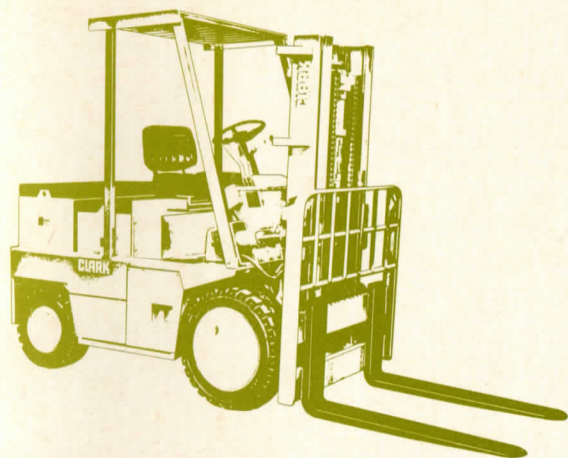


CLARK

**Industrial
Truck
Division**



OPERATOR INSTRUCTIONS

**ELECTRIC YARDLIFT
EC500Y 60/70 MODEL
72 VOLT**

Book No. OI-399

6000 LB. (2700 Kg) OR 7000 LB. (3100 Kg) RATED CAPACITY

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Major Component Identification	2
Safe Operating Rules and Practices	3 thru 13
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FOREWARD

This manual will help the "Qualified Operator" become familiar with the battery powered Rider type lift truck, its 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 the Rider type, battery powered, Clark Lift Truck.

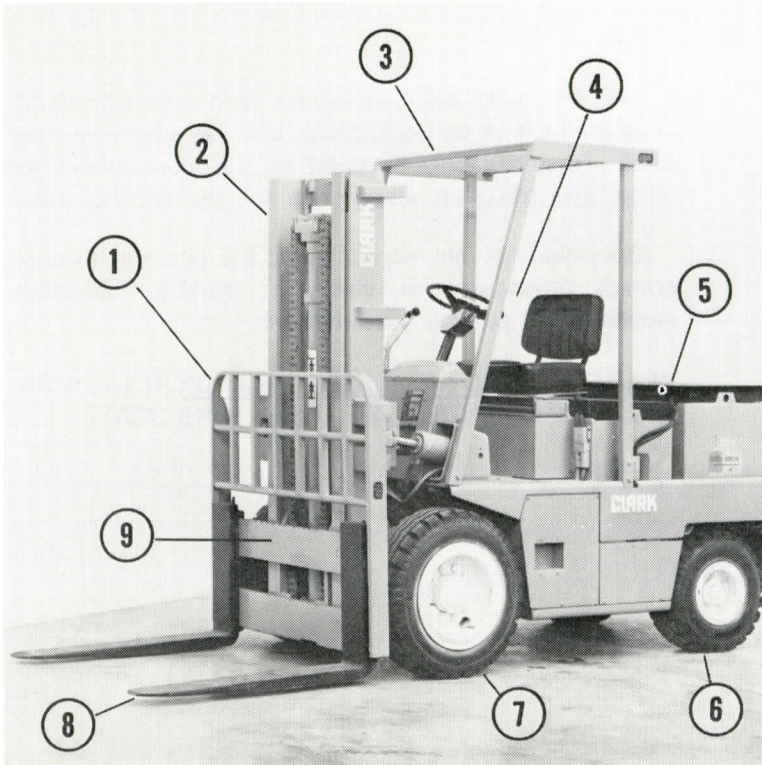
Operator training manuals are available thru your Clark Dealer.

Clark lift trucks are built to take hard work not abuse. They are built to be dependable, but - as with any other truck - 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, stopping and parking the lift truck.

READ IT — STUDY IT — KEEP IT HANDY IN THE MANUAL POCKET UNDER THE OPERATORS SEAT.

KNOW YOUR TRUCK



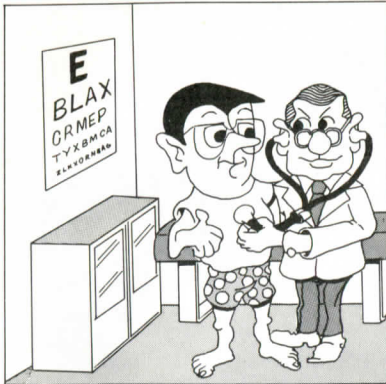
1. Load Back Rest Extension
2. Upright Assembly
3. Overhead Guard Assembly
4. Operators Compartment
5. Battery Compartment
6. Steer Wheel and Tire
7. Drive Wheel and Tire
8. Load Forks
9. Fork Carriage

17846

ELECTRIC YARDLIFT
EC500 Y 60/70 Model
72 Volt

6000 Lb. (2700 Kg) OR 7000 Lb. (3100 Kg)
Rated Capacity

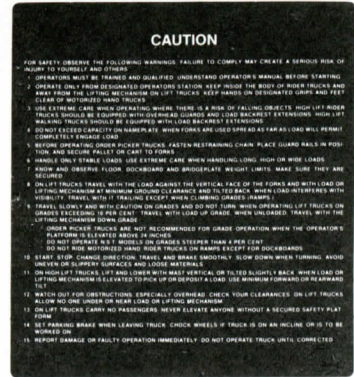
SAFETY



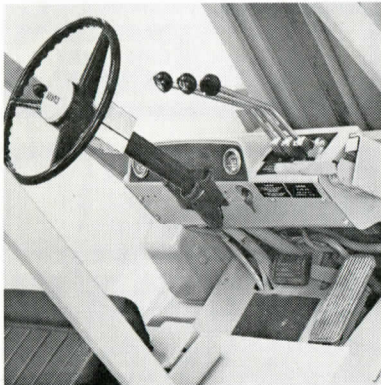
13696

1. Only physically qualified and thoroughly trained personnel should be authorized to operate the Clarklift Electric EC500 Y 60/70 Model Machines.

2. Prominently placed on every Clark truck is a list of basic rules for operation. These rules are for the protection of you and others in your operating area. Be familiar with them.



