

CLARK

**Industrial Truck
Division**



OPERATOR INSTRUCTIONS

**CLARKLIFT
ROS-25-40**

BOOK NO. OI-322, 1st REV.

ELECTRIC RIDER ORDER SELECTOR

TABLE OF CONTENTS

Foreword	Page 1
Model Views	Pages 2 & 3
Safety	Pages 4 thru 12
Operator's Compartment	Page 13
Before Operation Checks	Pages 14 thru 16
Operations	Pages 17 thru 20
Handy Reference Data	Page 21

FOREWORD

This manual will help the "Qualified Operator" become familiar with the vehicle's major components, its operating controls, special features and the function(s) of each.

This publication is not a training manual but rather, a guide to help the "Qualified Operator" to safe and efficient operation of a Clark Forklift Truck.

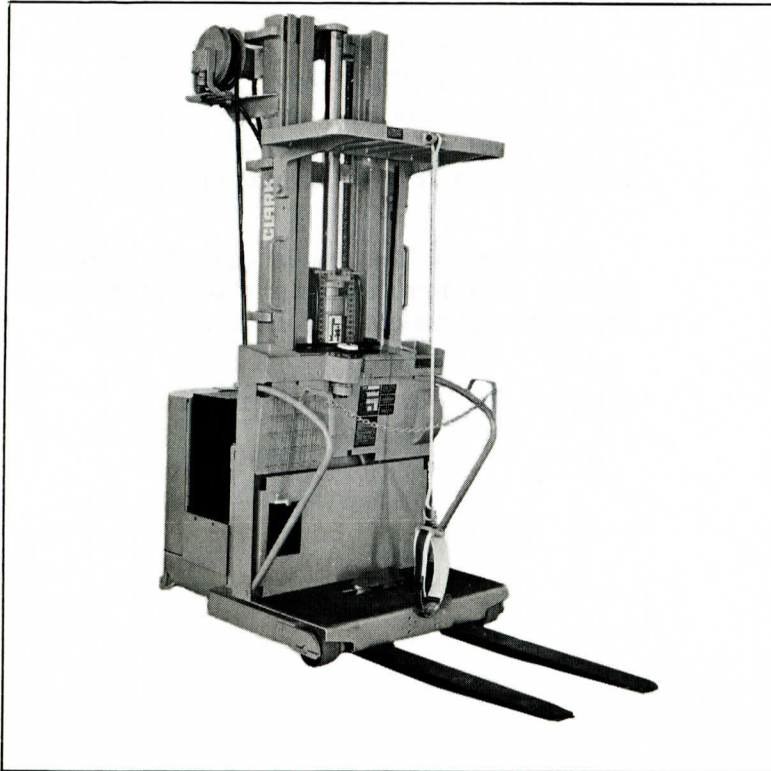
Manuals to help select and train qualified operators are available at your Clark Dealer.

Clark Forklift Trucks are built to take hard work not abuse. They are built to be dependable, but — as with any other vehicle — they are only as good as the man behind the wheel and the men responsible for maintaining them.

Illustrations in this manual guide the operator through correct procedures of checking, starting, operating and stopping the lift truck.

Read it — Study it — Keep it handy.

ROS-25



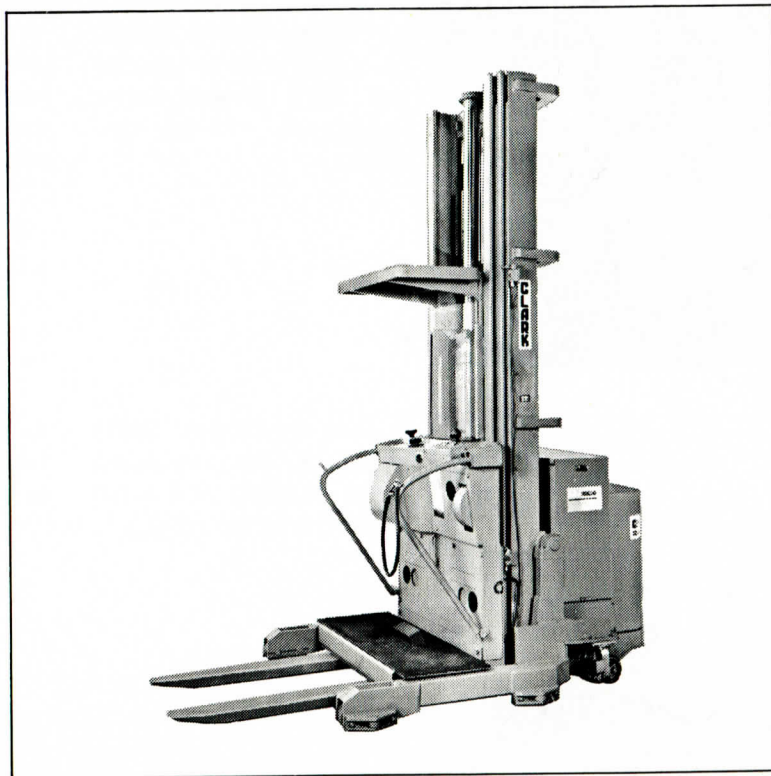
SPECIFICATIONS

Model: ROS-25
Weight: (Without Battery and With
[1829mm/3658mm] 72"/154"
FFL/TSU Upright) [1910Kg.] 4,210 lbs.
Rated Capacity: [1250 Kg] 2500 pounds at
[610mm] 24" load center (Computed from
front edge of operator's platform). This
capacity applies to upright MFH up to and
including [3912mm] 154".
Travel speed empty [8.0Km/h] 5.0 MPH
Travel speed loaded [6.8Km/h] 4.2 MPH
Lift speed empty [.34m/s] 66.0 FPM
Lift speed loaded [.22m/s] 44.0 FPM
Lower speed empty [.33m/s] 65.0 FPM
Lower speed loaded [.30m/s] 60.0 FPM
Battery (Standard) [24 volt] 24 volt
Length (with [1016mm] 40" forks)
[2643mm] 104-1/16"
Wheelbase [1311mm] 51-5/8"
Width [1067mm] 42"
Turning radius [1543mm] 60-3/4"

