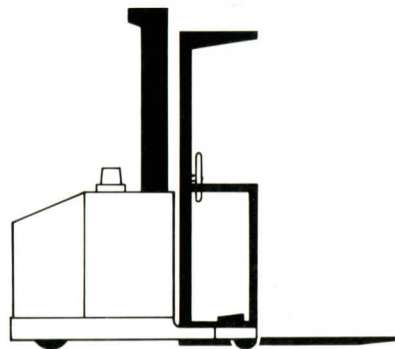

Operator's Instruction Manual



OP 15

CLARK

2387104
Book No. OI-529



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.**

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 ERHALTEN.

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

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DRIVE SAFELY

BEFORE YOU OPERATE THIS INDUSTRIAL TRUCK, READ AND UNDERSTAND THE INSTRUCTIONS, SIGNS AND MESSAGES IN THIS MANUAL AND ON THE 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 System including forks and attachments; chains, cable and limit switches, brakes, steering mechanism, guards and operator safety and tether equipment.

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 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.

5. Do not overload truck. Check capacity plate for load weight information.

6. Order selector trucks will tip over if not operated correctly. 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. Operate carefully when traveling without a load as the risk of overturn is greater.

7. Elevate forks or other lifting mechanism only to pick

up or stack a load. Watch out for obstructions, especially overhead.

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

9. Order selector trucks are not designed to operate on ramps or inclines. Do not operate on ramps or inclines.

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

11. Before lifting, make sure load is centered and forks are completely under load.

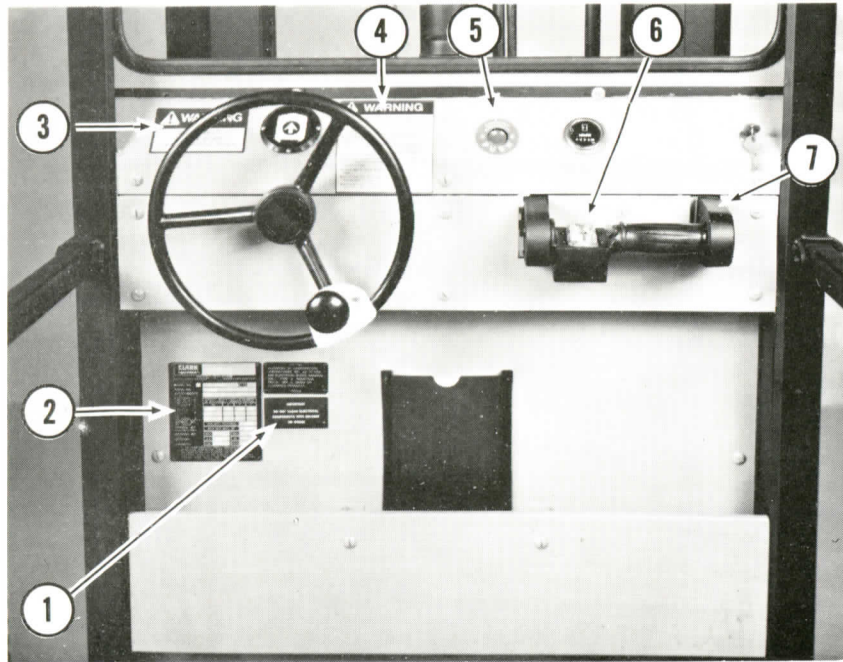
12. Do not put any part of your body under the forks or load. Do not allow anyone to stand or walk under load or lifting mechanism.

13. Do not carry other personnel on the forks or platform.

14. Wear the safety belt and attach the lanyard to the overhead guard when operating truck.

15. Before leaving the truck, make sure the control handle is deactivated and the lifting mechanism is lowered. Turn off all power and put chocks against wheels, if on incline.

DATA PLATE AND DECALS



83M139A

Make a report of decals that are damaged or missing and replace them immediately.

1. Electrical Decal
2. Capacity and Data Plate
3. Safety Belt Warning Decal
4. Operator's Warning Decal
5. Emergency Disconnect Decal
6. Lift, Lower Control Decals
7. Directional Control Decal

DATA PLATE AND DECALS

CLARK ①

INDUSTRIAL TRUCK DIVISION
BATTLE CREEK, MICHIGAN GEORGETOWN, KENTUCKY

MODEL NO. TYPE ③

SERIAL NO. ②

ATTACHMENTS ④

LOAD
C G C
A B
FLOOR

CAPACITY WITH ATTACH LISTED ABOVE OR WITH FORKS - UPRIGHTS VERTICAL			
LBS	A	B	C
⑤			

APPROX. WT. ALL TRUCKS
APPROX. WT. ELECTRICS ONLY
BATTERY WT.

BATTERY CAPACITY

LESS BATT - ELECTRICS		⑥
WITH MAX BATT WT		
MAX	⑦	MIN
AH	⑧	NO
LBS		VOLTS
		⑨

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 AND 1975 PT. NO. 2315709


Know the rated capacity of your lift truck and DO NOT OVERLOAD IT.

Read the rated capacity on the data plate and understand areas 1 through 9 as shown in the illustration.

1. Truck Type
2. Truck model and Serial Number
3. Classification Type
4. Attachments
5. Capacity
6. Truck Weight
7. Battery Weight
8. Battery Amp Hours
9. Voltage

2315709

DATA PLATE AND DECALS



WARNING

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

- Do not operate this order picker truck unless you are trained and authorized. Read and understand operator's manual before operating lift truck. Clark dealers have replacement manuals.
- Do not operate damaged or faulty truck. Do not attempt repairs unless you are trained and authorized.
- Before operating truck, fasten restraining chain and secure pallet or cart to forks following instructions in operator's manual.
- Look where you drive. Watch out for people, obstructions (especially overhead), and drop-offs.
- Order picker trucks will tip over if not properly operated. Lower forks or attachments and slow down before turning. Do not operate on slopes.
- Protect against falling objects. Overhead guard must be in place.
- Do not load truck over capacity on nameplate. Move long, high or wide loads carefully. Do not move unstable loads.
- Before getting off truck, lower forks or attachments all the way and turn off key. Brake applies automatically.

© Clark Equipment Co. 1982 Order Picker 2377059

The operator's 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 truck.

24816

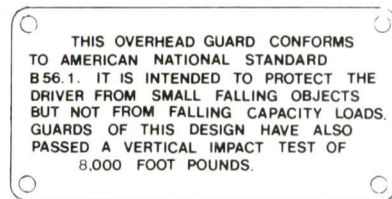
DATA PLATE AND DECALS



24815

Safety belt and lanyard decal is located on the operator's front panel.

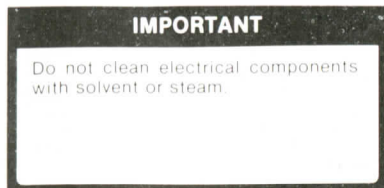
"BUCKLE-UP" before operating your order selector truck.



24817

The overhead guard plate is located on the front of the operator's overhead guard.

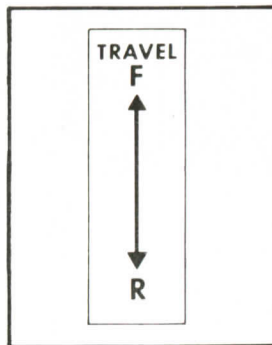
DATA PLATE AND DECALS



24813

The electrical decal is located below the operator's panel.