13110



17822

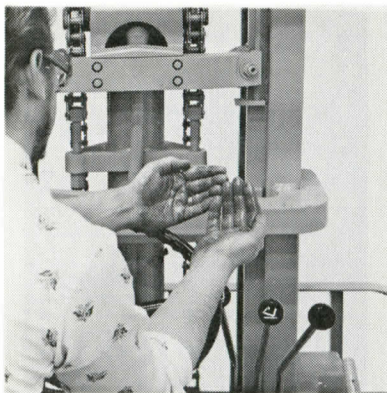
3. Learn how your truck is operated. Know its safety devices, how they function and how the special attachments, if any, work.

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



17856

SAFETY



17823

5. Never operate a lift truck with wet or greasy hands or shoes.

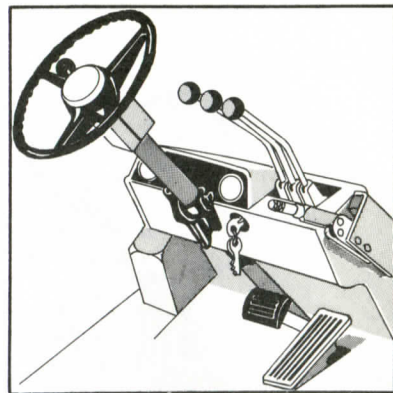


17824

Page 4

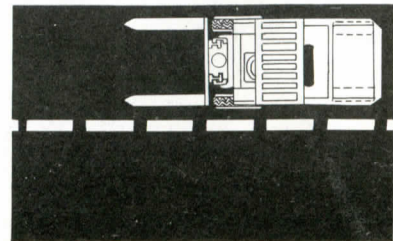
7. Always look all around the truck before moving it in any direction. Then remember to start and stop slowly and smoothly.

6. Before operating any lift truck, test the horn, brakes, hand operated parking brake, steering, lift-tilt controls, directional controls and special devices for proper operation. Report any improper operation to the proper authority.



17857

8. Operate the truck only in designated truck routes and keep operating aisles clear. One-way traffic is recommended. If this is not practical in your operation heed highway regulations and drive to right of aisle centerline.



17858

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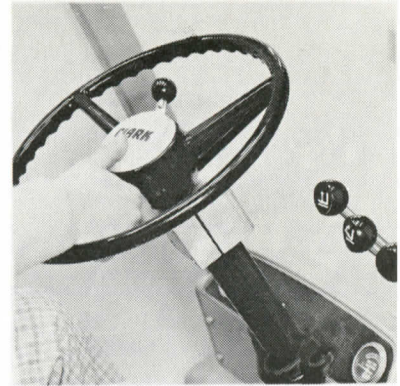
SAFETY



17825

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

10. Sound horn at all corners, exits, entrances and when approaching pedestrians or by-standers.



17826

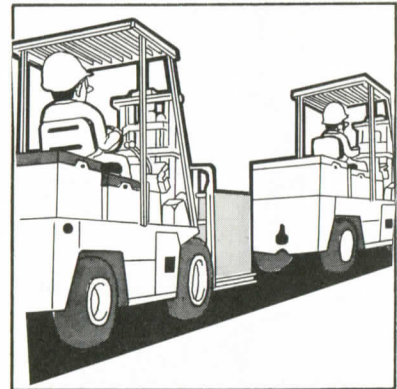


13087

11. Obey all posted traffic rules and warning signs.

12. Maintain a safe distance from the truck ahead of you at all times.

Assure ample distance to stop smoothly and safely should the need arise.



17859

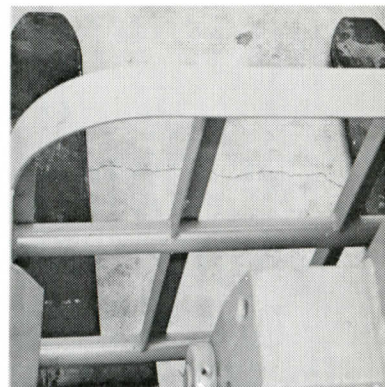
SAFETY



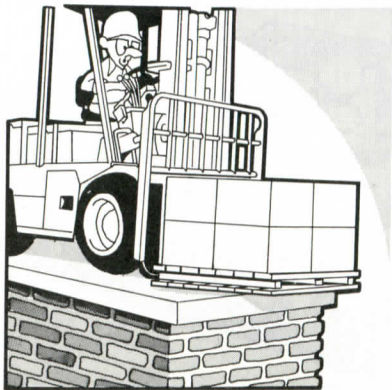
17860

13. Be aware of rear end swing and be alert to prevent rear end swing damage to material in your operating area.

14. Be aware of the position of your fork tips when the truck is in motion. Be alert to prevent striking anything with fork tips.



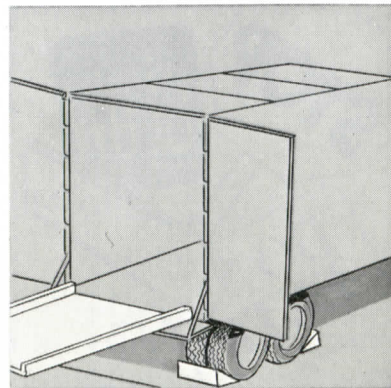
17827



17861

15. Be extremely cautious when operating truck near edge of loading dock.

16. Make sure vehicle being entered has been blocked to prevent accidental roll. Bridge plates must have adequate strength, width, guard rails each side (minimum 3" high recommended), and be properly secured.



13146

SAFETY



17862

17. Never allow stunt riding or indulge in horse-play while operating a fork lift truck.

This is dangerous and could result in serious injury or severe damage to equipment and material.

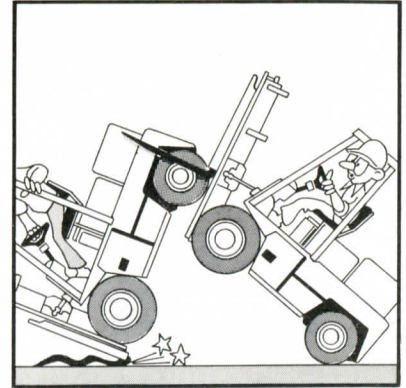


17864

19. Never carry unauthorized passengers. The quick response of a lift truck may cause riders to fall off. Besides, they distract you and this could be dangerous.

18. 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.



