
Operator's Instruction Manual



ECA Series
Cushion Tire



EPA Series
Pneumatic Tire

ECA/EPA 17 thru 30

CLARK



WARNING

**FOR YOUR SAFETY AND THE
SAFETY OF OTHERS**

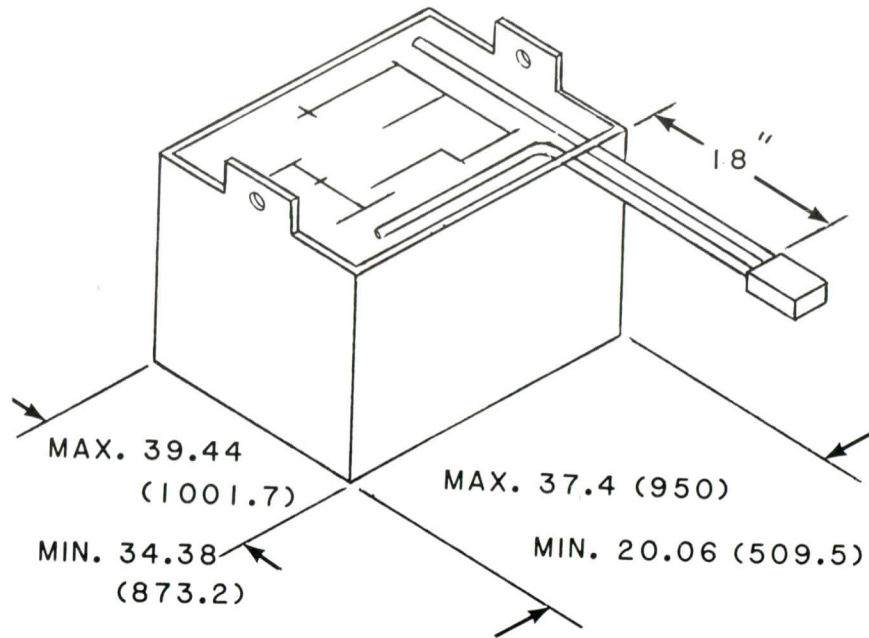
BEFORE YOU OPERATE THIS TRUCK!

**READ ALL WARNINGS AND INSTRUCTIONS IN THE
OPERATOR'S MANUAL AND ON THE TRUCK.**

CHECK THE TRUCK FOR CORRECT OPERATION.

**DO NOT OPERATE THIS TRUCK UNLESS YOU ARE
TRAINED AND AUTHORIZED TO DO SO.**

BATTERY RETAINMENT



Use only the following battery sizes with retainers provided.

20.06 (509.5) to 37.4 (950) long

34.38 (873.2) to 39.44 (1001.7) wide

For all battery sizes — adjust battery stop to retain the battery from moving not more than $\frac{1}{2}$ inch in a horizontal direction.

On occasion, you may need to reposition the battery retainers to accommodate a different size battery. The bolt-nut combination for the fore/aft retainer should be tightened to [72-80 N·m] 53-59 lbf. ft. The bolt-nut combination for the lateral retainers should be tightened to [41-45 N·m] 30-33 lbf. ft.

ELECTRIC TRUCK BATTERY SPECIFICATIONS

BATTERY MUST COMPLY WITH THE FOLLOWING PARAGRAPHS FROM U/L 583 STANDARD FOR ELECTRIC BATTERY POWERED INDUSTRIAL TRUCKS, COVERING CONSTRUCTION

11. Battery Compartment and Enclosure
 - 11.1 Support and protection shall be provided for the battery by means of a noncombustible enclosure.
 - 11.2 A metal battery enclosure shall not be less than 0.053 inch (1.35 mm) thick. A metal battery enclosure shall be flanged not less than 1/2 inch (12.7 mm) on all sides or be provided with a construction that gives equivalent strength.
 - 11.3 The cover of a battery enclosure shall remain closed by the force of gravity or shall be provided with a fastener.
 - 11.4 A metal cover for a battery enclosure shall:
 - A. Have such strength and rigidity that, in conjunction with an air spacing provided between it and the battery terminals, the battery terminals are not short-circuited when a 250 pound (1110 newton) force is applied to any one-square-foot [930-square centimeters (cm²)] area of the cover; or
 - B. Have insulation secured to the inner surface designed to prevent short-circuiting of the battery terminals.
 - 11.5 The battery enclosure shall be provided with means for ventilation that minimizes the possibility of accumulation of explosive hydrogen-air mixtures above the battery.

ELECTRIC TRUCK BATTERY SPECIFICATIONS

- 11.6 Means shall be provided as a part of the truck to restrain a battery of nominal voltage rating and representative of maximum ampere-hour capacity rating from moving more than a total of 1/2 inch (12.7mm) in a horizontal direction.
12. Battery
- 12.1 A battery furnished with a noncombustible tray and cover intended to form the ultimate enclosure for the battery shall comply with the requirements in paragraphs 11.1-11.5.
- 12.2 Cells employing metal containers, such as alkaline batteries, shall be insulated from one another and from a metal tray or metal battery compartment. Insulation of wood or other material shall be (1) treated or painted to minimize deterioration by the battery electrolyte, and (2) constructed to minimize the risk of damage to the insulation in the normal operation and maintenance of the truck.
- 12.3 The connections shall be such that the potential between any two adjacent cells cannot be more than 24 volts nominal.
13. Battery Leads
- 13.1 A battery lead shall be of a size and ampacity acceptable for the application. It shall be (1) neoprene-insulated or insulated with an equivalent material, (2) resistant to acids or alkalis, and (3) able to withstand flexing, handling, and impact at temperatures between 54°C (130°F) and minus 29°C (minus 20°F). The average insulation thickness shall not be less than 0.060 inch (1.52 mm) for a No. 8-2 AWG (8.4-33.6 mm²) wire and shall not be less than 0.080 inch (2.03 mm) for a No. 1-4/0 AWG (42.4-107.2 mm²) wire.

ELECTRIC TRUCK BATTERY SPECIFICATIONS

14. Battery Connection

- 14.1 A truck shall be equipped with a battery connector located to provide mechanical protection as required for other electrical parts of the truck.
- 14.2 One part of the connector shall be permanently mounted to either the truck or the battery enclosure. The length of the cable attached to the free part of the connector shall be as short as practicable, without interfering with the disconnecting operation and without placing stress on terminals.
- 14.3 Live parts shall be recessed from the face of the connector to minimize the possibility of shorting.
- 14.4 The removable portion of the connector shall be provided with means for being grasped during removal.
- 14.5 A battery connector shall have the proper rating for use in its particular application.

FOR EE CONSTRUCTION BATTERIES MUST COMPLY WITH THE FOLLOWING ADDITIONAL PARAGRAPHS:

- 36.1 The battery enclosure shall be provided with a cover with means for locking it in the closed position to deter opening by unauthorized persons. Insulation designed to prevent shorting of the terminals shall be secured to the inner surface of a metal enclosure, over the terminals.