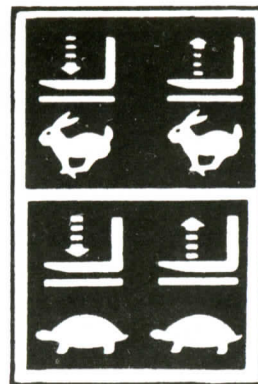
The instructions on the decal are to prevent damage to the electrical components.





24818

The directional control decal is located on the control handle assembly.

This shows the operator the direction the truck will move when the handle is activated.

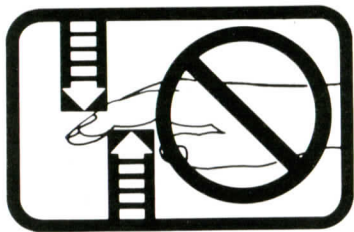


24819

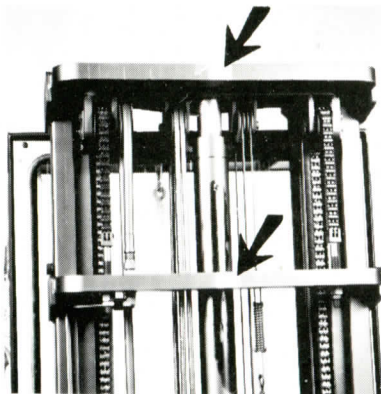
This decal shows the button positions to raise or lower the forks in a slow () or fast () speed.

This control is located on the operator's control handle assembly next to the horn button.

DATA PLATE AND DECALS



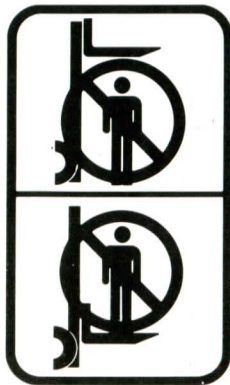
24809



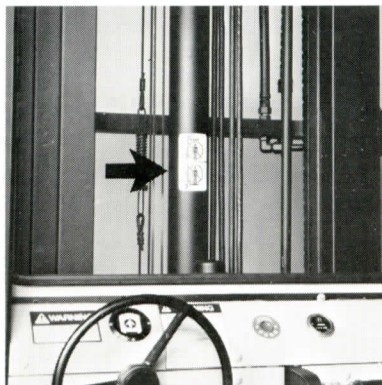
83M140

“Keep hands off” decals are located on the upright.

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



24810

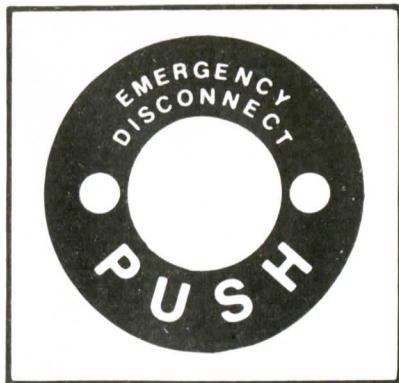


83M141

“Keep away from the forks” decal is located on the lift cylinder in front of the operator's compartment.

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

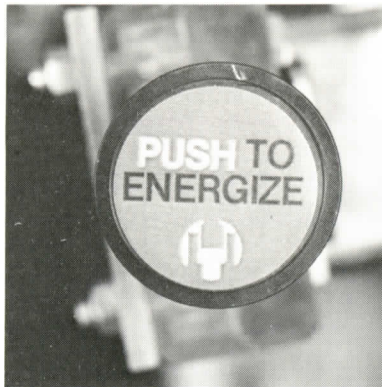
DATA PLATE AND DECALS



24820

This decal is located on the operator's control panel.

The red emergency disconnect decal shows the location of the electrical emergency disconnect button.



83M142

This decal is located on a knob located inside the drive unit compartment.

The "PUSH TO ENERGIZE" decal identifies the re-set control to restore electrical power to the truck after an emergency disconnect or battery plug disconnect.

SAFETY



24781

Only authorized personnel can operate Clark lift trucks.

Operators must be in good physical condition and have good driving skills.



24808

Do not operate a lift truck unless you are trained and qualified. Remember to use safe driving rules.



24782

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



24783

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

SAFETY

CLARK DRIVER'S DAILY CHECKLIST
Check Before Start Of Each Shift

CHECK ONE GAS LIFT OR DIESEL TRUCK ELECTRIC TRUCK

DATE: _____ OPERATOR'S ID: _____

TIME: _____

HOURLY METER READING: _____ MILES ON METER: _____

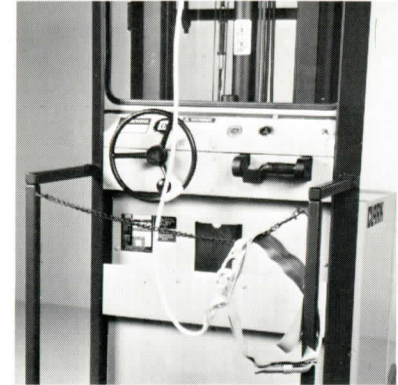
Brakes Accordingly OK Needs Attention or Repair

VISUAL CHECKS	OPERATIONAL CHECKS
TIRE CONDITION	HORN
HEAVY AND TALL LOADS	STEERING
WARNING LIGHTS	SERVICE BRAKES
HOURLY METER	PARKING BRAKES
OTHER GAUGES AND INSTRUMENTS	HYDRAULIC CONTROLS
DEFLECTOR DAMAGED AND LEADS	REAR VIEW
ENGINE OIL LEVEL	BATTERY CHARGE TEST
RADIATOR WATER LEVEL	NOTE: BATTERY INDICATOR WHILE DRIVING FALLS TO RED LINE, BATTERY CHARGE INSUFFICIENT TO OPERATE TRUCK PROPERLY.
FUEL LEVEL	
BATTERY FLUID CONNECTION	
NOTE: IN SOME CASES BATTERY FLUID CONNECTIONS MUST BE TIGHTENED	
BATTERY CHARGED INDICATOR	
NOTE: BATTERY CHARGED INDICATOR MUST BE IN GREEN AREA	

REMARKS: (PLEASE PRINT OR TYPE) _____

13124

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.



83M143

Learn how your truck is operated. Know its safety devices and how they work. Inspect the safety belt, safety line and safety chain for damage and security of mounting.

Before operating your truck, check steering, horn, brake application, forward-reverse switch, lift-lower controls and travel speed limit switches for correct operation.

SAFETY

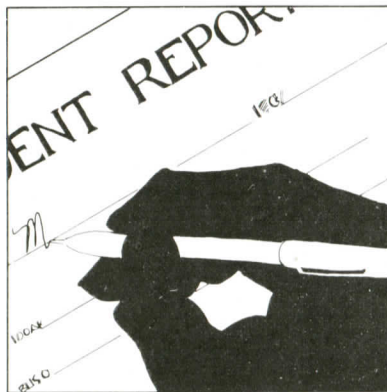


83M144

Attach a "WARNING" tag to the steering wheel if the truck has damaged, missing decals or unsafe to operate.

Report this information to your supervisor.

Do not operate the machine until repairs have been correctly done.



24798

Report all accidents to your supervisor.

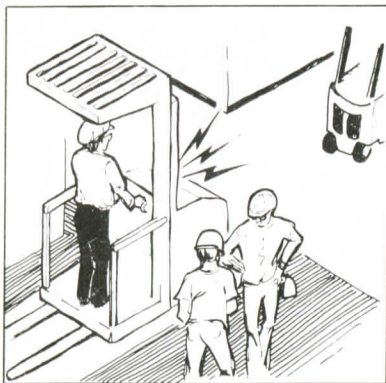


83M145

Look all around truck before moving it in any direction. Remember to start and stop slowly and smoothly.