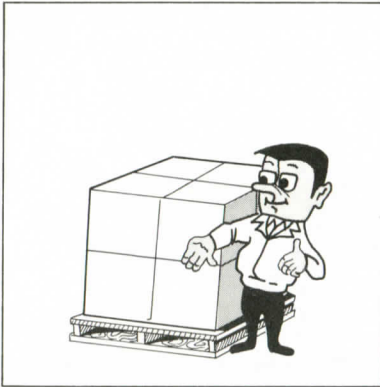
17863

20. Know the capacity of your truck and its attachment (if any) and never exceed it. Study your truck data capacity plate and learn the facts stamped in areas 1 thru 9.

CLARK EQUIPMENT		1	
INDUSTRIAL TRUCK DIVISION		2	
BATTLE CREEK MICHIGAN	GEORGETOWN KENTUCKY		
MODEL NO.		3	4 TYPE
SERIAL NO.		3	
ATTACHMENTS			
5			
CAPACITY WITH ATTACH LISTED ABOVE OR WITH FORKS - UPRIGHTS VERTICAL			
LOAD		C	
C.G.		C	
A		B	
FLOOR			
APPROX. WT. ALL TRUCKS		7	
APPROX. WT. ELECTRICS ONLY		WITH MAX. BATT. WT.	
BATTERY WT.		MAX	MIN
BATTERY CAPACITY		A.H.	8
		LBS	9
			VOLTS
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			

18616

SAFETY



13094

21. Thoroughly inspect all loads to be moved for overload and/or poor balance. If the stability of a load is questionable, **don't move it.**

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



17869



17828

Page 8

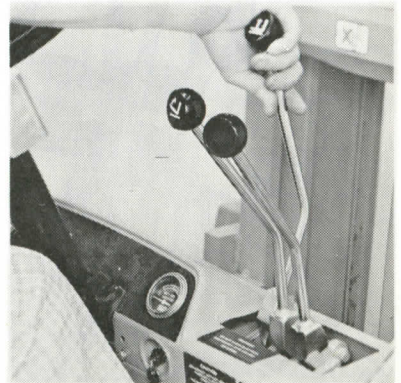
23. Before lifting check to insure adequate unobstructed overhead clearance.

Gradually and smoothly pull back on lift control lever to start lift.

Smoothly return control lever to neutral position to stop lift at desired point.

24. Push forward on control lever to lower load.

Descent of load may be stopped at desired level by smoothly returning control lever to neutral position.



17829

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SAFETY

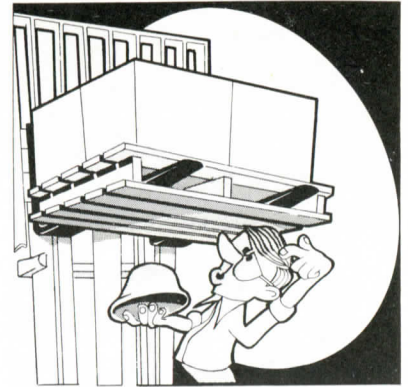


17870

25. Always travel with load near floor and upright tilted back to cradle load.

Never lift or lower load while truck is in motion.

26. Never permit anyone to stand or walk under elevated forks or other load engaging attachments if machine is so equipped.



17635



17825

27. Remain seated at all times and keep head, hands, arms, feet and legs within the confines of the operators compartment.

Never reach into the upright for any reason.

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



13103

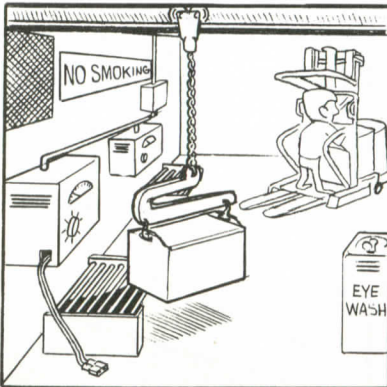
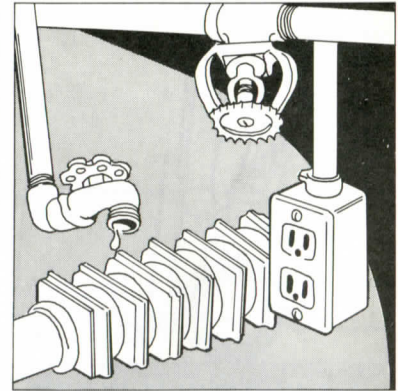
SAFETY



13102

29. Know and observe floor load limits and overhead clearances in all operating areas. Make certain that floors of box-cars, trucks, trailers and elevators are adequate before entering.

30. Use caution when placing loads or traveling near water pipes, overhead sprinklers, electrical wiring, steam pipes, heaters or other fragile or dangerous equipment or material.

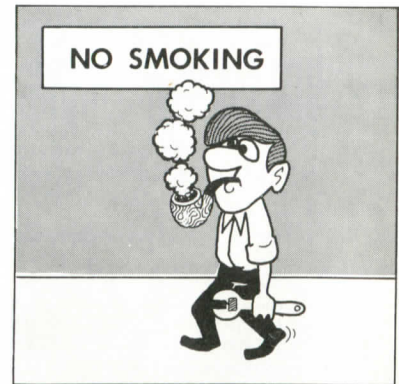


13105

Page 10

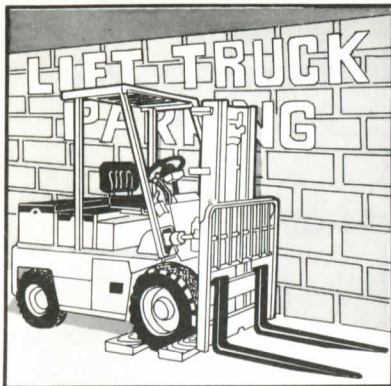
31. Batteries should be serviced or recharged only in designated charging areas and only by personnel thoroughly trained in safe battery servicing practices.

32. Never smoke or allow anyone to smoke in areas where batteries are being charged or in areas where fuels or other flammable fluids or materials are used or stored.