ROS-40

SPECIFICATIONS

Model: ROS-40
Weight: (Without Battery and With
[2108mm/4191mm] 83/165"
FFL/TSU Upright) [2722Kg.] 6,000 lbs.
Rated Capacity: [2000 Kg] 4000 pounds at
[610mm] 24" load center (Computed from
front edge of operator's platform). This
capacity applies to upright MFH up to and
including [4191mm] 165".
Travel speed empty [6.8Km/h] 4.2 MPH
Travel speed loaded [5.8Km/h] 3.6 MPH
Lift speed empty [.25m/s] 50.0 FPM
Lift speed loaded [.15m/s] 30.0 FPM
Lower speed empty [.19m/s] 37 FPM
Lower speed loaded [.27m/s] 54 FPM
Battery (Standard) 24 volt 24 volt
Length (with [1016mm] 40" forks)
[2815mm] 110-13/16"
Wheelbase [1743mm] 68-5/8"
Width [1346mm] 53"
Turning radius [1975mm] 77-3/4"



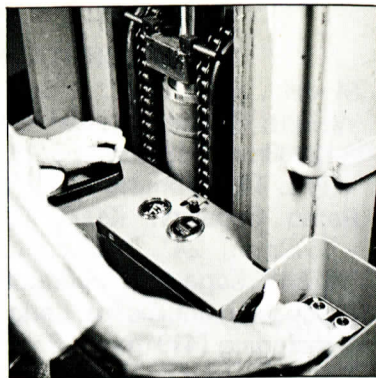
Safety



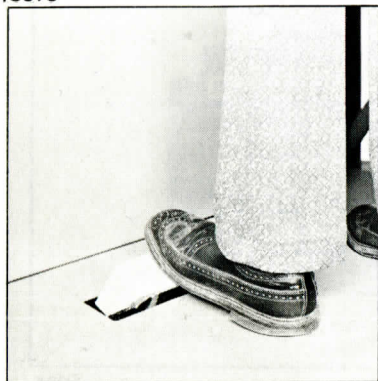
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1. Only thoroughly trained personnel should be authorized to operate the ROS (Rider Order Selector) model machines.

2. Learn how your truck is operated. Know its safety devices, how they function and how the special attachments, if any, work.

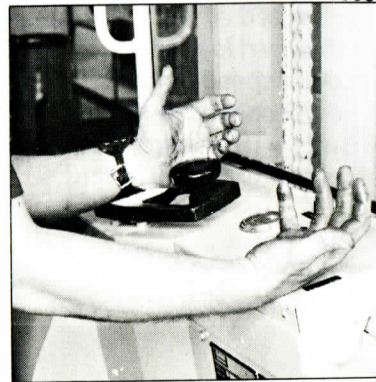


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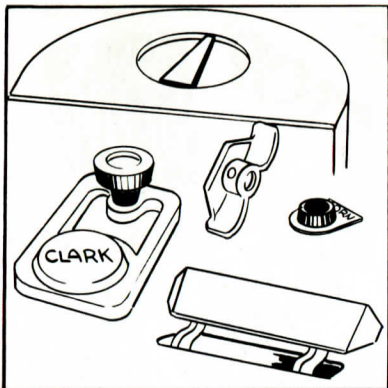


3. The wearing of safety shoes is recommended. Dress suitably and avoid loose fitting clothing.

4. Avoid operating truck with wet or greasy hands or shoes.

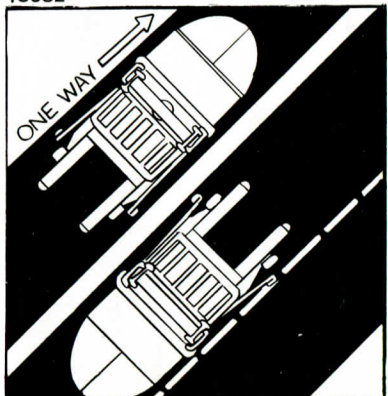


Safety



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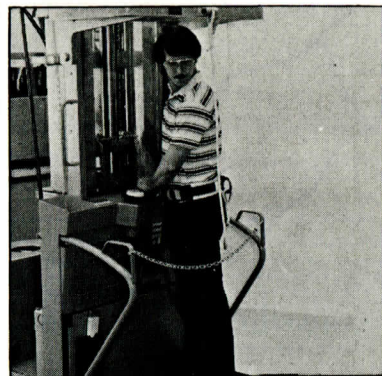
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Code: OI-322 REV. SEPT. 81

5. Test brakes, steering controls, horn, travel speed limit switch and devices for proper operation. Report any faulty performance immediately, and do not operate the machine until it is properly repaired.

6. Always look all around truck before moving it in any direction. Then remember to start and stop slowly.



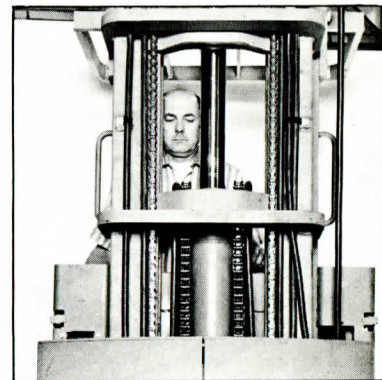
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7. Operate truck only in designated truck routes and keep operating aisles clear.