Always look for pedestrians, other trucks or obstructions in your path of travel.

SAFETY



24821

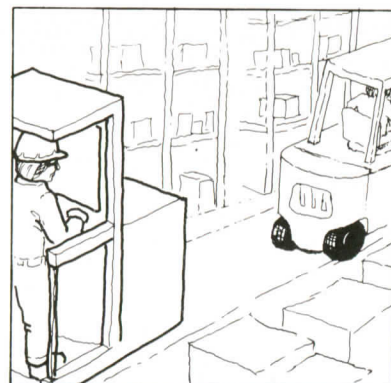
When operating your truck, remember to press the horn at all corners, exits, entrances and when nearing pedestrians.

When driving with a load, seek assistance if your vision is not clear.



24841

Always be aware of the position of the fork tips.



24840

Keep a safe distance from the truck ahead of you at all times. Make sure there is enough distance to permit you to stop smoothly and safely.

SAFETY



24823

Do not travel, turn or change direction suddenly. Decrease speed for turns, ramps, aisles, wet floors or when vision is not clear.

Remember, operate your truck safety and avoid accidents.



24824

Do not make a fast start or stop. Sudden stopping is dangerous and may cause your load to shift or fall off.

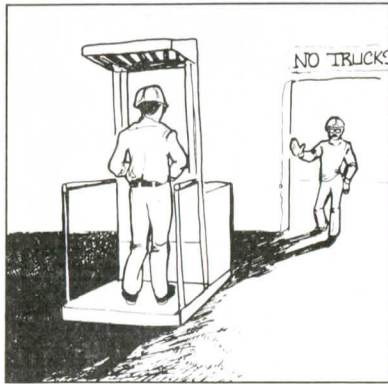


13087

Always obey all posted traffic rules and warning signs.

An operator shall give the right of way to ambulances, fire trucks or other emergency vehicles.

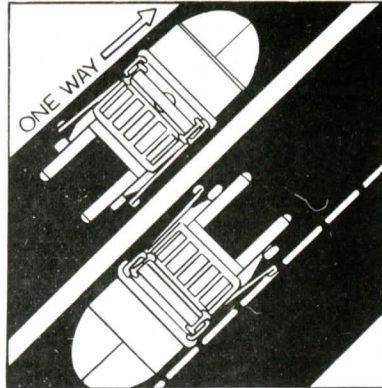
SAFETY



24825

Do not operate your truck in unauthorized areas. Follow all safety rules and read all warning signs.

Know your operating area and always be aware of other traffic in your area.

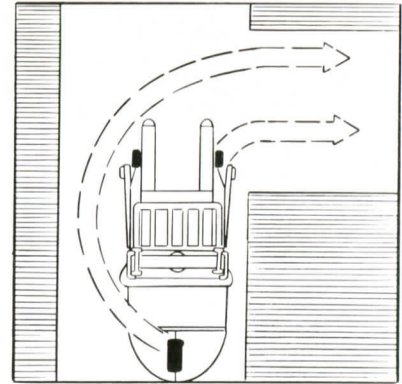


13082

Operate truck only in truck routes and keep operating aisles clean.

One-way aisles are recommended. If this does not fit your operation, keep to the right of the center line.

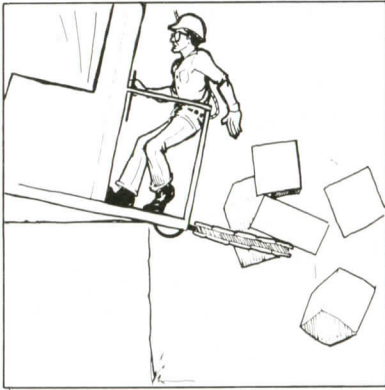
If there is a wide load on the forks, allow enough clearance when passing other trucks, stationary objects, and people at work.



13088

Be careful of drive end swing when turning while in reverse. Be cautious of fork swing when turning while in forward.

SAFETY



24826

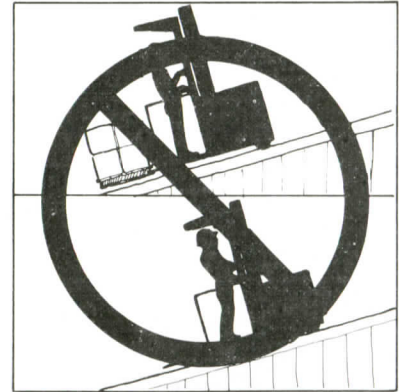
Be careful when operating an order selector near the edge of a loading dock or ramp. The truck can fall over the edge and cause injury or death. Keep a safe distance from the edge and use caution when the floor is slippery.



24822

An operator shall not drive a truck up to anyone who is standing in front of a bench or other fixed object.

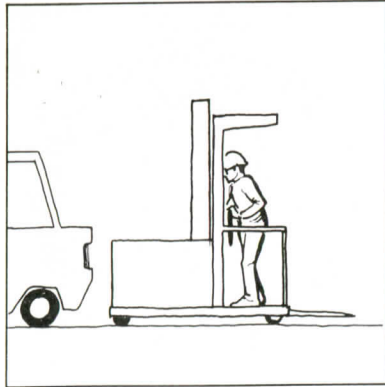
Follow these rules or you can cause injury to personnel and damage equipment.



24828

Order selectors are not designed to operate on ramps or inclines. Do not operate your order selector on ramps or inclines.

SAFETY



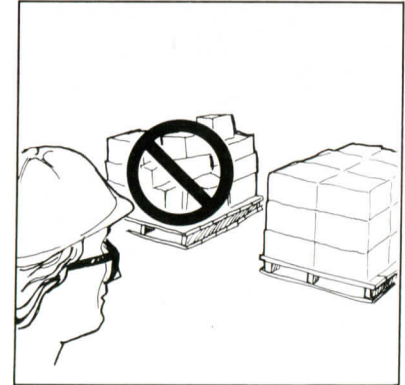
24829

Do not use your 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.

CLARK		①																
INDUSTRIAL TRUCK DIVISION																		
BATTLE CREEK, MICHIGAN	GEORGETOWN, KENTUCKY																	
MODEL NO.	②	TYPE ③																
SERIAL NO.																		
ATTACHMENTS	④																	
<table border="1"> <tr> <td>LOAD</td> <td></td> <td></td> <td></td> </tr> <tr> <td>B</td> <td>C</td> <td>G</td> <td>C</td> </tr> <tr> <td colspan="4">A</td> </tr> <tr> <td colspan="4">FLOOR</td> </tr> </table>	LOAD				B	C	G	C	A				FLOOR				CAPACITY WITH ATTACH LISTED ABOVE OR WITH FORKS - UPRIGHT'S VERTICAL	
LOAD																		
B	C	G	C															
A																		
FLOOR																		
	LBS	A	B	C														
	⑤																	
APPROX. WT. ALL TRUCKS	LESS BATT - ELECTRICS			⑥														
APPROX. WT. ELECTRICS ONLY	WITH MAX BATT WT.																	
BATTERY WT.	MAX ⑦	MIN																
BATTERY CAPACITY	AH ⑧	NO																
	LBS	VOLTS	⑨															
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 AND 1975 PT. NO. 2315709																		

18616

Know the rated capacity of your order selector and never try to lift more than a capacity load.