Code OI-399 - May '77

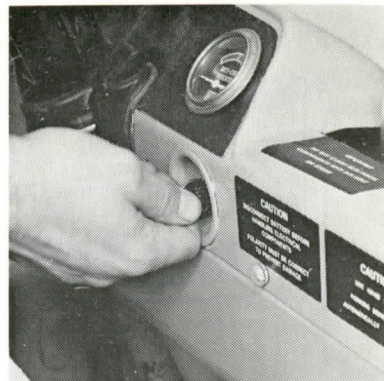
SAFETY



17871

33. Park lift trucks in designated areas only. Lower forks to floor, tilt upright forward, place directional control in neutral, apply hand brake, remove switch key and block drive wheels to prevent roll.

34. If truck is to be left unattended make certain that traffic aisles are unobstructed and leave truck as described in item 33.



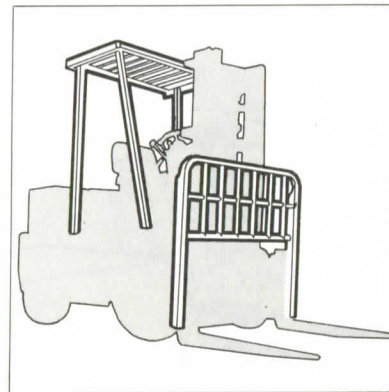
17830



17824

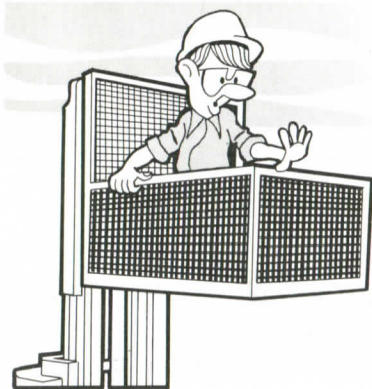
35. When handling bulky loads which, because of their size and shape, restrict your vision - operate your truck in reverse to improve visibility.

36. Overhead guards and load backrest extensions are for your protection. Make certain that they are securely mounted and undamaged before operating your truck.



17868

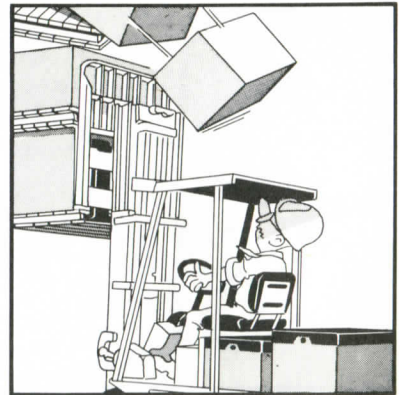
SAFETY



17865

37. Lift trucks are not designed as personnel elevators. If your truck must be used this way always use a properly designed safety platform securely attached to the forks.

38. Don't handle double tiered loads. They're unstable and difficult to control. Even an overhead guard can't fully protect you from heavy objects dropped from these heights.



17866



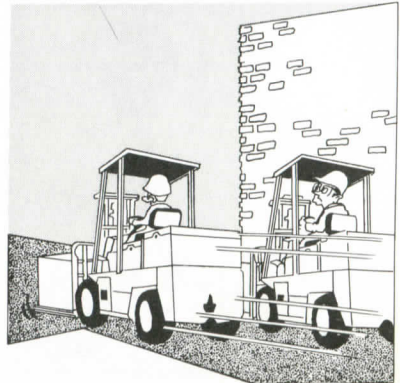
17867

Page 12

39. Overloading is extremely dangerous. You don't have complete control of your truck and you are causing unnecessary wear.

Never add to your counterweight, always break down the load.

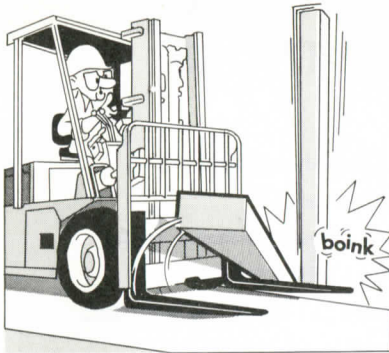
40. Don't pass other trucks traveling in the same direction at intersections, blind spots or other dangerous locations.



17872

Code OI-399 - May '77

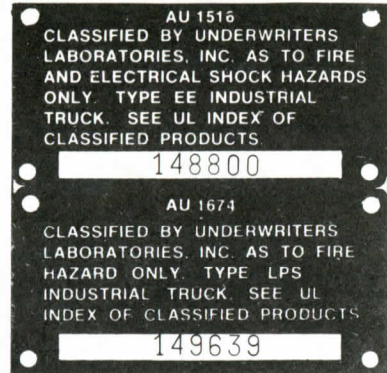
SAFETY



17873

41. Be extremely careful of load end swing when operating with loads of long lumber, pipe, etc.

42. Know the construction type of your truck and make certain that trucks of this type may be operated in restricted areas before entering. Never take an unauthorized truck into restricted or hazardous areas. (Refer to item 20 on page 7).