One-way aisles are recommended, if this is not practical in your operation, heed highway regulations and drive to right of aisle centerline.

8. Always be alert for pedestrians, other vehicles or obstacles in path of travel.



Safety

9. Sound horn at all corners, exits, entrances and when approaching pedestrians.
10. Always obey all posted traffic rules and warning signs.

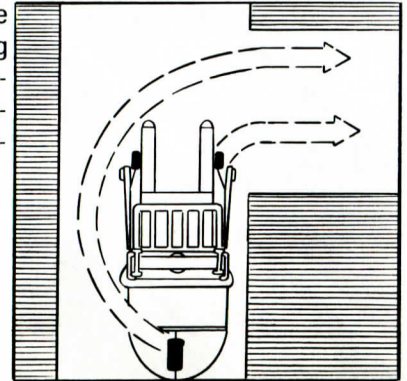
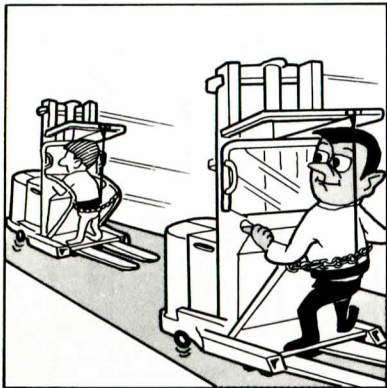


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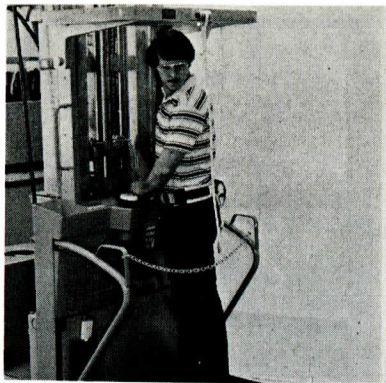


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11. Maintain a safe distance from the truck ahead of you at all times. Assure ample distance to stop smoothly and safely.
12. Be careful of drive end swing when turning while in reverse. Be cautious of trail frame direction of travel when turning while in forward.



Safety



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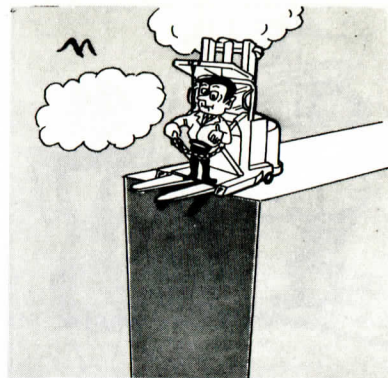
13. Always be aware of the position of the fork tips when truck is in motion.

15. Never use your truck to push or tow another. Never allow your truck to be pushed or towed by another.

Should a truck become disabled and require moving, notify the proper authority immediately.

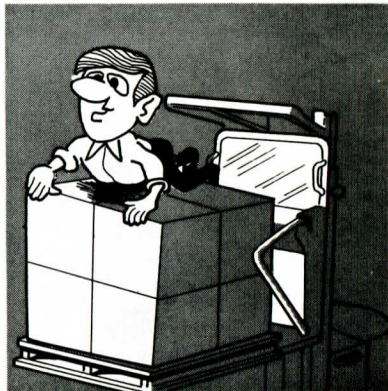
14. The ROS truck can easily tip over. Be extremely cautious when operating near edge of loading dock or ramp, and do not operate on slopes or ramps.

16. Never allow stunt riding or indulge in horseplay while operating a ROS (Rider Order Selector) model machine.



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Safety



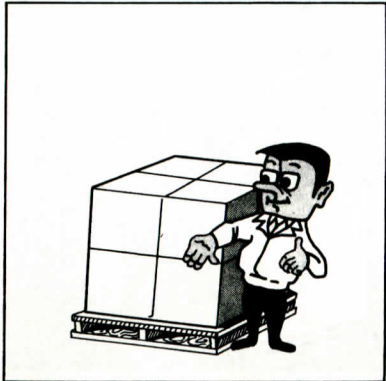
17. Never carry unauthorized passengers.

18. Know the rated capacity of your truck and never exceed it or the rated capacity of the attachment if the truck is so equipped.

CLARK EQUIPMENT		1	
INDUSTRIAL TRUCK	DIVISION	BATTLE CREEK MICH	
MODEL NO.		2	TYPE 3
SERIAL NO.			
ATTACHMENTS			
LOAD		4	
C	G		
A	B		
FLOOR		5	
APPROX. WT. ALL TRUCKS		LESS BATT. - ELECTRICS	
APPROX. WT. ELECTRICS ONLY		WITH MAX. BATT. WT.	
BATTERY WT.		MAX	MIN
BATTERY CAPACITY		AH	NO
		LBS	VOLTS
		7	8
FOR OTHER CAPACITIES CONSULT MANUFACTURER AS RELEASED FROM FACTORY THIS TRUCK MEETS THE DESIGN SPECIFICATIONS ESTABLISHED IN AMERICAN NATIONAL STANDARD FOR POWERED INDUSTRIAL TRUCKS			
PART II ANSI B 56.1 1969 PT NO 2315709			