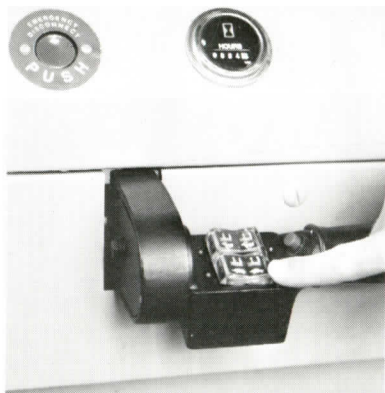


24830

Thoroughly inspect load to be moved for overload and/or poor balance. If the load is not safe, DON'T MOVE IT.

Unstable loads are a danger to you and to other personnel. Make sure that your load is well stacked and evenly positioned across both forks. Never lift a load with only one fork.

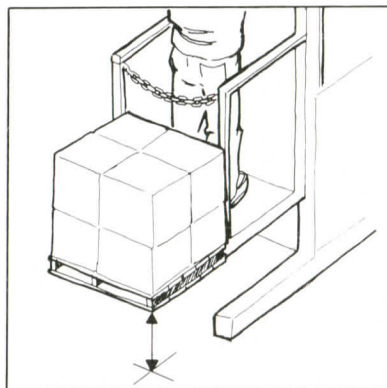
SAFETY



83M147

Always make sure there is enough overhead clearance, then lift smoothly.

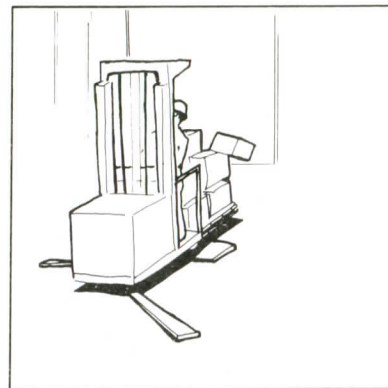
Two lifting speeds are available and may be used, as operating conditions permit.



24831

Always travel with your load near the floor.

Maximum travel speed can not be reached unless the forks are 24 inches or less above the floor.



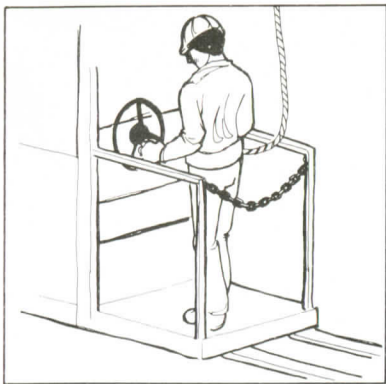
24832

Do not drive over loose objects.

Before driving over a dockboard or bridge plate make sure that it is secure and that your load will not exceed its capacity.

Damage or personal injury can result if these rules are not followed.

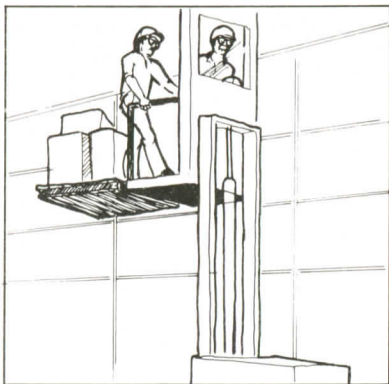
SAFETY



24833

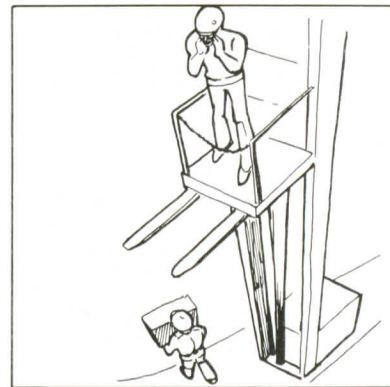
Do not operate a lift truck unless you are in the operator's compartment. Keep your hands and feet on the controls and do not extend them past the operator's area.

Never reach around or over the windshield to put hands or fingers on any part of the upright.



24834

Never carry passengers. They can fall off or cause you to have an accident. Always be in full control of your lift truck and do not drive carelessly.



24835

Do not permit anyone to stand or walk under elevated forks.

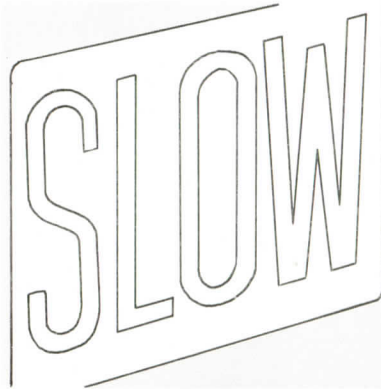
SAFETY



13102

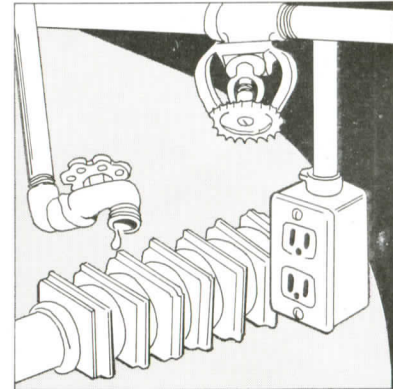
Know and observe floor load limits and overhead clearances in all operating areas.

Never enter an elevator or any other area until you are sure the floor is strong enough to hold your truck and the load.



13103

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



13104

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

SAFETY

WARNING

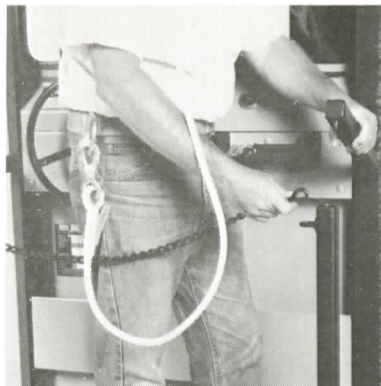
BREAKING THESE RULES WILL CAUSE SERIOUS OR FATAL INJURY TO YOURSELF AND OTHERS.

- Do not operate this order picker truck unless you are trained and authorized. Read and understand operator's manual before operating lift truck. Clark dealers have replacement manuals.
- Do not operate damaged or faulty truck. Do not attempt repairs unless you are trained and authorized.
- Before operating truck, fasten restraining chain and secure pallet or cart to forks following instructions in operator's manual.
- Look where you drive. Watch out for people, obstructions (especially overhead), and drop-offs.
- Order picker trucks will tip over if not properly operated. Lower forks or attachments and slow down before turning. Do not operate on slopes.
- Protect against falling objects. Overhead guard must be in place.
- Do not load truck over capacity on nameplate. Move long, high or wide loads carefully. Do not move unstable loads.
- Before getting off truck, lower forks or attachments all the way and turn off key. Brake applies automatically.

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24816

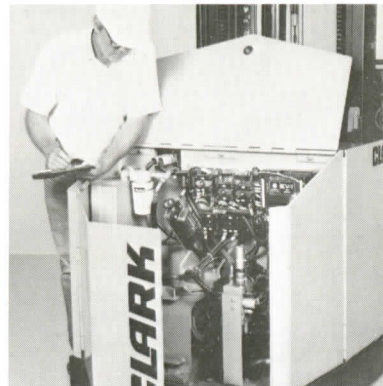
Prominently placed on every Clark truck is a list of basic rules for safe operation. These rules are for your protection. Be familiar with them.



83M148

Wear your safety belt and lanyard when operating the order selector.

Also, make sure the safety chain is fastened.

