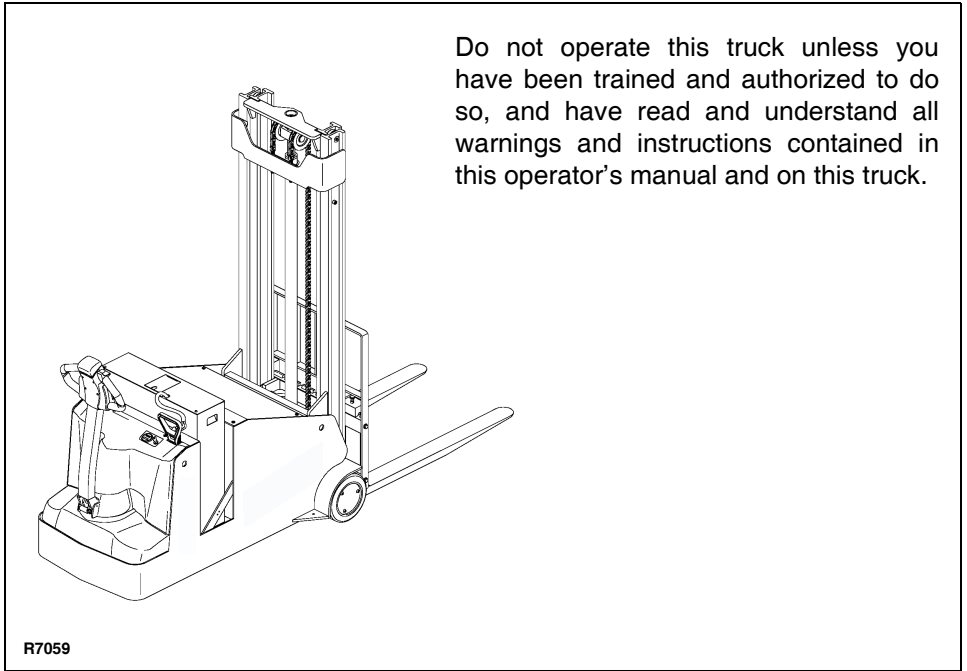
1. Approach the load slowly.
2. Stop the truck when the forks are just in front of the load.
3. Adjust the forks to the maximum practical width to support the load to be lifted.
4. Raise or lower the forks until they are properly aligned with the pallet openings.
5. Move the truck slowly into position 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. Tilt (if so equipped) the forks slightly backward.

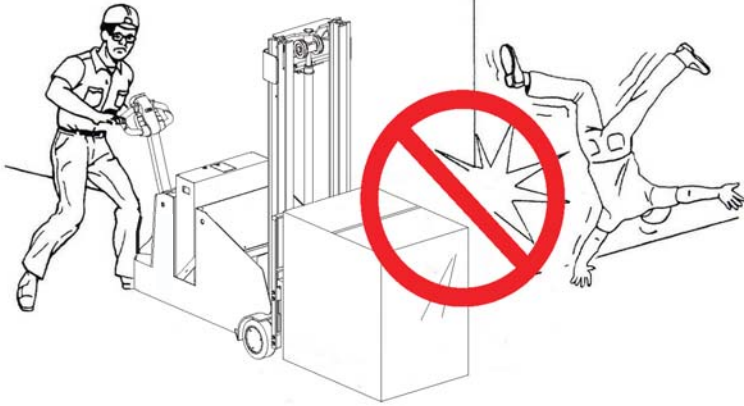
7. Move the truck away from the rack until the load clears the rack and then lower the forks.
8. Lead the truck by the control handle with the load trailing except when in confined areas. Ramps should be traveled with operator uphill of truck when empty, or operator downhill of truck with load on forks.
9. Always look in the direction of travel. Move slowly and check clearances when approaching obstructions.
10. Do not make sudden starts and stops. Operate truck smoothly and gradually.
11. 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.
12. Line up the truck with the unloading area.
13. Stop the truck and raise or lower the forks until the pallet is in position with the unloading area.
14. Check the load alignment with surrounding objects.
15. Be careful not to damage or move adjacent loads and objects.
16. Slowly move into position.
17. Lower the forks and tilt forward until the load is resting on its own. Be sure there is no downward force on the forks on the rack or floor.
18. Move the truck back until the forks are clear of the pallet.
19. If forks are elevated, lower to travel position.

Moving a Disabled Truck

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

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

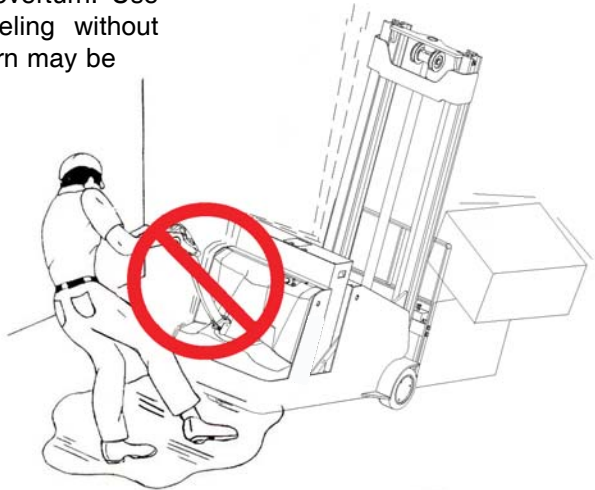




Observe applicable traffic regulations. Yield right-of-way to pedestrians. Slow down and sound horn at cross aisles and wherever vision is obstructed.

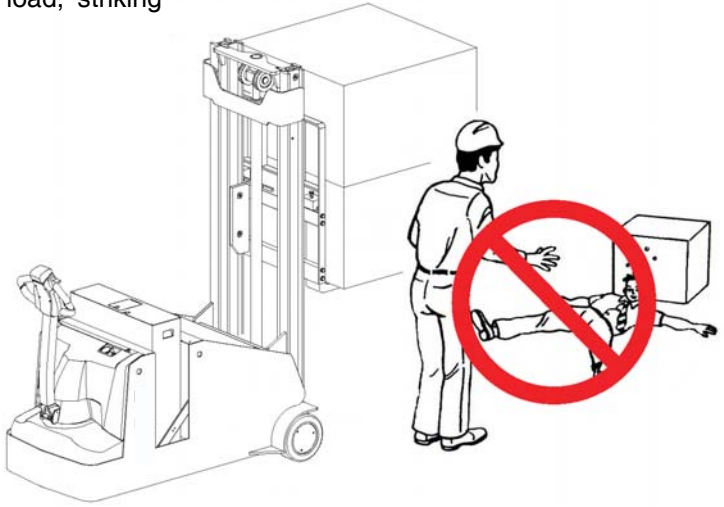
R7056

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 risk of overturn may be greater.



R7066

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.



R7071

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.



R7072

NOTICE - OBTAINING A PARTS AND SERVICE MANUAL

A complete parts and service manual covering this truck is available from Blue Giant Manufacturing Company. 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, Canada L5T 2N6
t 905.457.3900 f 905.457.2313

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