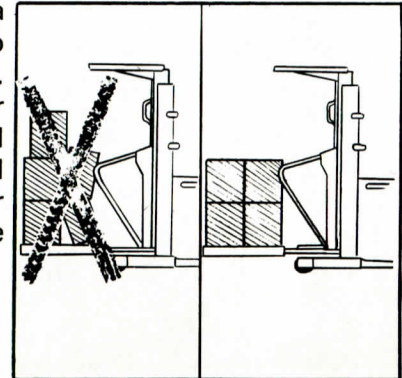
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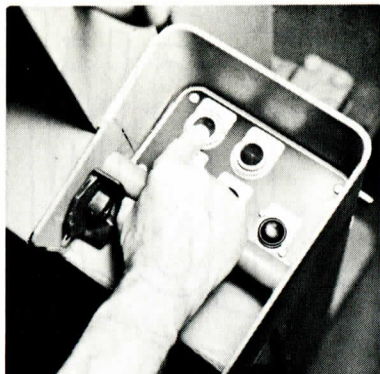


19. Thoroughly inspect load to be moved for overload and/or poor balance. If the safety of the load is questionable, Don't Move It.

20. Unstable loads are a hazard to you and to your fellow workers. Make certain that your load is well stacked and . . . evenly positioned across both forks. Never lift a load with only one fork.



Safety



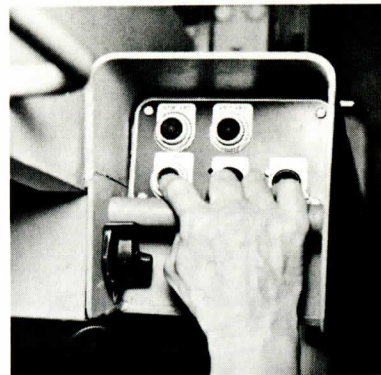
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21. Always make certain of unobstructed overhead clearance. Then lift gradually and smoothly.

Two lifting speeds are available and may be selected and utilized as operating conditions warrant.

22. Load may be lowered by pressing "Lower" button.

NOTE — Should the lift system (Paragraph 21) malfunction, for any reason, and continue to lift when button is released — press and hold "Lower" button to activate a lowering valve and stop the lifting of the load.

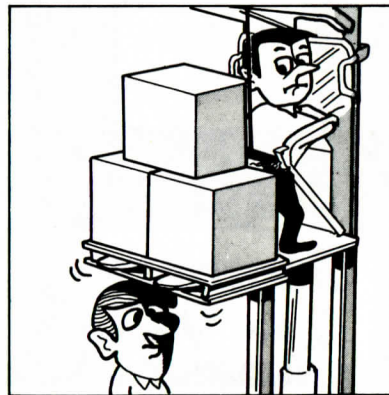


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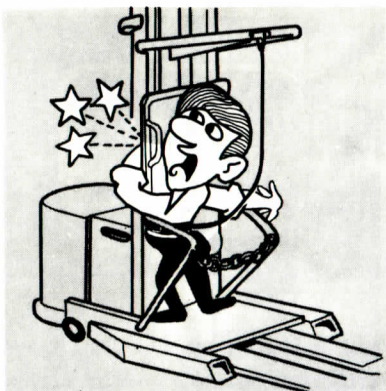


23. Always travel with load near the floor. Never lift or lower while truck is moving in any direction.

24. Do not permit anyone to stand or walk under elevated forks or attachment if truck is so equipped.

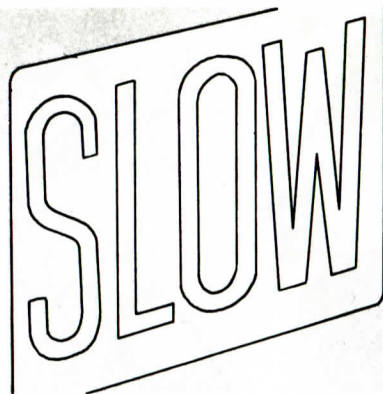


Safety



25. Never reach around or over windshield to place hands or fingers on upright. Stay in proper operator's position and keep hands and arms within the confines of the operator's compartment.

26. Slow down for turns, ramps, bumps, cross aisles, congested areas, wet or slippery floors and at all times when visibility is restricted.

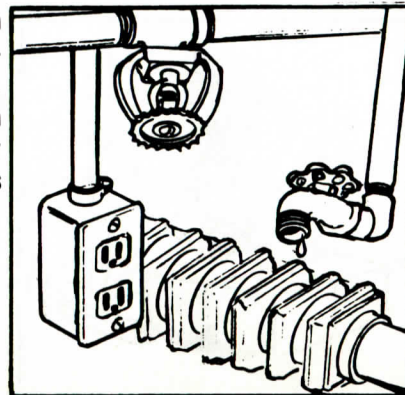


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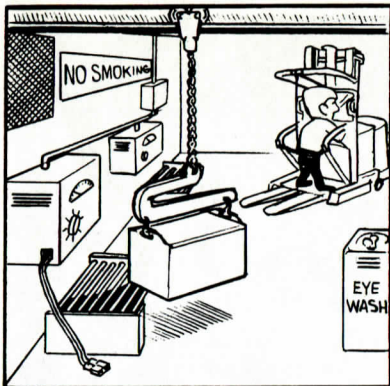
27. Know and observe floor load limits and overhead clearances in all operating areas.

28. Use caution when placing loads, or traveling, near water pipes, electrical wire, steam pipes, heaters or any other fragile or dangerous equipment or material.