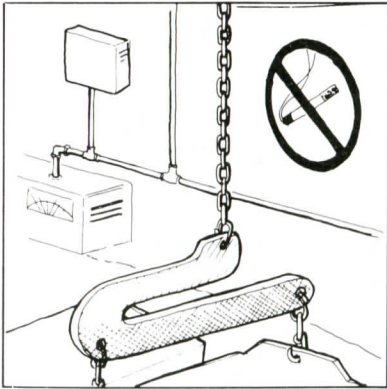


83M149

A scheduled planned maintenance and lubrication program should be followed.

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

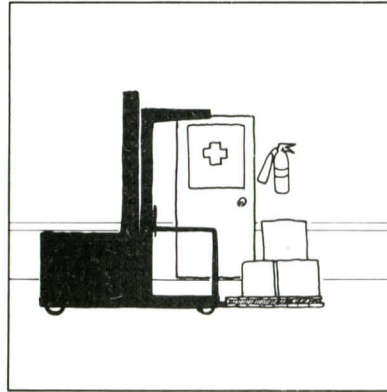
SAFETY



24799

Batteries should be serviced or charged only in charging areas and only by personnel trained in safe battery maintenance.

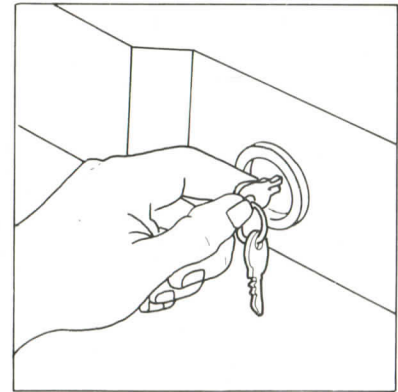
Never smoke or use open flames in areas where batteries are being charged or in areas where fuel or other flammable fluids or materials are kept or used.



24836

Park trucks in authorized areas only. lower forks to floor.

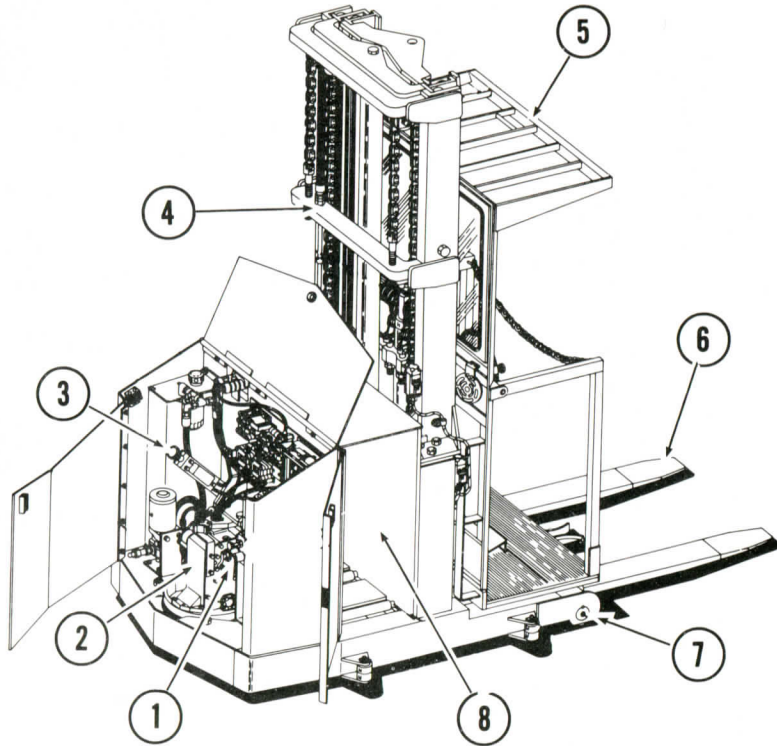
Make sure truck does not block fire aisles, fire equipment or stairways.



13108

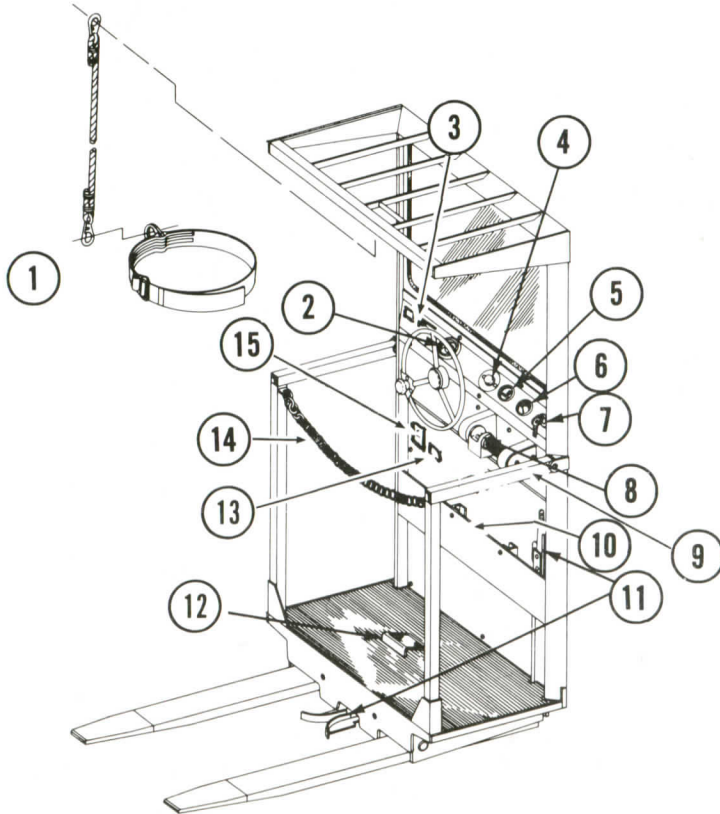
When leaving truck make certain that circuit switch has been turned to "OFF" and key has been removed. Remember to block wheels if truck is left on an incline.

KNOW YOUR TRUCK



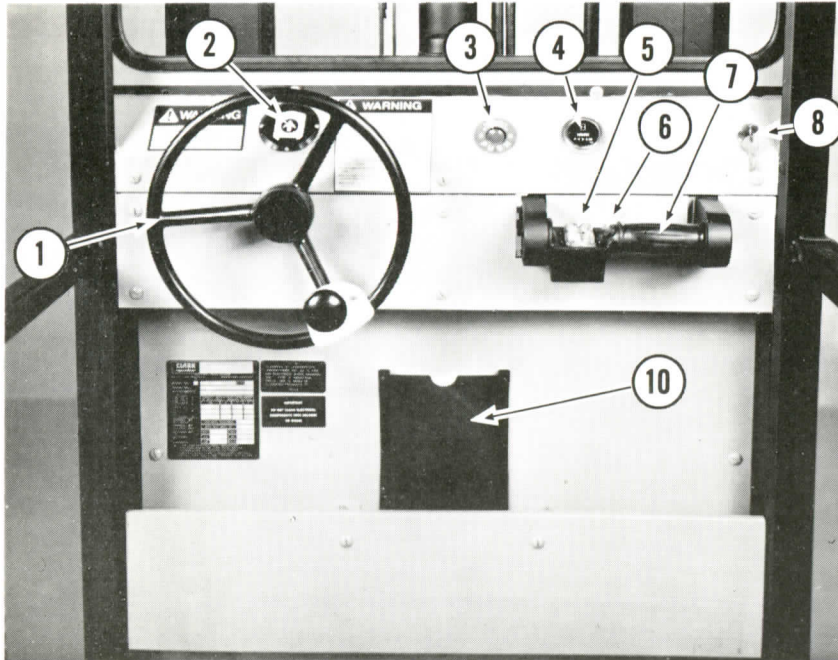
1. Manual Fork Lowering Release Valve
2. Drive Unit
3. Emergency Energize Plunger
4. Upright
5. Operator's Overhead Guard
6. Forks
7. Load Wheels
8. Battery Compartment