ELECTRIC TRUCK BATTERY SPECIFICATIONS

- 36.2 All upper openings shall be covered with a heavy-gauge wire mesh, expanded metal, or a perforated cover. The size and shape of the opening shall not permit passage of a rod having a diameter greater than 1/2 inch (12,7 mm). If the distance between an uninsulated live part and the opening is greater than 4 inches (101.6mm), the opening may be larger than that previously mentioned, provided no opening will permit passage of a rod having a diameter greater than 3/4 inch (19,0mm). The diameter of the wires of a screen shall be no less than 0.051 inch (1.30 mm) if the screen openings are 1/2 square inch (3.2 cm²) or less in area, and shall be no less than 0.081 inch (2.06 mm) for larger screen openings. Perforated sheet steel and sheet steel employed for expanded-metal mesh shall be no less than 0.042 inch (1.07 mm) in thickness if uncoated and no less than 0.045 inch (1.14 mm) if zinc-coated for mesh openings or perforations 1/2 square inch (3.2 cm²) or less in area. They shall not be less than 0.080 inch (2.03 mm) in thickness if uncoated and no less than 0.084 inch (2.13 mm) if zinc-coated for larger openings.

FOREWORD

Federal and state laws require that operators be completely trained in the safe operation of lift trucks.

Before you start operating this lift truck, make sure that you understand all driving procedures. It is important to operate your lift truck safely and efficiently.

This manual will help you learn how to operate your lift truck. This manual describes the controls, special features and the functions of each control.

This manual is not a training manual, it is a guide to help authorized operators safely operate a lift truck. Illustrations in this manual show the operator correct procedures for checking, starting, operating and stopping the lift truck.

Clark lift trucks are built to take hard work, but not abuse. They are built to be dependable but as with any lift truck, they are only as efficient as the operator and the persons responsible for maintaining them.

Do not make any repairs to this truck unless you have been trained in lift truck repair procedures and authorized by your employer.

MANUALES DE INSTRUCCION PARA OPERADORES IMPRIMIDOS EN ESPAÑOL SON OBTENIDOS DE SU DISTRIBUIDOR CLARK.

BETRIEBSANWEISUNGEN IN DEUTSCHER SPRACHE KOENNEN SIE BEI IHREM CLARK-HAENDLER ERHÄLTEN.

MANUELS DE L'OPERATEUR EN LANGUE FRANCAISE PEUVENT ETRE COMMANDES CHEZ VOTRE DISTRIBUTEUR CLARK.

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DRIVE SAFELY

BEFORE YOU OPERATE THIS LIFT TRUCK, READ AND UNDERSTAND THE INSTRUCTIONS, SIGNS AND MESSAGES IN THIS MANUAL AND ON THE LIFT TRUCK.

INJURY OR DEATH TO YOU OR OTHER PERSONNEL WILL OCCUR IF YOU DO NOT FOLLOW THESE INSTRUCTIONS AND MESSAGES.

STAY ALERT!

SUMMARY OF SAFE OPERATING PROCEDURES

1. Do not operate this truck unless you have been trained and authorized to do so. Read all warnings 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, Lights, Battery, Controller, Lift and Tilt Systems including forks and attachments, chains, cable and limit switches, brakes, steering mechanism, fuel system, and guards.

3. Operate truck only from designated operating position. Never place any part of your body into the mast structure, between the mast and the truck, or outside the truck. Do not carry passengers.

4. Do not operate truck without overhead guard, unless conditions prevent use of a guard. Use special care if operation without overhead guard is required.

5. 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.

6. 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.

7. Do not overload truck. Check capacity plate for load weight and load center information.

8. 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 is greater.

9. Elevate forks or other lifting mechanism only to pick up or stack a load. Lift and lower with mast vertical or tilted slightly back — NEVER FORWARD. Watch out for obstructions, especially overhead.

10. 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.

11. Travel with load or lifting mechanism as low as possible and tilted back. Always look in direction of travel. Keep a clear view and when load interferes with visibility, travel with load or lifting mechanism trailing (except when climbing ramps).

12. Use special care when operating on ramps — travel slowly, and do not angle or turn. When truck is loaded, travel with load uphill. When truck is empty, travel with lifting mechanism downhill.

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

14. When using forks, space forks as far apart as load will permit. Before lifting, be sure load is centered and forks are completely under load.

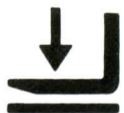
15. Do not allow anyone to stand or pass under load or lifting mechanism.

16. Do not lift personnel on the forks of a lift truck.

17. Before getting off truck, neutralize travel control, fully lower lifting mechanism and set parking brake. When leaving truck unattended, also shut off power.

CONTROL LEVER SYMBOLS

LIFT



LOWER

TILT



FORWARD

REACH



EXTEND

SIDESHIFT



TO LEFT

FORK SPREAD



OPEN



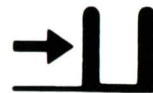
RAISE



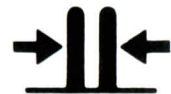
REARWARD



RETRACT



TO RIGHT



CLOSE

CONTROL LEVER SYMBOLS

SWING OR PIVOT

LOAD STABILIZER

PUSH/PULL

CLAMP

ROTATE



ANTI-CLOCKWISE



RELEASE



PUSH



RELEASE



ANTI-CLOCKWISE



CLOCKWISE



CLAMP



PULL



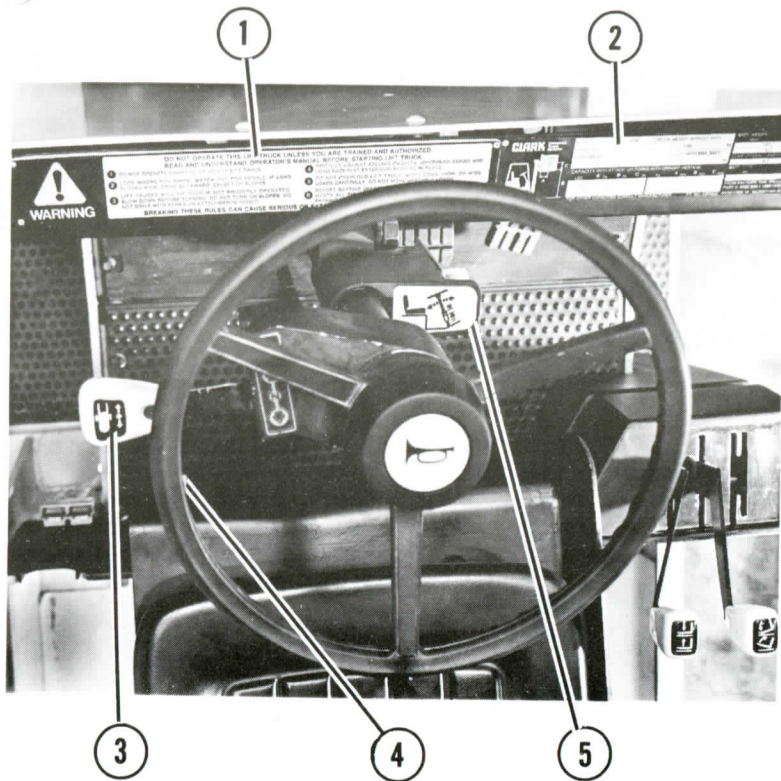
CLAMP



CLOCKWISE

TRUCK DATA PLATE AND DECALS

MAKE A REPORT OF DECALS THAT ARE DAMAGED OR MISSING AND REPLACE THEM IMMEDIATELY.