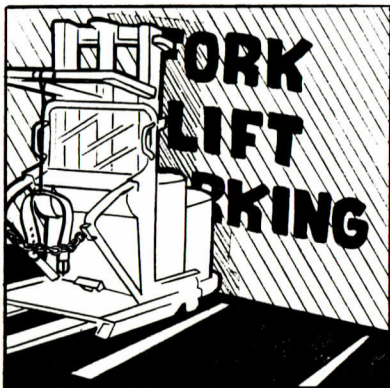


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Safety



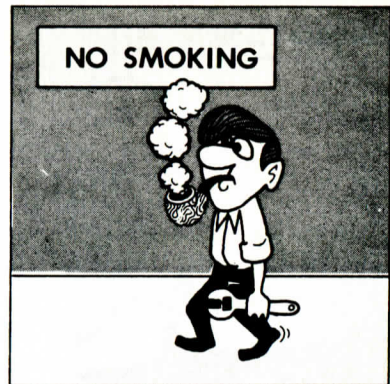
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29. Batteries should be serviced and recharged only in designated charging areas and only by personnel trained in safe battery servicing practices.

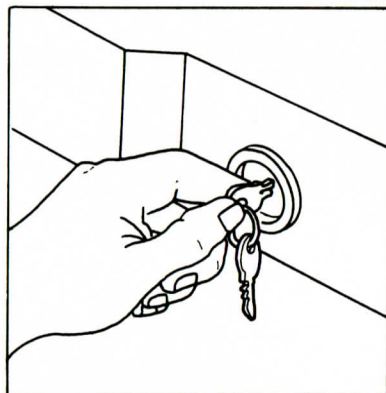
30. Never smoke or allow anyone to smoke in areas where batteries are being charged or in areas where fuel or other flammable fluids are used or stored.



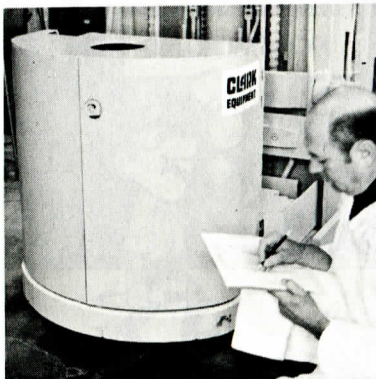
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31. Park trucks in authorized areas only. Lower forks to floor.

32. When leaving truck make certain that circuit switch has been turned to "OFF" and key has been removed. Remember to block wheels if truck is left on an incline.



Safety

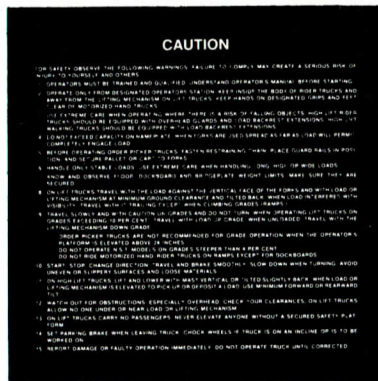


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33. A scheduled planned maintenance and lubrication program should be followed.

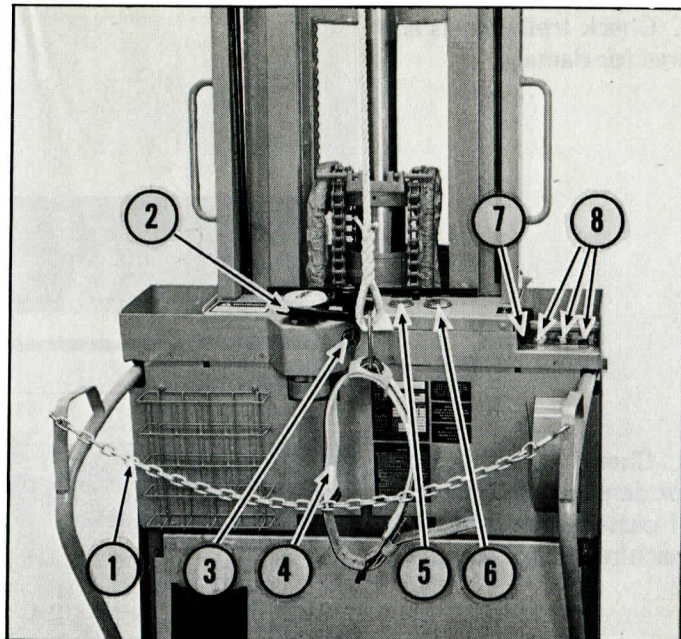
All adjustments and repairs should be performed by thoroughly trained and authorized personnel only.

34. Prominently placed on every Clark truck is a list of basic rules for safe operation. These rules are for your protection. Be familiar with them.



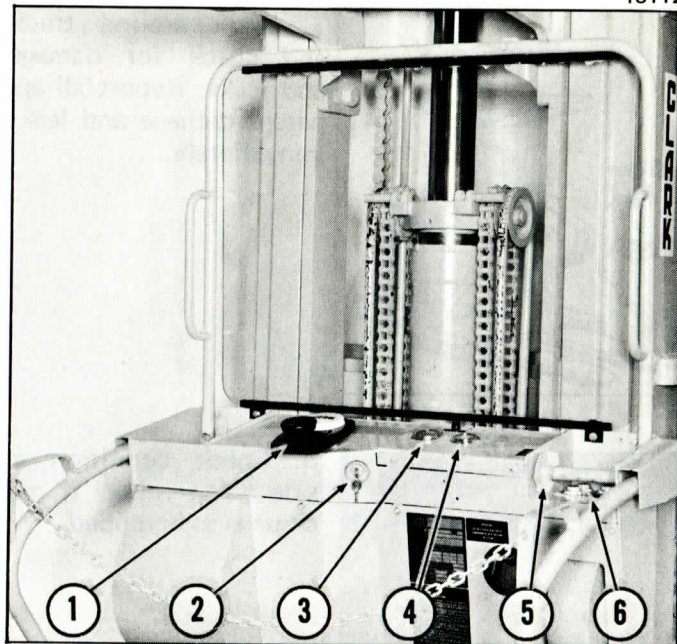
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ROS 25 Console