13178



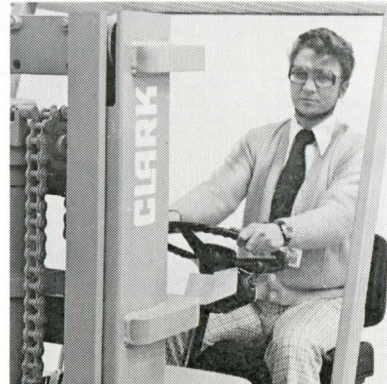
13160

43. Follow a scheduled planned maintenance and lubrication program.

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

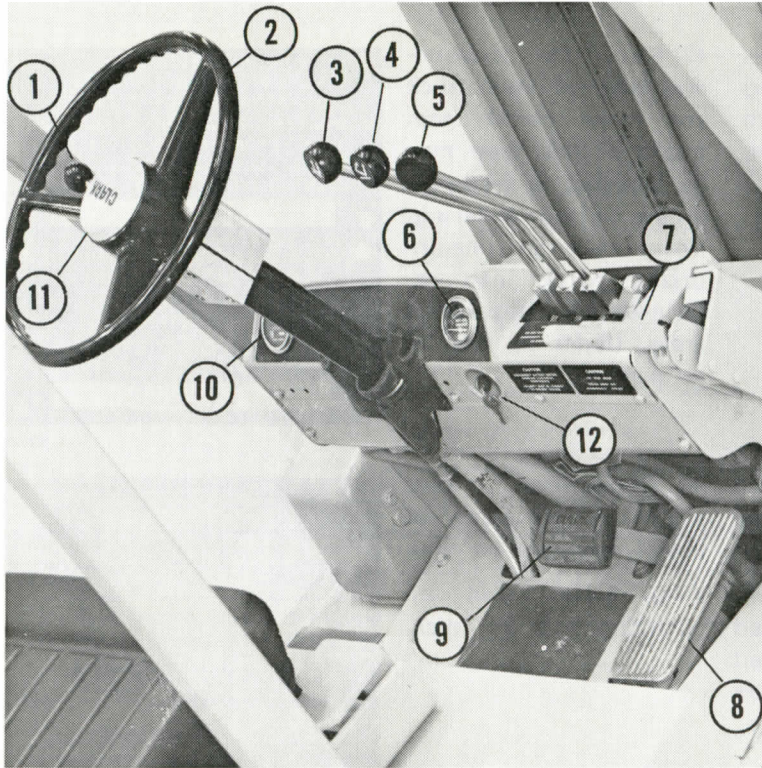
44. **Remember** - your safety and the safety of others depends on you.

Keep your mind on operating your lift truck.



17831

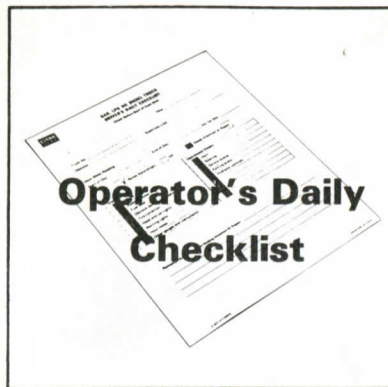
OPERATOR'S COMPARTMENT & CONTROLS



17832

1. Directional Control Switch
2. Steering Handwheel
3. Upright Lift - Lower Control Lever
4. Upright Tilt Control Lever
5. Aux. Valve Control Lever (Optional)
6. Battery Charge Indicator
7. Parking Brake Control Lever.
8. Accelerator (Speed Control) Pedal
9. Service Brake Pedal
10. Hour Meter
11. Horn Button
12. Key Switch

BEFORE OPERATION



15197

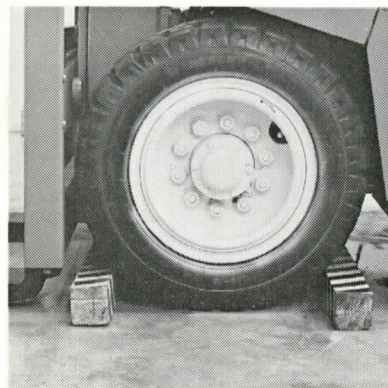
1. Each shift operator must complete an operator's daily check list at the beginning of his shift.

These daily check lists are available from your Clark dealer.

2. Walk around truck and visually check for damage and leaks. Note all damage and leaks on check list.



17874



17833

Code OI-399 - May '77

3. Check condition of drive wheels and tires.

Note any apparent drive wheel or tire damage on the check list.

Check drive tire pressure and adjust, if necessary, to pressures listed on page 24 of this manual.

4. Check condition of steer wheels and tires.

Note any apparent steer wheel or tire damage on the check list.

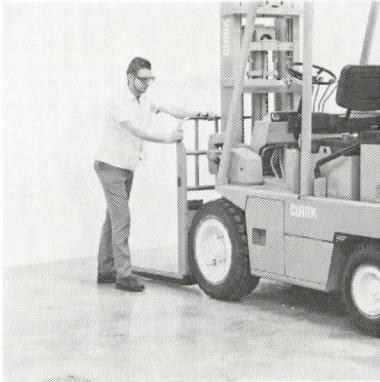
Check steer tire pressure and adjust, if necessary, to pressures listed on page 24 of this manual.



17834

Page 15

BEFORE OPERATION



17849

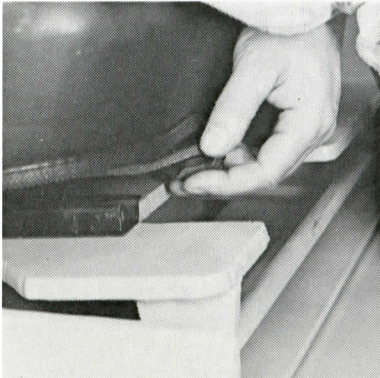
5. Check condition of overhead guard and load backrest extension.

Make certain that they are properly positioned and secured.

6. Remove blocks from drive wheels, carefully enter operators compartment and seat yourself in the operators seat.



17847



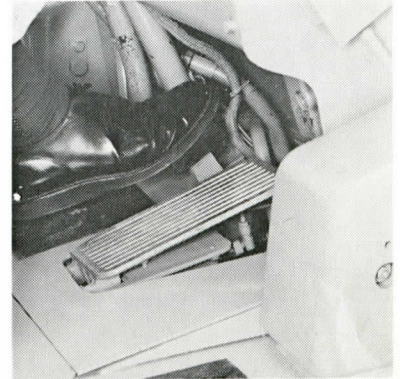
17835

Page 16

7. Operator seat adjustment is accomplished by releasing short lever at right front corner of seat.

Position seat to provide easy access to all hand and foot controls then release lever and make certain that seat locks in desired position.

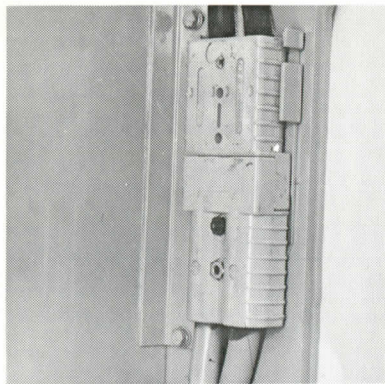
8. Apply pressure to brake pedal with either foot. Pedal should be "firm". If pedal is "spongy" or "fades" under pressure **do not operate the truck.** Report brake deficiency immediately.