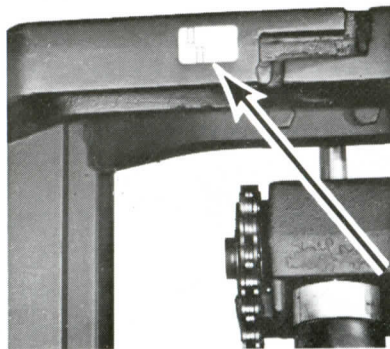
1. OPERATOR WARNING DECAL
2. TRUCK NAME PLATE
3. DIRECTIONAL LEVER DECAL
4. SEAT RELEASE LEVER DECAL
5. STEERING COLUMN RELEASE LEVER DECAL

22283

TRUCK DATA PLATE AND DECALS



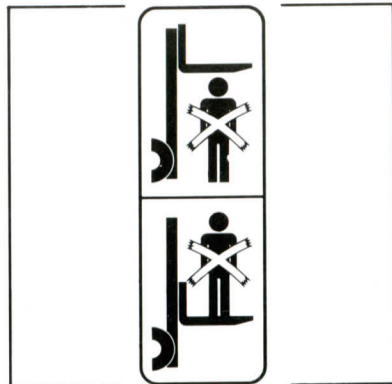
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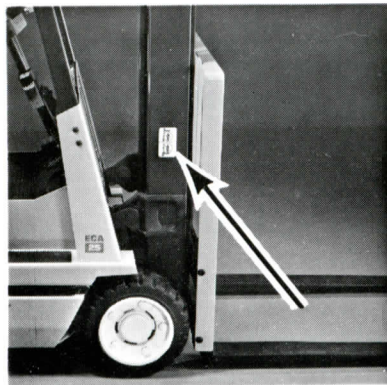
22285

KEEP HANDS OFF

Do not reach into or climb on the upright. Personal injury will result if any part of your body is put between moving parts of the upright.



19340



22286

KEEP AWAY FROM FORKS

Do not ride on or stand under forks or attachments. Personal injury will result if personnel stand on or under raised forks or attachments.

TRUCK DATA PLATE AND DECALS



22269

HAND WHEEL POSITION DECAL

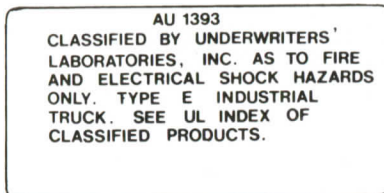
This decal shows the hand wheel positions. It is adjustable to several comfort positions.



22268

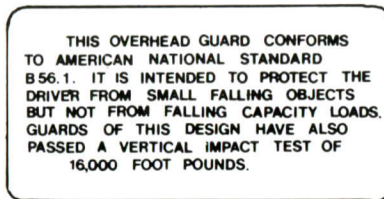
SEAT POSITION DECAL

This decal shows the operators seat positions. Raise the seat for battery removal.



LOCATED ON THE COWL

22271



LOCATED ON THE OHG

22270

Page 9

OPERATOR WARNING DECAL



WARNING

**DO NOT OPERATE THIS LIFT TRUCK UNLESS YOU ARE TRAINED AND AUTHORIZED.
READ AND UNDERSTAND OPERATOR INSTRUCTIONS BEFORE STARTING LIFT TRUCK.**

- 1 DO NOT OPERATE DAMAGED OR FAULTY LIFT TRUCK.
- 2 LOOK WHERE YOU DRIVE. WATCH OUT FOR PEOPLE. IF LOAD BLOCKS VIEW, DRIVE BACKWARD, EXCEPT UP SLOPES.
- 3 LIFT TRUCKS WILL TIP OVER IF NOT PROPERLY OPERATED. SLOW DOWN BEFORE TURNING. DO NOT TURN ON SLOPES. DO NOT DRIVE WITH FORKS OR ATTACHMENTS RAISED.
- 4 PROTECT AGAINST FALLING OBJECTS. OVERHEAD GUARD AND LOAD BACKREST EXTENSION MUST BE IN PLACE.
- 5 DO NOT OVERLOAD LIFT TRUCK. MOVE LONG, HIGH, OR WIDE LOADS CAREFULLY. DO NOT MOVE UNSTABLE LOADS.
- 6 BEFORE GETTING OFF LIFT TRUCK, LOWER FORKS OR ATTACHMENTS ALL THE WAY AND PUT SHIFT LEVER IN PARK TO SET PARKING BRAKE.

BREAKING THESE RULES CAN CAUSE SERIOUS OR FATAL INJURY TO YOURSELF AND OTHERS.

22294

The operators warning decal describes basic instructions for safe operation of a lift truck. Read and understand these instructions plus the other messages in this manual and on the lift truck.

TRUCK DATA AND CAPACITY PLATE

	CLARK Industrial Truck Division		MODEL 1	TYPE 2	TRUCK WEIGHT WITHOUT BATT.	BATT. WEIGHT			
	SERIAL NO. 3	ATTACHMENTS 4	6 LBS	kg	MAX	MIN			
	CAPACITY WITH ATTACH. OR FORKS WITH UPRIGHT VERTICAL		TRUCK WEIGHT WITH MAX. BATT.	7 LBS	8 LBS	LBS			
	LBS	A IN	B IN	C IN	kg	A mm	B mm	C mm	COMPARTMENT LENGTH
5							BATT. TYPE	IN	mm
						AH		VOLTS	
						10			
FOR OTHER CAPACITIES CONSULT MANUFACTURER					PT NO 2363222	FROM FACTORY THIS TRUCK MEETS PART II, ANSI B56 1 1969 1975			
						BATTLE CREEK, MI GEORGETOWN KY			

22244

Know the rated capacity of your lift truck and its attachments. Never exceed these rated capacities.

Read the rated capacity on the data plate, read and know areas 1 thru 10 as shown in the illustration.

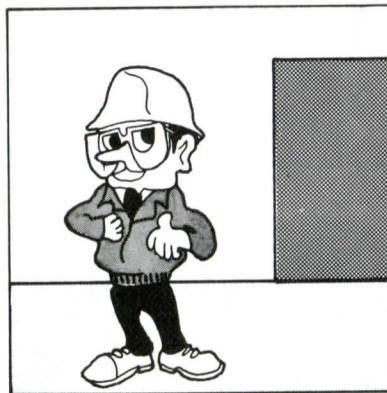
- | | |
|---------------------------------|-------------------------------|
| 1. Truck Model | 6. Truck Weight w/o Battery |
| 2. Type | 7. Truck Weight with Battery |
| 3. Serial Number | 8. Battery Weights |
| 4. Attachments (when installed) | 9. Battery Compartment Length |
| 5. Capacity | 10. Battery Type |

SAFETY



13696

Only trained and authorized personnel can operate Clark lift trucks.



20277

Wear a hard hat, safety glasses and safety shoes when operating a lift truck. Do not wear loose clothing.