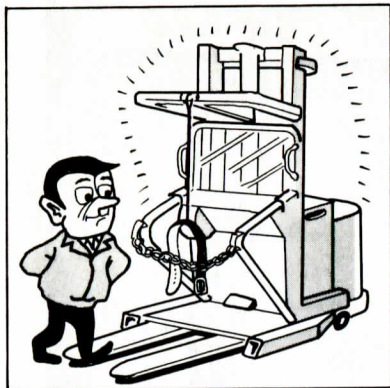
- | | |
|---------------------------|------------------------------------|
| 1. Safety Chain | 5. Battery Discharge Indicator |
| 2. Steering Hand Wheel | 6. Hour Meter |
| 3. Circuit Locking Switch | 7. Speed, Forward & Reverse Switch |
| 4. Safety Harness | 8. Lift, Lower & Horn Buttons |

ROS 40 Console



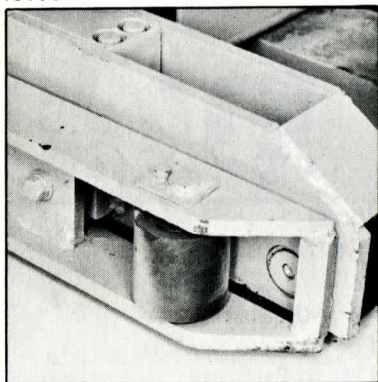
- | |
|------------------------------------|
| 1. Steering Hand Wheel |
| 2. Circuit Locking Switch |
| 3. Hour Meter |
| 4. Battery Discharge Indicator |
| 5. Speed, Forward & Reverse Switch |
| 6. Lift, Lower and Horn Buttons |

Before Operation



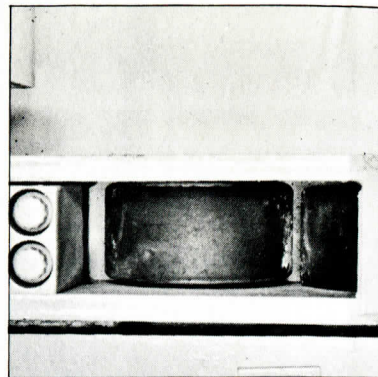
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1. Walk around truck and check for damage and leaks. Report all apparent damage and leaks immediately.

2. Check trail wheels and tires for damage.



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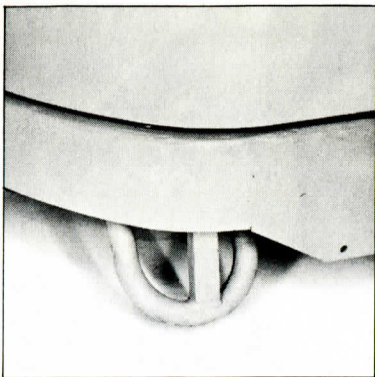
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3. Check condition of side guide rollers if machine is so equipped.

4. Check swivel casters for damage and condition of caster wheel and tire if machine is so equipped.

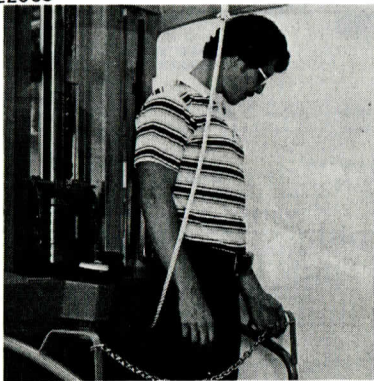


Before Operation



5. Check condition of stabilizer skids if machine is so equipped.

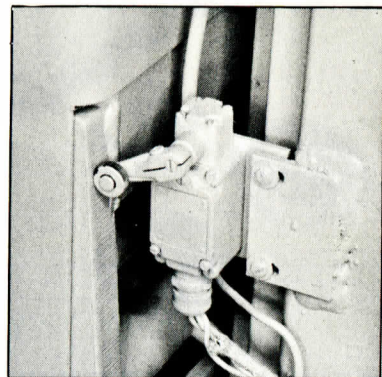
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7. Enter operator's compartment, hook the chain to the safety bars, and put the safety belt on.

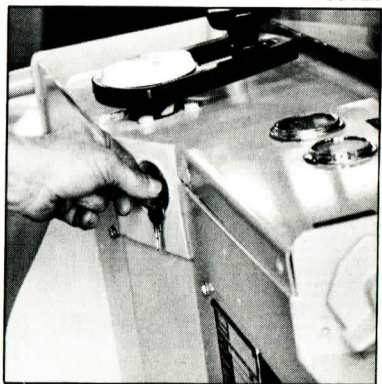
6. Check condition of 1-A cut-out switch. Make certain that switch arm is operable and that roller is in contact with cam portion of carriage.

(1-A cut-out switch is travel speed limit switch located on lower right hand upright outer rail.)

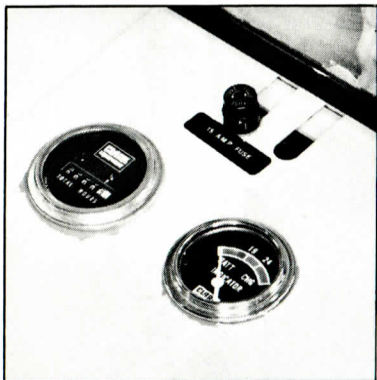


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8. Insert key in circuit locking switch and turn key to "ON" position.