KNOW YOUR TRUCK

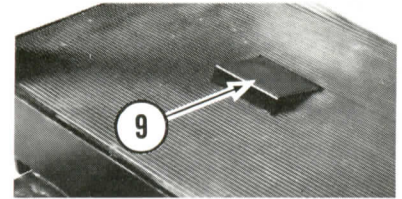


1. Safety Belt and Lanyard
2. Directional Indicator
3. Operator's Warning Decals
4. Emergency Disconnect
5. Hour Meter (optional)
6. Battery Discharge Indicator (optional)
7. Key Switch
8. Control Handle Assembly
9. Hinged Side Guard Rails
10. Operator's Manual Holder
11. Pallet Clamp (optional)
12. Deadman Brake
13. Electrical Decal
14. Safety Chain
15. Data and Capacity Plate

OPERATOR'S COMPARTMENT AND CONTROLS



83M139



83M151

1. Steering Wheel
2. Steering Direction Indicator
3. Emergency Disconnect Button
4. Engine Hour Meter (optional), Battery Gauge (optional) not shown
5. Fork Lift and Lower Buttons
6. Horn Button
7. Forward-Reverse and Speed Control Handle
8. Key Circuit Switch
9. *Brake Pedal
10. Operator's Manual Holder

*Brake is applied when pedal is in the up position.

BEFORE OPERATION

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

CHECK ONE GAS (LPG OR DIESEL) TRUCK ELECTRIC TRUCK

TRUCK NO. _____ OPERATOR _____ SUPERVISOR/CO. _____

YEAR OF MANUFACTURE _____

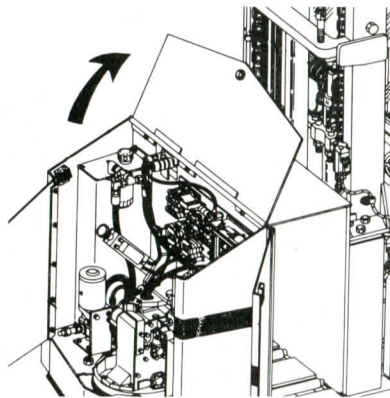
YEAR OF DAY _____ YEAR OF DAY _____ YEAR OF DAY _____

✓ Brake Adequacy OK Needs Attention or Repair

VISUAL CHECKS		OPERATIONAL CHECKS	
TIRE CONDITION		HORN	
HEAD AND TAIL LIGHTS		STEERING	
WARNING LIGHTS		SERVICE BRAKES	
HORN BATTERY		PARKING BRAKES	
OTHER LIGHTS AND INSTRUMENTS		HYDRAULIC CONTROLS	
OVERHAUL DAMAGE AND LEAKS		LEAF BRAKE	
ENGINE OIL LEVEL		BATTERY LOAD TEST	
WATER/WATER LEVEL		NOTE: BATTERY INDICATOR SPALLS & WELDING	
FUEL LEVEL		ALL TESTS OK AND BATTERY CHARGED	
BATTERY PLUG CONNECTION		REPAIRS PLANNED TO BE MADE PRIOR TO OPERATION	
NOTE: BE SURE THE BATTERY PLUG CONNECTION IS TIGHT			
BATTERY CHARGING INDICATOR			
NOTE: ALL ON WHEELS BEFORE PROCEED TO DRIVE AREA			

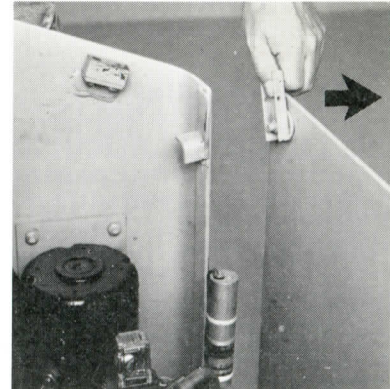
REMARKS: ADVISE ALL CONCERNING OPERATION OR REPAIR

13124



24837

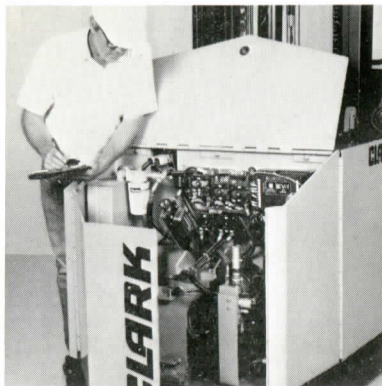
Lift the drive unit cover.



83M152

Unlock the drive unit compartment door latch and open the door.

BEFORE OPERATION



83M149

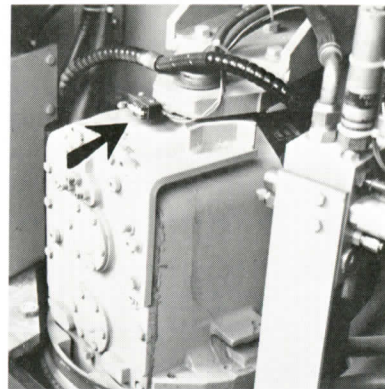
Inspect the truck and look for damage and leakage. Write all damage and leakage on the daily checklist, and do not operate the truck until it is repaired.



83M153

Inspect the hydraulic system. Look for leakage around filters, hoses, fittings and pumps.

Inspect the steering chain for looseness or lack of lubrication. Steering pump chain is next to the hydraulic fluid reservoir.



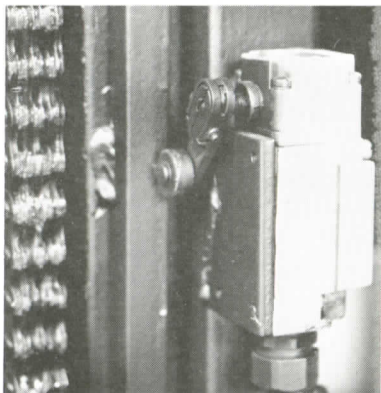
83M154

Inspect the drive unit. Look for leakage.

Check the drive wheel for flat spots or pieces missing.

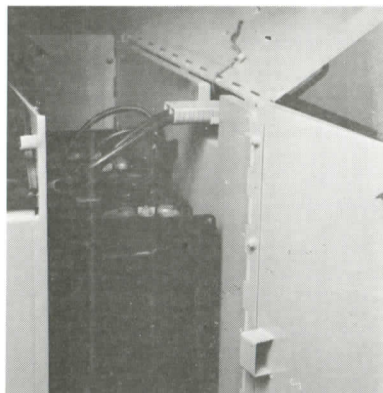
Check the turn limit switch on top of the drive unit. Make sure it activates and operates correctly.

BEFORE OPERATION



83M155

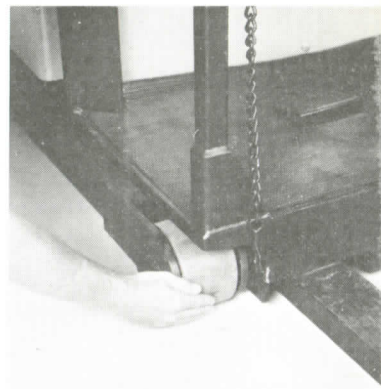
Inspect the speed limit switches on the upright. Make sure the rollers are against the upright rail and the switches operate correctly.