22256

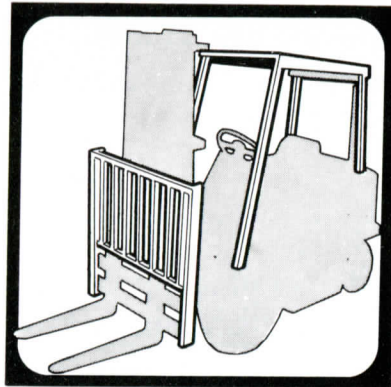
Inspect your truck with the operator's daily checklist before you operate it. Make sure all safety systems work correctly. Do not operate a lift truck that has damage or is not safe. Make a report of decals that are missing or damaged and replace them immediately.

SAFETY



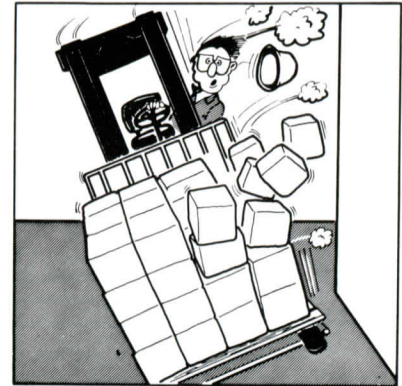
22265

Do not operate your truck in unauthorized areas. Follow all safety rules and read all warning signs. Slow the speed of your truck and use the horn near corners, exits, entrances, and near people.



17638

Do not operate a lift truck without a load backrest extension or an overhead guard. These safety items are for your protection. Personal injury or death can result if you remove the overhead guard and load backrest extension from the lift truck.



22292

Do not start, stop, travel, turn or change directions suddenly. Decrease speed for turns, ramps, aisles, wet floors or when visibility is not clear. Use caution when traveling without a load. Remember, operate your truck safely and avoid accidents.

SAFETY



17631

Do not raise personnel on the forks of your lift truck.



22279

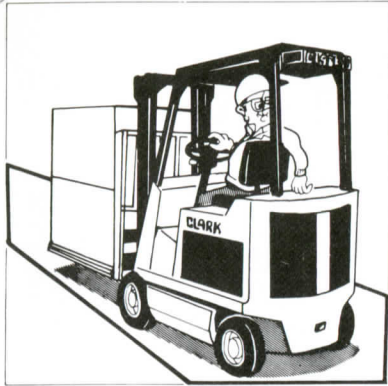
Never operate a lift truck with wet hands or shoes. Never hold any controls with grease on your hands. Your hands or feet will slide off of the controls and cause an accident.



22257

Travel with the load tilted back and the forks as low as possible. This will increase stability to the truck and load and permit better visibility for you.

SAFETY



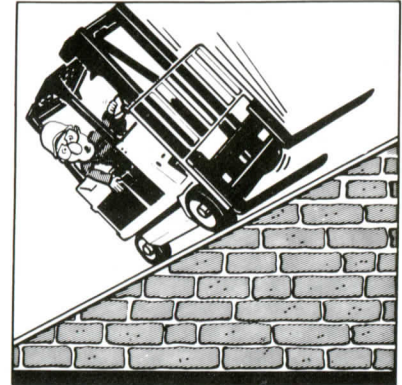
22262

Do not drive in forward direction when loads restrict your visibility. Operate your lift truck in reverse to improve visibility except when moving up a ramp.



22259

Do not go down ramps in a forward direction with a load on the forks. The steer wheels can raise off of the floor and cause an accident. Remember go up ramps forward and down ramps in reverse. When moving with a load.



22293

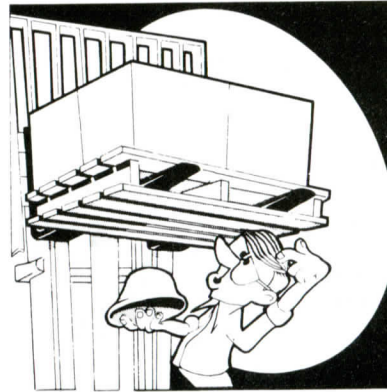
Do not turn when going up or down a ramp. The truck will lose stability and roll over and cause injury or death to personnel and damage to equipment. Travel slowly and operate the truck carefully on ramps.

SAFETY



22264

Do not raise or tilt the forks more than necessary when handling loads. Too much tilt can cause the load to fall or the truck to lose stability and roll over resulting in injury to personnel. Raise and tilt loads smoothly and carefully.



17635

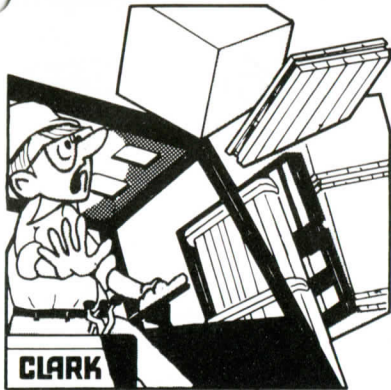
Do not permit any one to stand or walk under the load or lifting mechanism. The load can fall and cause injury or death to anyone standing below.



22261

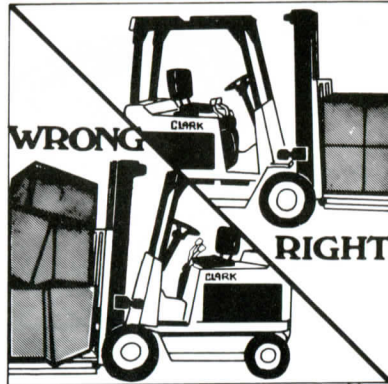
Do not lift or move a load unless both forks are fully under the load. Do not lift a load with one fork. Position the forks as wide as possible under the load. Handle loads carefully and check them closely for stability and balance. Remember, falling loads cause injury and damage.

SAFETY



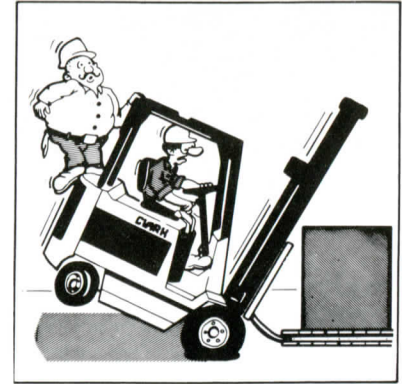
21494

Do not move loads that are stacked higher than the load backrest extension. The load can fall and cause injury to you or other personnel.



22263

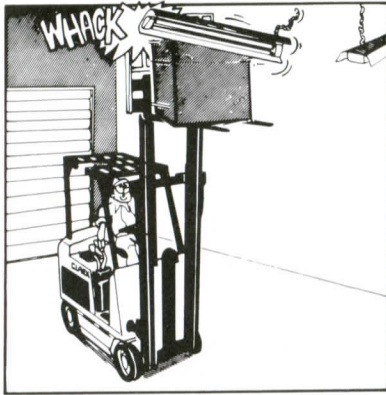
Do not lift or move loads that are not safe. Make sure loads are correctly stacked and positioned across both forks. Operate slowly when moving long high or wide loads. Look out for other persons or obstructions in your path of travel.



22291

Do not overload your truck or add extra counterweight to the truck. Know the rated capacity of your truck and its attachments. Never exceed the rated capacities. An overload can cause the truck to roll over and cause injury to personnel and damage to the lift truck.