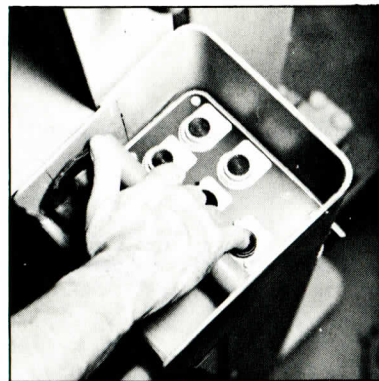
Before Operation



9. Check battery charge indicator (if truck is so equipped) and hour meter. Make certain that they are undamaged and functioning properly.

If indicator needle does not remain in the "Green" during operation — Stop truck as battery does not have sufficient charge.

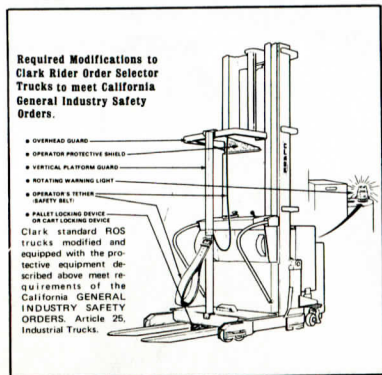
10. Press horn button to determine if the horn is operational.



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11. Check illustrated optional features to insure that they are undamaged and functioning properly.



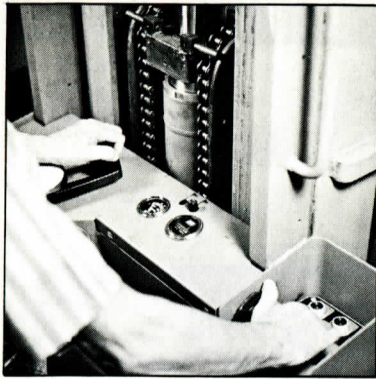
12. Each shift operator must complete the daily check list (available from your Clark dealer). Make all the checks listed and give completed check list to designated authority.

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CLARK (ELECTRIC)	
ELECTRIC TRUCK DRIVER'S DAILY CHECKLIST Check Before Start Of Each Shift	
Date _____	
Truck No: _____	Supervisor's OK _____
Operator: _____	
Hour Meter Reading: _____	
Start of Day _____	End of Day _____ Hrs. for Day _____
<input checked="" type="checkbox"/> Boxes Accordingly <input type="checkbox"/> OK <input type="checkbox"/> Needs Attention or Repair	
Visual Checks:	Operational Checks:
Obvious damage and leaks	Horn
Tire condition	Steering
Battery plug connection <i>Note: Be sure the battery plug connection is tight.</i>	Service brakes
Head and tail lights	Battery Load Test <i>Note: Watch battery indicator while holding lift lever on full back tilt. If needle falls to red area, battery doesn't have sufficient charge to operate truck properly.</i>
Warning lights	
Hour meter	
Other gauges and instruments	Parking brake
Battery Discharge indicator <i>Note: Key on, needle should indicate in green area.</i>	Seat brake
	Hydraulic controls

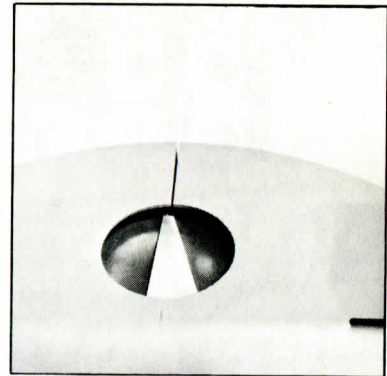
Operation



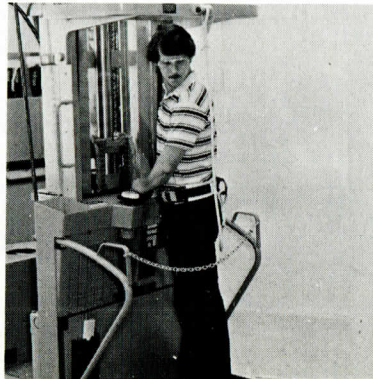
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13. Assume proper ROS operator's position with left hand on steering hand wheel and right hand on hand grip at control cavity.

14. Turn steer hand wheel until steering direction indicator points in the desired direction of forward travel or opposite the desired line of reverse travel.

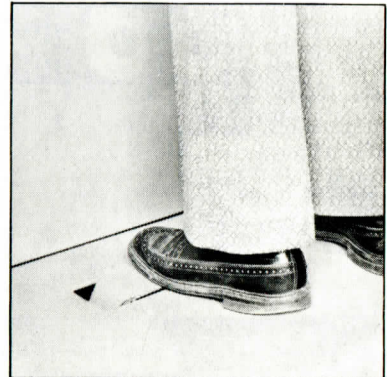


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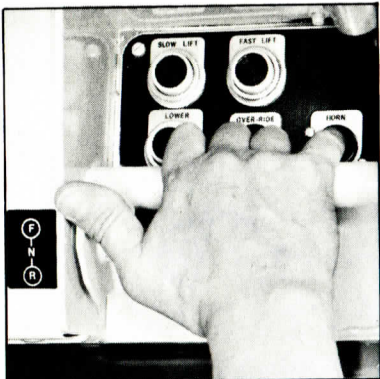


15. Look in all directions to insure that path of travel is unobstructed.

16. Place left foot on brake pedal and depress. This will release brake and activate a switch making power available to the drive motor through the directional switch.