83M150

Lift and fully open the battery access cover. Unlock the battery compartment doors and open them.

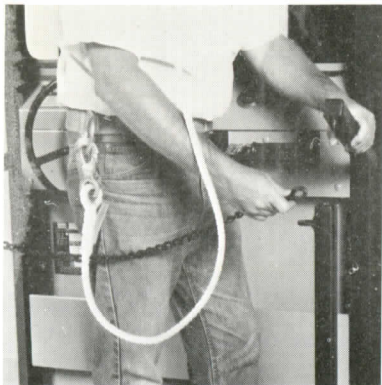
Make an inspection of the battery connector. Check the condition of electrical cables and wiring and make a report of all worn or cracked cables on the daily checklist. Close the battery compartment door, turn the latch to the locked position and close the battery access cover.



83M156

Inspect the load wheels for flat spots or pieces of material missing from the tire.

BEFORE OPERATION



83M148

Enter the operator's compartment. Attach the safety chain to the safety bar. Lower the side safety rails, put on the safety belt and attach the safety line to the overhead guard.

Make sure the safety equipment has no damage.



83M157

Check condition of the overhead guard. If it has damage, report it to your supervisor.



83M158

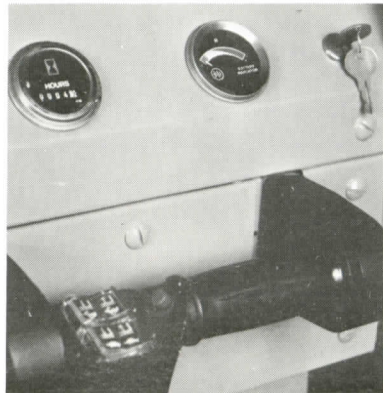
Make sure the operator's manual is in the holder.

BEFORE OPERATION



83M159

Connect the battery to the truck (if disconnected), press the "PUSH TO ENERGIZE" button and turn the key switch to the "ON" position.



83M160

Check the operation of the hour meter (if equipped). Check the charge condition of the battery. If gauge shows reading in red area, have battery charged before operating truck.



83M161

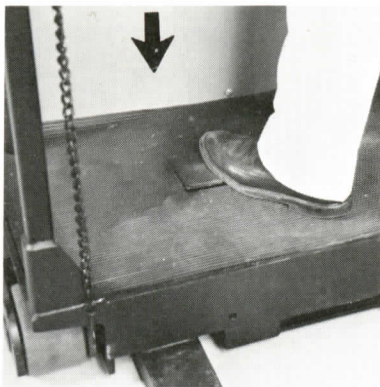
Press the horn button to check horn function. If the horn does not function, report the failure and have it repaired before the truck is put into operation.

BEFORE OPERATION



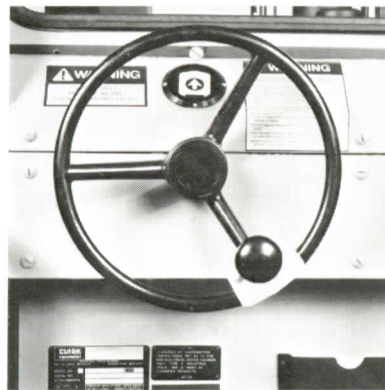
83M145

Before operating the truck, look in all directions to make sure your path of travel is clear.



83M162

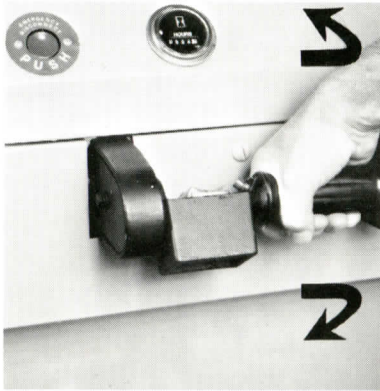
Put your left foot on the brake pedal and press down. This will release the brake and make power available to the drive motor.



83M163

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

BEFORE OPERATION



83M164

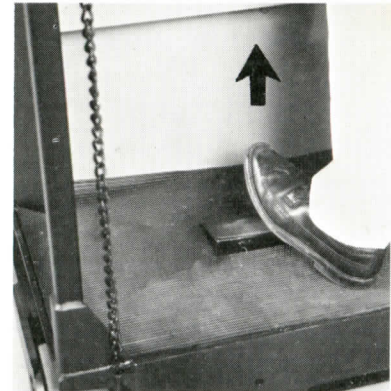
Put a firm grip on the directional control handle with your right hand. Turn it up (away from you) slowly. The truck must move slowly in a forward direction. Turn the handle more to increase speed. Truck should accelerate smoothly to maximum speed. Return the handle to "NEUTRAL" position and remove your foot from the brake pedal to stop the truck.



83M165

Turn the directional control handle down (toward you) to move the truck in reverse direction.

The truck must accelerate smoothly in reverse direction to maximum speed as the handle is turned. Return the handle to the "NEUTRAL" position and remove your foot from the brake pedal to stop the truck.

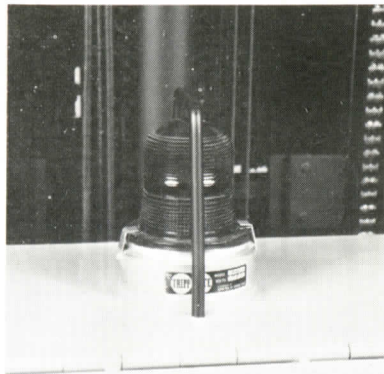


83M167

Lift foot from brake pedal to apply brake and stop truck travel.

Brake action should be smooth and stop the truck in normal distance. Write any unusual brake operation on the driver's daily checklist.

BEFORE OPERATION



83M166

Check the operation of the flashing red light.

The warning light should illuminate when the key switch is in the "ON" position and the brake pedal is pressed down.



83M168

Check the steering while the truck is moving. Turn the steering hand wheel fully left and then right.

Steering hand wheel should turn smoothly without binding or any loss of steering control.



83M169

Push the emergency disconnect switch button.

This will disconnect all power to the truck, except for lowering valve control circuit.



83M170

To operate the truck after pressing the emergency disconnect or disconnecting the battery, it is necessary to push the "PUSH TO ENERGIZE" button located in the drive unit compartment. If the platform is in the raised position, the platform can be lowered by pressing the lower button.

If the truck does not operate, make a report to your supervisor.

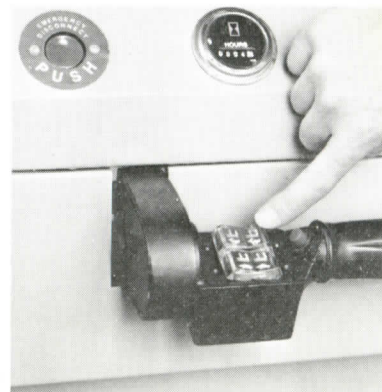
BEFORE OPERATION



83M147

Before forks are raised, make sure there is enough overhead clearance. Press the "SLOW" lift button. This button is represented by a turtle decal. Press the "SLOW" lower button and lower the forks.

Both lifting and lowering should be a smooth movement. Make sure truck can travel while lifting or lowering a load.