17836

Code OI-399 - May '77

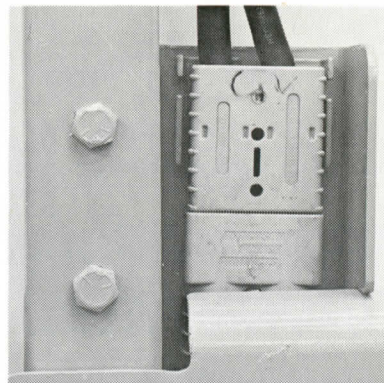
BEFORE OPERATION



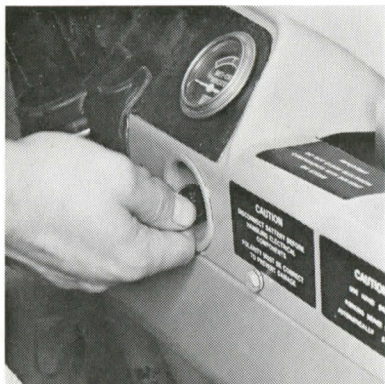
17837

9. Visually check battery connector, to make certain that it has been properly connected and is not damaged.

10. Don't forget - this model truck has two battery connectors. Check both to make certain that they are properly connected and undamaged.



17838



17830

11. Insert key into switch and turn clockwise to "on" position.

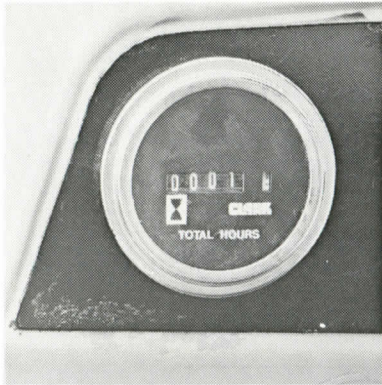
12. Press horn button to determine if horn is operational.

If horn does not function properly, report it immediately to the designated authority.



17826

BEFORE OPERATION



17839

13. Check hour meter to insure that it is undamaged and functioning properly.

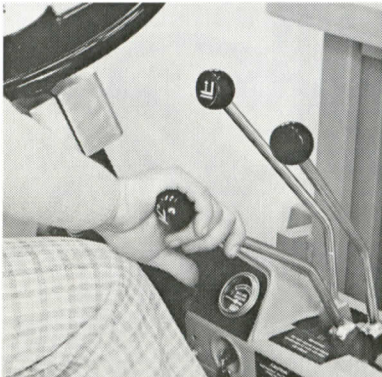
Report any malfunction or damage to the proper authority.

14. Check battery discharge indicator for damage. Needle should remain in green area, check this meter frequently during operation.

Report any malfunction or damage immediately.



13179



17840

Page 18

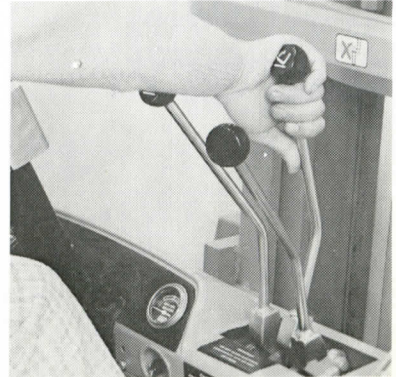
15. Gently pull back on tilt control lever and hold.

When upright reaches full back tilt check position of battery indicator needle and release control lever.

If needle does not remain in green area battery does not have sufficient charge.

16. Push forward on tilt control lever and hold until upright reaches near vertical position.

Release control lever to stop upright tilting action at desired point.



17841

Code OI-399 - May '77

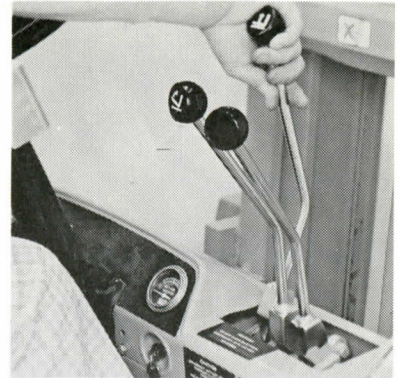
BEFORE OPERATION



17828

17. Check for adequate unobstructed overhead clearance. Gently pull back on lift control lever. Observe upright lift and report any erratic or unusual operation. Release lever to stop lift.

18. Carefully push forward on lift control lever and hold while observing descent of upright. When forks reach desired position, slightly above floor, release the lever to stop upright lowering. Report any erratic or unusual operation immediately.



17829



17842

19. Push parking brake control lever forward to release brake.

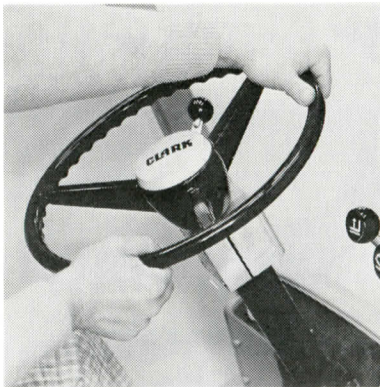
20. Check to insure unobstructed forward path of travel and apply service brakes with either foot.

Push directional control switch lever into position for forward travel.



17843

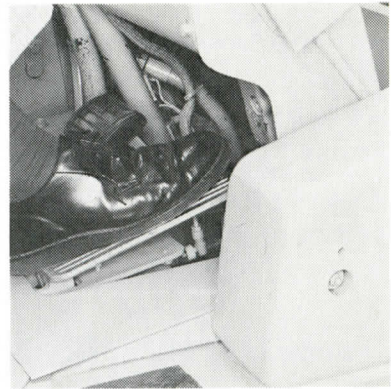
BEFORE OPERATION



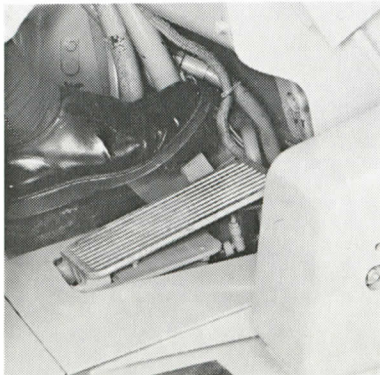
17844

21. Check steering operation by turning hand wheel to right and then to left. Return hand wheel to proper position for desired path of travel. Note any unusual noise or operation.