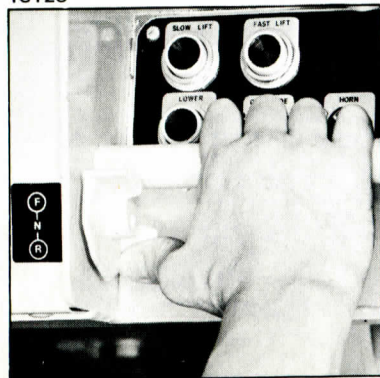


Operation



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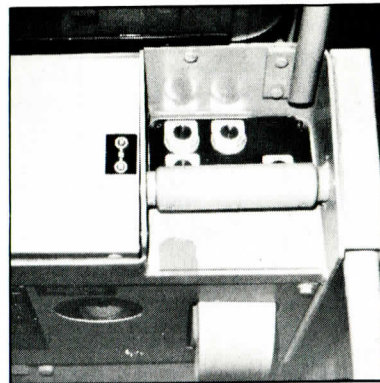


17. Place thumb of right hand on direction control switch "wing" (top "wing" for forward and bottom "wing" for reverse) for the desired direction of travel.

19. Carefully depress selected switch wing (or twist grip handle on some models) to start travel in the desired direction. Further pressing (or twisting) will increase travel speed.

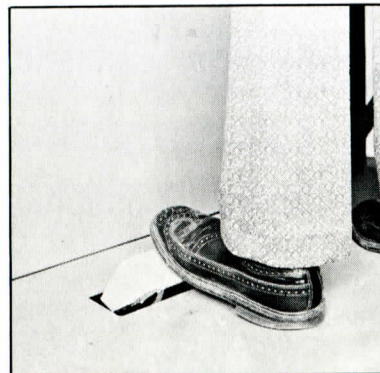
18. Some models are equipped with "twist grip" directional and speed control. On these models twist grip forward or backward for desired direction of travel.

20. To stop truck let directional and speed control switch return to neutral position by releasing pressure on switch "wing" or twist grip and lift foot from brake pedal. This will activate switch cutting power to drive motor and apply brakes.

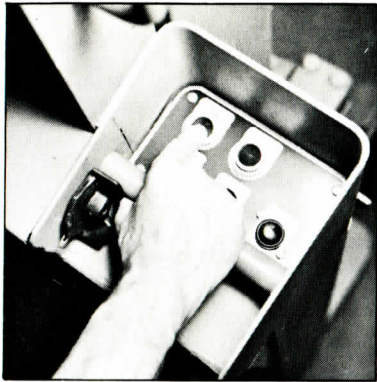


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Operation



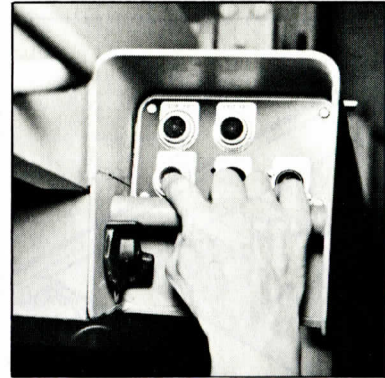
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21. Before lifting make certain of overhead clearance then press lift button.

Two lifting speeds are available (fast lift and slow lift) and may be selected and utilized as operating conditions warrant.

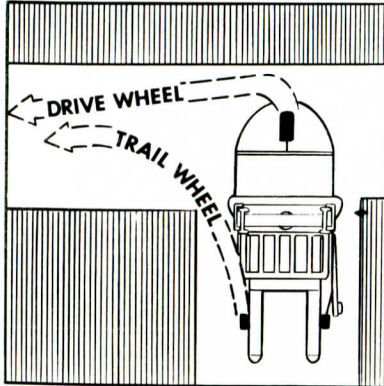
22. To lower load press button marked lower.

NOTE — Should the lift system (Paragraph 19) malfunction, for any reason, and continue to lift when lift button is released, press and hold "LOWER" button to activate a lowering valve and stop the lift.



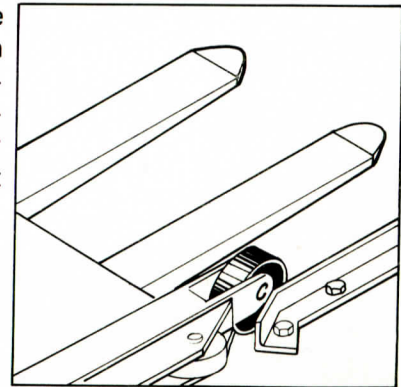
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13130



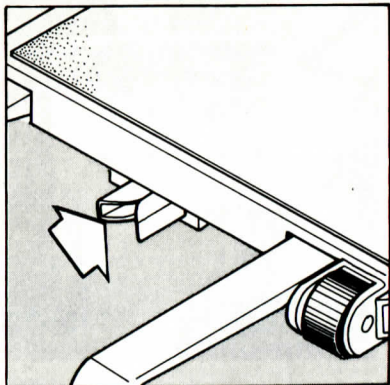
23. Use caution when making right or left turn into aisle. Remember that trail wheels do not follow the turn path of the drive wheel. They will tend to "cut" the corner.

24. On trucks which are optionally equipped with side guide rollers, particular attention must be applied to insure aisle entry is made load wheels first with guide rollers parallel to guide rail.



13131

Operation



13132

25. On models which are optionally equipped with a pallet lock mechanism make certain that lock is secure before attempting lift.

NOTE

Some models are optionally equipped with a no slack switch, which stops current to the drive motor if the lift chains should go slack. If your truck is not equipped with it, make sure the forks are clear of racks, or other obstruction, *BEFORE* pushing the 'lower' button, to prevent the platform and load from falling.

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. _____

CLARK EQUIPMENT COMPANY
INDUSTRIAL TRUCK DIVISION
CUSTOMER SERVICES
BATTLE CREEK, MICHIGAN 49016

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