SAFETY



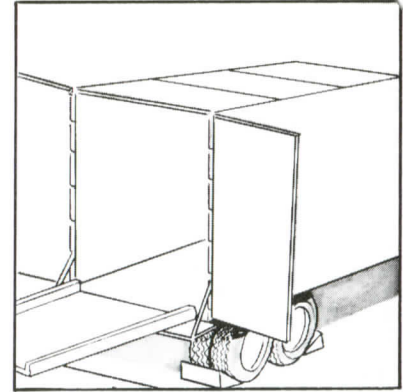
22266

Do not travel with the load raised. The lift truck can roll over and cause injury or death to you or other personnel. Look out for overhead obstructions when raising or stacking loads. Be alert for falling loads when stacking.



22287

Be careful when operating a lift truck near the edge of a loading dock or ramp. The truck can fall over the edge and cause injury or death. Keep a safe distance from the edge and use caution when the floor is slippery.



13146

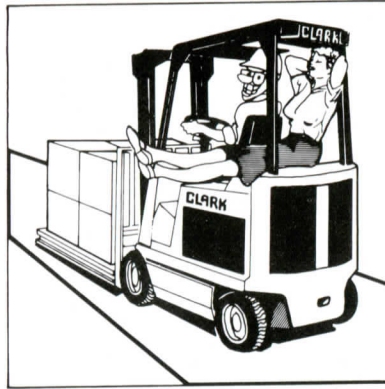
Do not operate over bridge plates unless they are strong and can support the weight of the truck and load. Make sure they are in the correct position. Put blocks on the vehicle you enter to keep it from rolling. Be careful, a lift truck can fall and cause injury or death.

SAFETY



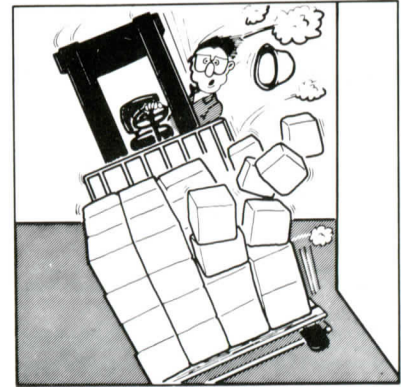
22267

Do not operate a lift truck unless you are in the operators seat. Keep your hands and feet on the levers and controls and do not extend them past the operators area. Remember, operate your truck correctly and avoid injury.



22260

Do not let other personnel ride on the truck. They can fall off or cause you to have an accident. Lift trucks are designed to carry loads, not personnel.



22292

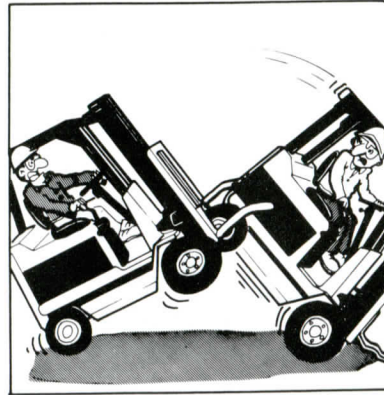
Operate your truck carefully to prevent an accident. Remember, safety first. Accidents can cause injury to persons and damage to the load and equipment.

SAFETY



22289

Do not operate your truck close to another truck. You can cause an accident which will cause injury to personnel and damage to equipment. Keep a safe distance from other trucks and make sure there is enough distance to stop safely.



22290

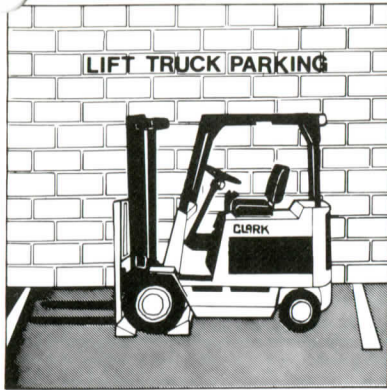
Do not use your lift truck to push or tow another truck. Do not let another push or tow your truck. If a truck will not move, call a service technician.



22288

An operator must be in full control of the lift truck at all times. Look in the direction of your path of travel. Keep your hands and feet correctly on the controls. Operate your lift truck according to these safety messages and avoid accidents.

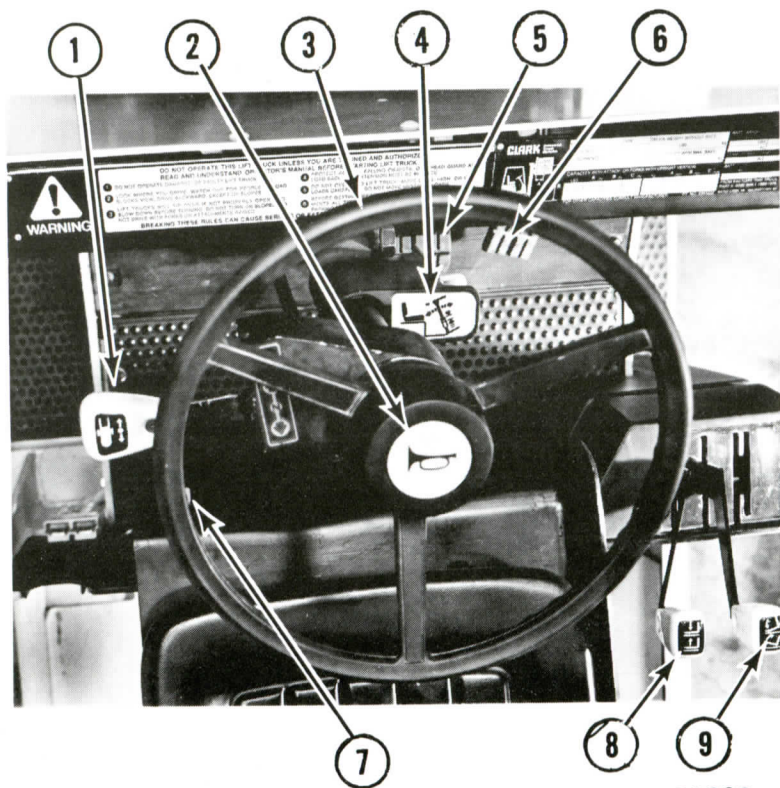
SAFETY



22258

Park your lift truck in authorized areas only. Fully lower the forks to the floor, put directional lever in "park" position and turn the key to the "off" position. Remove the key and put blocks behind the wheels to prevent the truck from rolling.

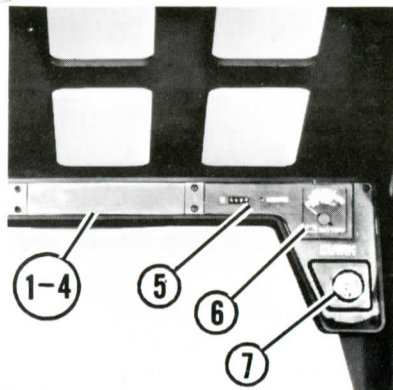
OPERATOR'S COMPARTMENT & CONTROLS



1. Directional Control Lever
2. Horn Button
3. Steering Handwheel
4. Steering Handwheel Release Lever
5. Brake Pedal
6. Accelerator Pedal
7. Seat Release Lever
8. Lift Control Lever
9. Tilt Control Lever

22283

OPERATOR'S COMPARTMENT & CONTROLS



22295

1. Drive Motor Brush Wear Indicator Light
2. Drive Control Temperature Indicator Light
3. Pump Motor Brush Wear Indicator Light
4. Pump Control Temperature Indicator Light
5. Hour Meter
6. Battery Indicator
7. Key Switch



22284

1. Operator's Manual Holder.

NOTE: The motor brush wear indicator lights will illuminate with the key switch in the test position even though the truck may not be equipped with this optional feature.