22. Place right foot on accelerator (release service brake if operating with left foot) and press gently until truck begins to move forward.



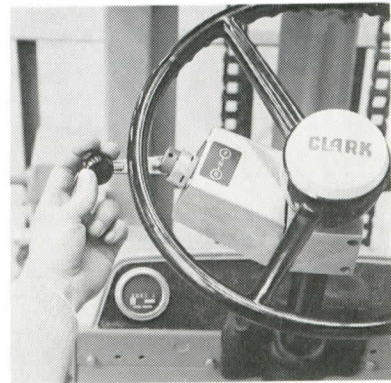
17845



17836

23. Release foot pressure on the accelerator pedal - place right foot on service brake pedal and gently apply foot pressure to bring truck to a smooth stop.

24. Pull the directional control switch lever into position for reverse travel and . . .



17850

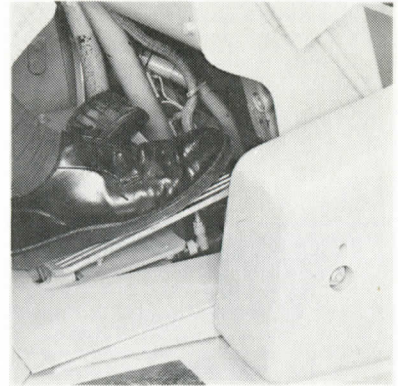
BEFORE OPERATION

25. ...Check to be certain that your desired path of travel in unobstructed.



17851

26. Place right foot on accelerator pedal and apply gentle downward pressure until truck begins to move in reverse.



17845

27. Apply service brakes as described in item 23 and push directional control lever forward to the neutral position.



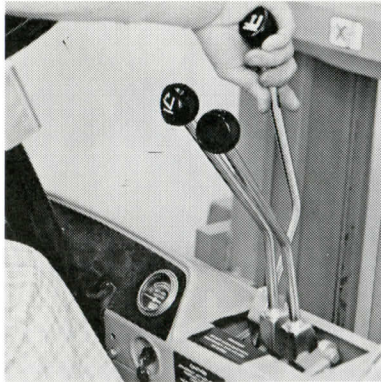
17852

28. Pull back on parking brake control lever to apply brake. Parking brake holding power is adjustable - see page 24 of this manual.



17853

BEFORE OPERATION



17829

29. Lower the upright so that lift forks are on, or near (1/2") the operating surface. Tilt the upright forward slightly so that fork tips rest on the operating surface.

30. Turn switch key counterclockwise to the "off" position, remove the key and carefully dismount from the truck.



17830

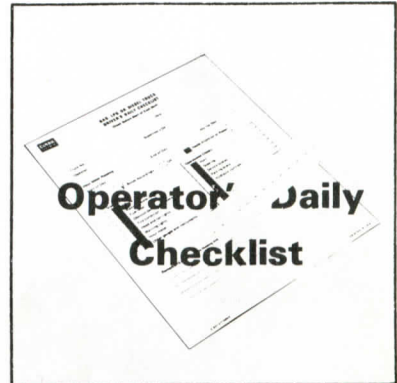


17833

Page 22

31. Remember to securely block drive wheels if truck is to be left on an incline.

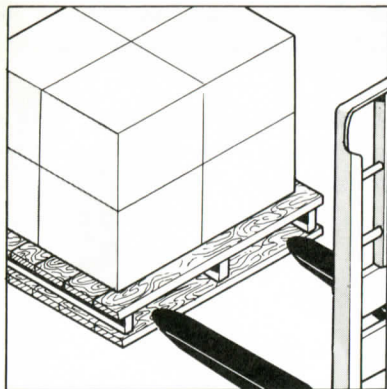
32. Review operators daily check list to make certain that it has been properly marked and turn it into the designated authority.



15197

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OPERATING HINTS

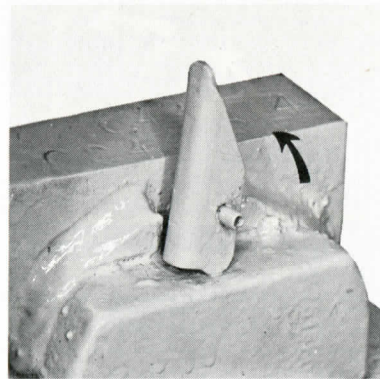


1. Remember to approach load slowly and squarely to avoid damaging the material being handled and to minimize truck maneuvering.

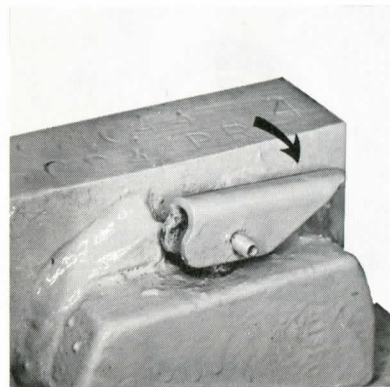
Load should be centered and forks should be near the outside edges to improve stability — if they are not. . .

13203

2. . . .Adjust them by lifting fork lock lever and sliding forks to the desired position then . . .



10758



3. . . .Remember to lower lever to lock forks securely into notch atop fork bar.

10759

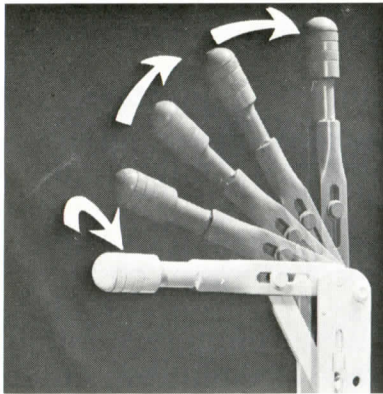
4. Always be alert for abrupt changes in the operating characteristics of your truck.

Unusual noises or sudden changes should be reported to your supervisor immediately.