BEFORE OPERATION

**ELECTRIC TRUCK
DRIVER'S DAILY CHECKLIST**
Check Before Start Of Each Shift

Truck No. _____ Date _____
Operator _____ Supervisor's DR _____

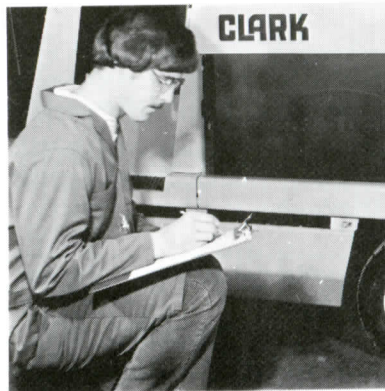
Hour Meter Reading _____
Start of Day _____ End of Day _____ Hrs. for Day _____

Boxes Accordingly OK Needs Attention or Repair

Visual Checks	Operational Checks
<ul style="list-style-type: none"> <input type="checkbox"/> Obvious damage and leaks <input type="checkbox"/> Tire condition <input type="checkbox"/> Battery plug connection Note: Be sure the battery plug connection is tight. <input type="checkbox"/> Head and tail lights <input type="checkbox"/> Warning lights <input type="checkbox"/> Hour meter <input type="checkbox"/> Other gauges and instruments <input type="checkbox"/> Battery charge indicator Note: Key on, needle should indicate in green area. 	<ul style="list-style-type: none"> <input type="checkbox"/> Horn <input type="checkbox"/> Steering <input type="checkbox"/> Service brakes <input type="checkbox"/> Battery Load Test Note: Watch battery indicator while holding test lever on full back set. If needle falls to red area, battery doesn't have sufficient charge to operate truck properly. <input type="checkbox"/> Parking brake <input type="checkbox"/> Seat brake <input type="checkbox"/> Hydraulic controls

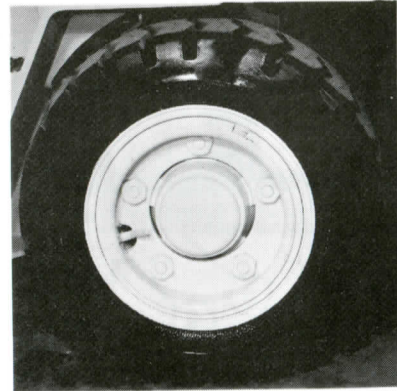
13124

Each operator must complete the daily checklist. Do all of the checks and give list to authorized personnel. See your Clark dealer for copies of the checklist sheets.



22272

Inspect the truck and look for damage and leakage. Write all damage and leakage on the daily checklist.



22219

Check the condition of the drive wheels and tires. Check the air pressure in pneumatic tires. Look at the Planned Maintenance and Adjustment Manual for correct procedures and specifications.

TIRE PRESSURES

Drive — 14 ply [827 kPa] 120 P.S.I.
 16 ply [931 kPa] 135 P.S.I.
Steer — [965 kPa] 140 P.S.I.

BEFORE OPERATION



22273

Check the condition of the steer wheels and tires. Check the air pressure in pneumatic tires. Look at the Planned Maintenance and Adjustment Manual for correct procedures and specifications.

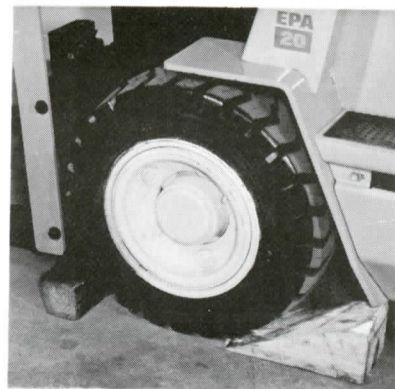
WARNING

Remove air from the tire before removing tires from the truck. Personnel working on wheels and tires must be qualified and trained to do wheel and tire maintenance.



22152

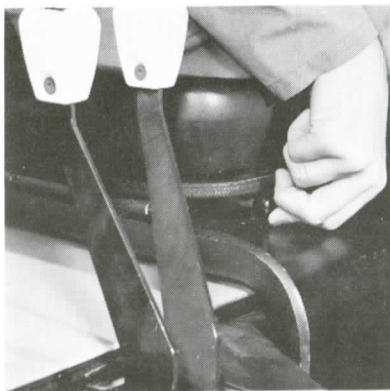
Check condition of overhead guard and load backrest extension. Make sure they are properly positioned and mounted securely.



22160

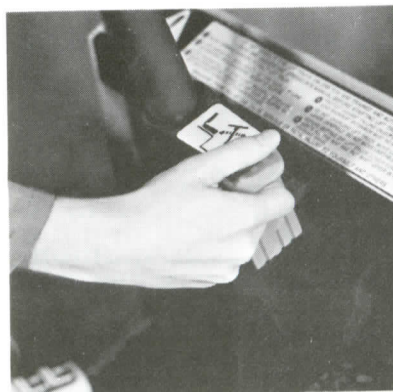
Remove blocks from drive wheels, enter operator's compartment and sit on the seat.

BEFORE OPERATION



22170

Adjust the seat by moving and holding the release lever at the right front edge of the seat. Put the seat in a position which will provide easy reach to all controls. Release the seat lever.



22171

Pull up and hold the steering hand wheel lever and put the wheel in a comfortable operating position. Release the lever and make sure the steering wheel is firmly locked into position.



22275

Push down on the brake pedal with your right foot. The pedal must feel firm and not move down when held. If the pedal moves down, report the failure immediately and do not operate the truck until the brakes are repaired.

BEFORE OPERATION



22161

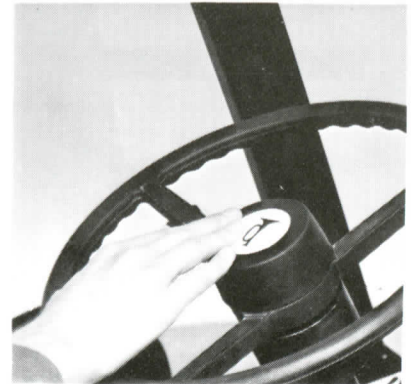
Put the key into the switch and turn fully clockwise and hold. Check the motor indicator lights for operation, release the key to the "on" position.

The brush wear indicator lights will operate on all trucks in the test position even though the truck may not be equipped with this optional feature.



22168

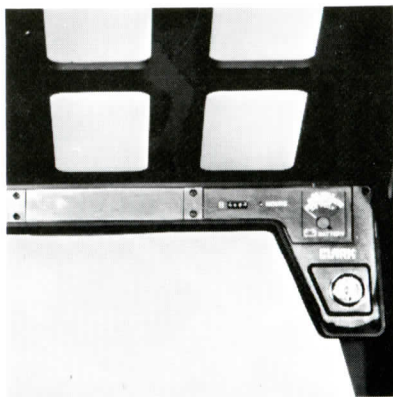
Put the directional lever in "neutral" position. The pump motor will operate.



22174

Press the horn button to check horn function. If the horn does not function, report the failure and have it repaired before the truck is put into operation.

BEFORE OPERATION



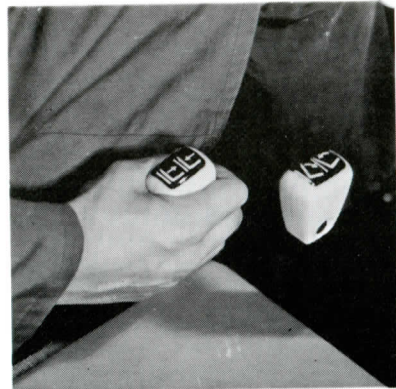
22295

Check the hour meter and battery discharge indicator for operation. The needle of the battery indicator must be in the green area during operation.



22161

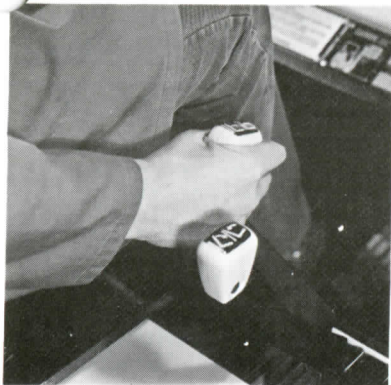
Turn key switch to "on" position, put directional lever in neutral, and put the hydraulic lift control lever in raise position and hold it there. When the system operates over relief, watch the needle of the battery charge indicator. The needle should not go into the RED. If it does, battery does not have sufficient charge for proper truck operation. Also make a battery load test by operating system in back tilt hydraulic by-pass.



22159

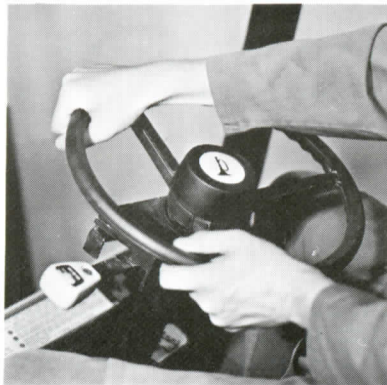
Make sure there is enough overhead clearance and then pull back on the lift control lever. Look at the upright as it raises to maximum height. Release the lever. Note all operating problems on the checklist.

BEFORE OPERATION



22277

Push forward on the lift control lever and watch the upright as it lowers. When forks reach the floor, release the lever. Note all operating problems on the check list.



22279

Move the handwheel in a full right turn and then in a full left turn to check the steering. Return the handwheel to center position.



22278

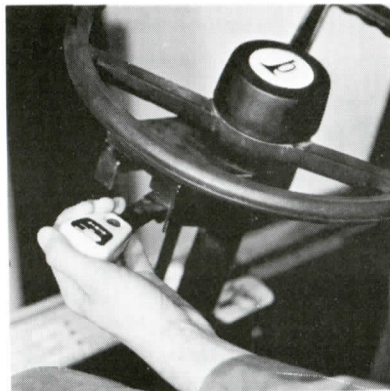
Check and make sure your forward travel is clear. Press firmly on brake pedal and put directional control lever in "forward" travel position.

BEFORE OPERATION



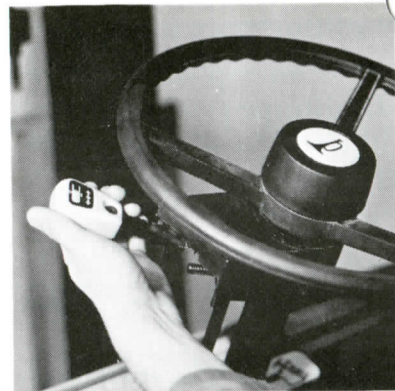
22231

Remove your right foot from the brake pedal and put it on the accelerator pedal. Press down until the truck moves slowly forward. Remove your foot from the accelerator pedal and push down on the brake pedal to stop the truck.



22158

Put the directional lever in "reverse" travel position and press down on the accelerator pedal until the truck moves slowly in reverse. Remove your foot from the accelerator pedal and push down on the brake pedal to stop the truck.



22163

Release the seat and the directional lever will go into the "park" position.

Be sure the directional control lever goes into the "park" position.

BEFORE OPERATION



22161

Turn key switch counterclockwise to "off" position. If all of the before operation checks were normal, the truck can be operated.

CLARK Carro de Elevación
de Trabajo - Montacargas

Propiedad Eléctrica
REVISIÓN DIARIA DEL VEHÍCULO por el CONDUCTOR
(Completar antes de comenzar cada turno)

Fecha: _____

Modelo de Serie: _____ Supervisor: _____

LECTURA del HORÓMETRO: _____ Al Terminar: _____ Horas por Turno: _____

Marcar las Casillas:
 Connormal Requiere Reparación

REVISIONES VISUALES	REVISIONES FUNCIONALES
<input checked="" type="checkbox"/> Defectos Visuales y Fugas	<input checked="" type="checkbox"/> Nivel de Aceite
<input checked="" type="checkbox"/> Condición de las Llantas	<input checked="" type="checkbox"/> Frenos de la Dirección
<input checked="" type="checkbox"/> Condición de la Batería	<input checked="" type="checkbox"/> Frenos de Servicio
<input checked="" type="checkbox"/> NOTA: El estado de la batería debe estar libremente cargada en el funcionamiento.	<input checked="" type="checkbox"/> Carga de la Batería
<input checked="" type="checkbox"/> Fugas y Leaks de Líquido	<input checked="" type="checkbox"/> NOTA: Observe el INDICADOR de nivel de aceite en el depósito de lubricante. A FALTA - si marca en la zona roja, el sistema de aceite requiere mantenimiento urgente.
<input checked="" type="checkbox"/> Lubricación de la Batería	<input checked="" type="checkbox"/> Frenos de Estacionamiento
<input checked="" type="checkbox"/> Herramientas	<input checked="" type="checkbox"/> Frenos del Asiento
<input checked="" type="checkbox"/> Indicador de Carga de la Batería	<input checked="" type="checkbox"/> Elevación Máxima de Horquillas
<input checked="" type="checkbox"/> Nota: marcar en la zona verde al terminar el trabajo con el sistema.	<input checked="" type="checkbox"/> Control de Alimentación
<input checked="" type="checkbox"/> Otros Mantenimientos e Instrumentos	<input checked="" type="checkbox"/> Control de Alimentación

COMENTARIOS (Si requiere más información de reparación o reparación):

Conductor: _____

13124

Review the operator's daily checklist to make sure that it has been completed. Give the checklist to the person responsible for lift truck maintenance.

OPERATION



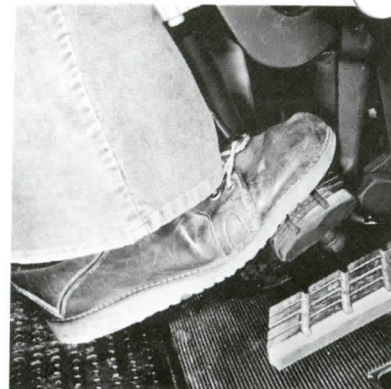
22160

Remove blocks from the drive wheels and sit in the operators seat. Connect the battery to the truck.