17854

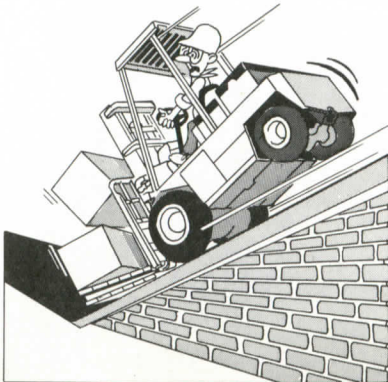
OPERATING HINTS



13228

5. Parking brake performance is checked by moving lever from full "on" position to full "off" position. Maximum force will be required just before brake lever reaches full "on" position.

The parking brake should be adjusted to hold the truck, with capacity load, on a 15% grade (1.5 feet of rise in 10 feet or 45cm of rise in 3m) or on the maximum grade negotiated in your operation, whichever is less. Brake holding power can be adjusted by rotating the knob on the lever. Rotate it clockwise to increase tension or counterclockwise to decrease tension and holding power.



17875

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6. It's risky to drive down a ramp load first. Your truck can tip forward if the ramp is steep enough. Always back down slowly and never turn sideways on an incline.

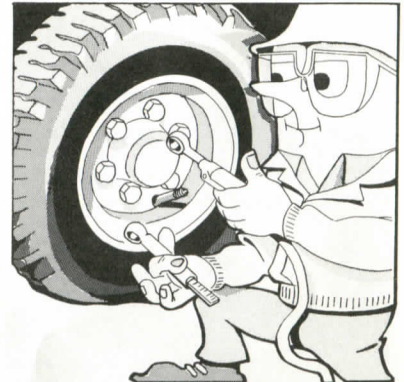
7. Always keep your tires inflated to the proper pressures.

Drive Tires

250 x 15 - 16 Ply inflate to 130 PSI (896 KPa)

Steer Tires

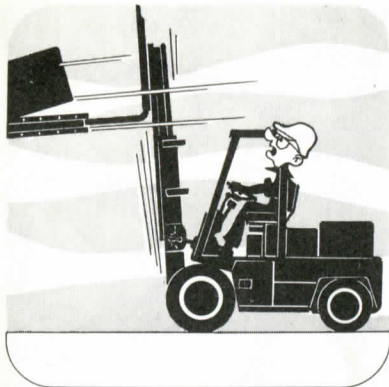
23 x 9 x 10 - 16 Ply inflate to 130 PSI (896 KPa)



17816

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OPERATING HINTS

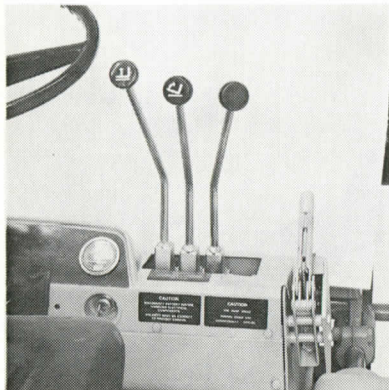


8. Use minimum forward or reverse tilt when stacking and unstacking loads.

Never tilt forward unless load is over stack or at low lift height.

Remember these points-
Lift trucks can be tipped over if improperly operated.

17876



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10. Trucks equipped with hydraulic attachments or accessories will have one or more additional control levers mounted to the right of the lift - tilt control levers.

The function of these lever(s) should be checked with your supervisor prior to attempting operation thereof.

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9. Report any faulty truck performance to your supervisor immediately. Don't try to make repairs yourself.



16782

11. Periodically check your battery discharge indicator during operation.

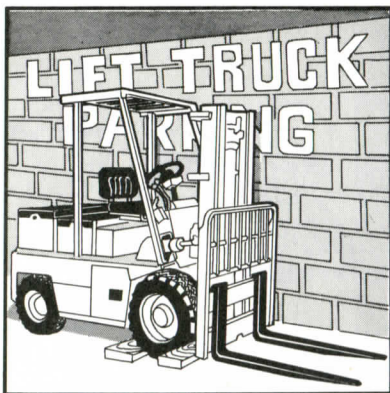
Needle should remain in green area. If needle drops into red area - report it - **do not operate your truck.**



13179

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PARKING



17871

1. Park lift trucks in designated parking areas only.

Do not obstruct traffic lanes or aisles.

2. Place directional control switch lever in neutral position.



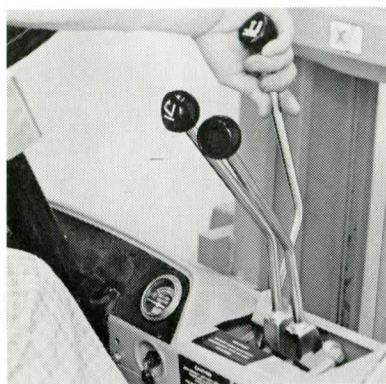
17852



17853

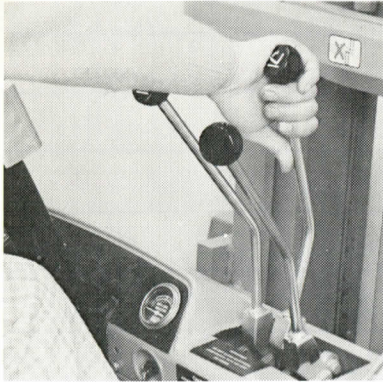
3. Pull back on parking brake control lever to apply brake.

4. Push forward on lift control lever to lower forks to the operating surface.



17829

PARKING



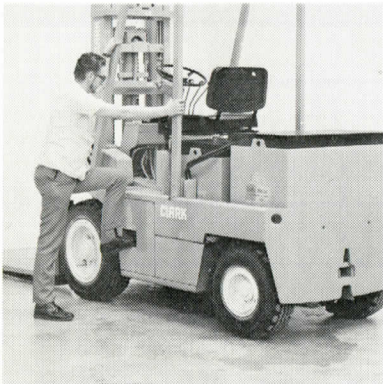
5. Push forward on tilt control lever to place fork tips as near the floor as possible.

17841

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



17830



7. Carefully dismount from the truck . . .

17847

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8. . . . Block the drive wheels if truck is to be left on an incline and remember to turn the key in to the designated authority.



17833

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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 GROUP
BATTLE CREEK, MICHIGAN 49016

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**YOUR AUTHORIZED CLARK
DEALER**