22161

Put the key into the switch and turn clockwise to the "on" position.



22275

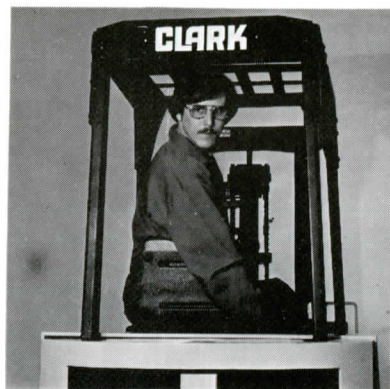
Put your right foot on the brake pedal and push down to activate the brakes.

OPERATION



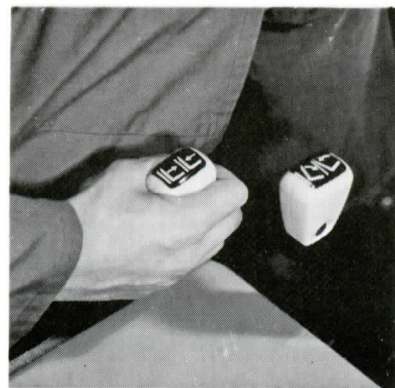
22278

Put the directional control lever in the proper position for desired direction of travel.



22280

Check all around to insure that the desired path of travel is clear of obstructions and personnel.



22159

Pull back on the lift control lever and raise the forks 2 inches [50 mm] above the floor.

OPERATION



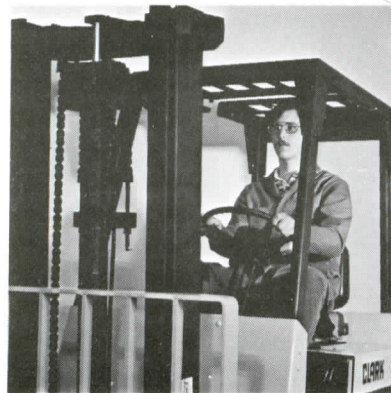
22245

Pull back on the tilt control lever and raise the fork tips off of the floor.



22231

Put your right foot on the accelerator pedal and press down smoothly until the truck is moving at the desired speed.



22281

Be alert for personnel, other trucks or obstacles in your path of travel.

OPERATION



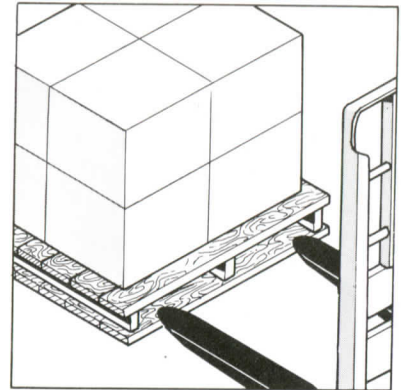
22158

Allow enough stepping distance before you change from reverse to forward or forward to reverse. Truck travel distance is determined by the position of the accelerator pedal.



22275

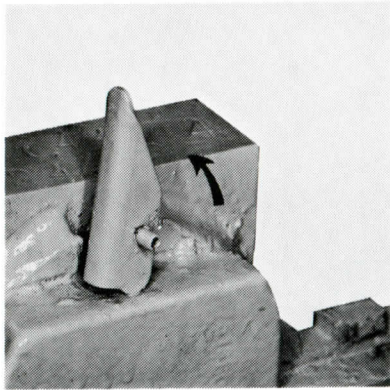
To stop the truck, lift your foot from the accelerator pedal and put it on the brake pedal. Press down on the brake pedal and stop the truck.



13203

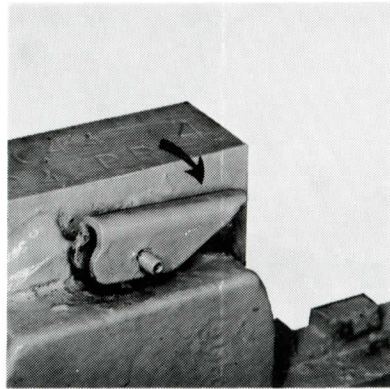
Enter the load carefully. The forks must be fully under the load and spread as wide as possible to provide good stability and balance.

OPERATION



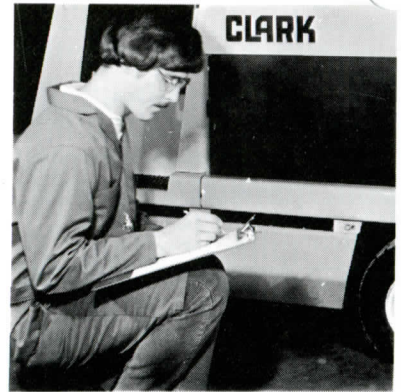
10758

Lift the fork lock lever and slide the forks to get the correct width for the load.



10759

Remember to lower the lever to lock the forks after they are in the correct position.



22272

Be constantly alert for unusual or erratic operation. Report any malfunction immediately so that adjustments or repairs can be performed by trained and authorized personnel.

PARKING



22163

Put the directional control lever in the "park" position.



22277

Lower the forks or attachment to the floor.



22282

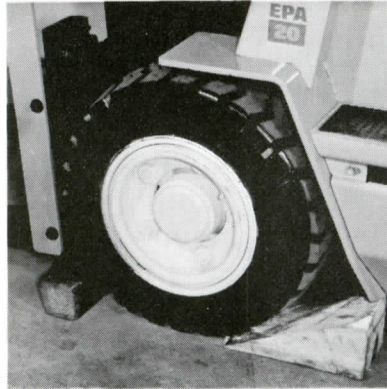
Tilt the upright forward until the fork tips touch the floor.

PARKING



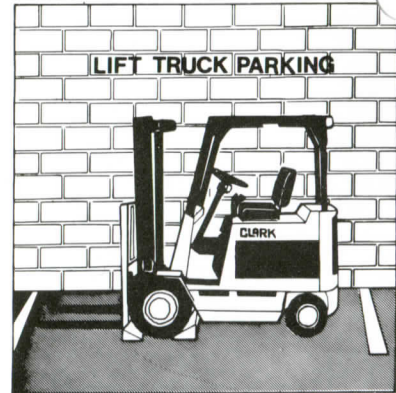
22161

Turn the switch key counterclockwise to the "off" position and remove the key.



22160

Carefully get down from the truck and block the drive wheels to prevent roll.



22258

Put truck only in authorized parking areas.

For Handy Reference

RECORD THE FOLLOWING INFORMATION PERTAINING TO YOUR TRUCK

Model No.

Serial No.

Attachments

Truck Weight W/Battery

Truck Rated Capacity

Gross Truck Weight (W/Battery and Rated Load)

Customer Truck Identification No.



Additional copies of this manual may be purchased from:
YOUR AUTHORIZED CLARK DEALER

CLARK Industrial Truck
Division

Asheville, NC 28776
Battle Creek, MI 49016
Georgetown, KY 40324
St. Thomas, Ontario, Canada N5P 1H2
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