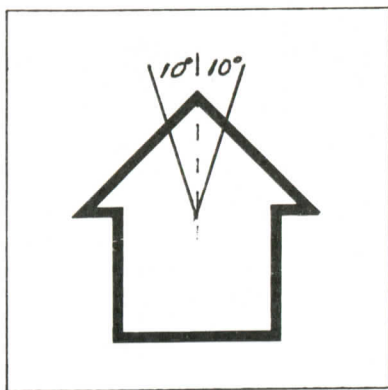


83M171

Press the "FAST" lift button. This button is represented by a rabbit decal. Then fast lower the forks.

Both lifting and lowering should be a smooth movement.

Report any unusual or erratic action to your supervisor.

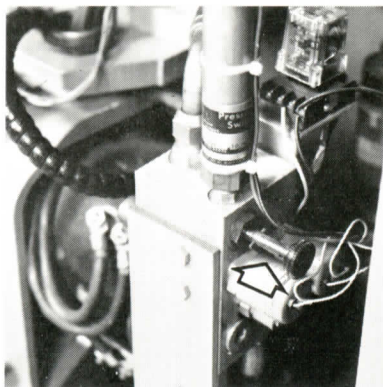


24838

Check the operation of the 10 degree turn switch.

- A. Make sure there is enough overhead clearance and raise forks above 150".
- B. Go in a forward direction and slowly turn hand wheel left and right of center position. Truck should stop moving when steer wheel is turned more than 10 degrees past center. Lower the platform and continue inspection.

BEFORE OPERATION



83M172

Check the operation of the hydraulic emergency release valve.

- A. Raise the platform one foot.
- B. Turn the key to the "OFF" position and carefully step off of the platform.
- C. Raise the drive unit cover and press and hold the emergency lowering valve plunger to lower the forks.

CLARK

DRIVER'S DAILY CHECKLIST
Check Before Start Of Each Shift

CHECK ONE <input type="checkbox"/> GAS LIFT OR DIESEL TRUCK	<input type="checkbox"/> ELECTRIC TRUCK	DATE
TRUCK NO.	TRUCK ID	OPERATOR'S NAME
YEAR MAKE READING	STATE OF USE	OPERATOR'S
<input type="checkbox"/> Does Accidents? <input type="checkbox"/> OK <input type="checkbox"/> Needs Attention or Repair?		
VISUAL CHECKS		OPERATIONAL CHECKS
<input type="checkbox"/> TIRE CONDITION <input type="checkbox"/> HEAD AND TAIL LIGHTS <input type="checkbox"/> BURNING LIGHTS <input type="checkbox"/> HOUR METER <input type="checkbox"/> OTHER GAUGES AND INSTRUMENTS <input type="checkbox"/> SERVICE BRAKES AND LEADS <input type="checkbox"/> ENGINE OIL LEVEL <input type="checkbox"/> RADIATOR WATER LEVEL <input type="checkbox"/> FUEL LEVEL <input type="checkbox"/> BATTERY FLOOD CONNECTION <input type="checkbox"/> NOTE BE SURE THE BATTERY PLUG IS COVERED PROPERLY	<input type="checkbox"/> HOORN <input type="checkbox"/> CHIRPING <input type="checkbox"/> SERVICE BRAKES <input type="checkbox"/> PARKING BRAKES <input type="checkbox"/> HYDRAULIC CONTROLS <input type="checkbox"/> REAR BRAKES <input type="checkbox"/> BATTERY LOAD TEST <input type="checkbox"/> NOTE: BATTERY INDICATOR MUST BE SETTING TO 100% AND BATTERY MUST BE FULLY CHARGED TO OPERATE TRUCK PROPERLY	
REMARKS: (WRITE ALL THE REPAIRS/DEFECTS IN HERE)		



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.

BEFORE OPERATION



83M144

 WARNING	 AVISO
<p>THIS TRUCK IS IN NEED OF REPAIR (SEE REVERSE SIDE).</p> <p>OPERATION OF THIS VEHICLE MAY CAUSE INJURY TO YOU OR THE MACHINE. FOR FURTHER INFORMATION CALL _____</p> <p>DATE _____ PHONE _____</p> <p>REMOVE THIS SIGN ONLY AFTER REPAIRS ARE MADE.</p>	<p>ESTA MÁQUINA NECESITA REPARARSE. (VER OTRO LADO)</p> <p>LA OPERACION DE ESTE VEHICULO LE PUEDE OCASIONAR DAÑOS PERSONALES A UD. O PODRIA DAÑAR LA MAQUINA. PARA MAYOR INFORMACION LLAMAR A _____</p> <p>NO. TELEFONO _____</p> <p>FECHA _____</p> <p>QUITAR ESTE AVISO SOLAMENTE DESPUÉS DE QUE SE HAYA TERMINADO LA REPARACION.</p> <p><small>59-886-0167 MAR 82</small></p>

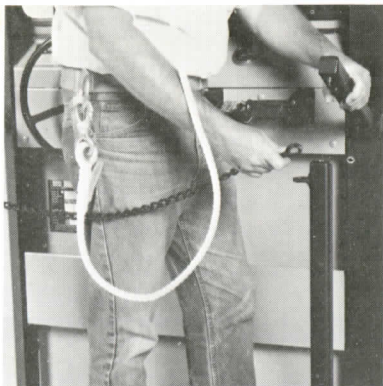
24805

If your daily checklist review shows the truck is damaged or not safe to operate, attach a "WARNING" tag to the hand wheel.

Information on the warning tag should describe the problem.

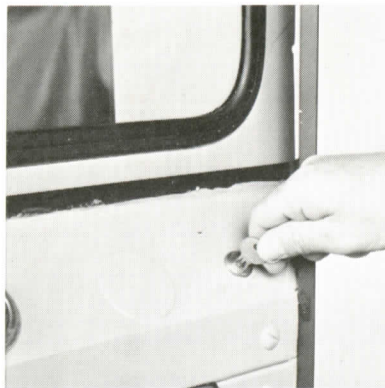
Notify your supervisor or maintenance personnel.

OPERATION



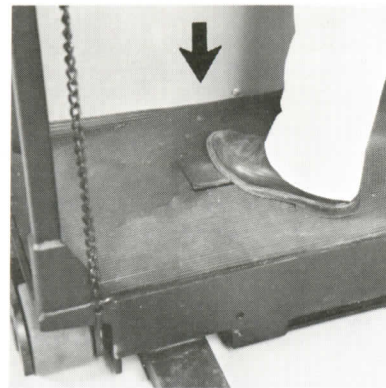
83M148

Enter the operator's compartment. Attach the safety chain to the safety bar. Lower the side safety rails, put on the safety belt and attach the safety line to the overhead guard.



83M159

Turn the key to the "ON" position.



83M162

Put your left foot on the brake pedal and press down. This will release the brake and make power available to the drive motor.

OPERATION



83M163

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



83M145

Look in all directions to make sure that your path of travel is clear.

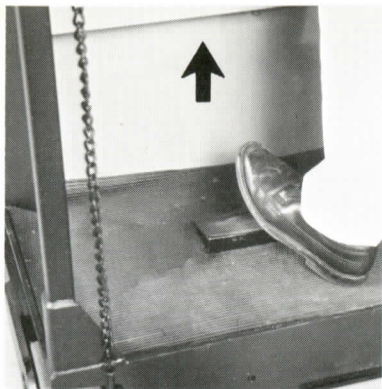


83M164

Put a grip on the directional control handle with your right hand and slowly turn it in the direction you want to travel.

Travel speed can be increased if your path of travel is clear.

OPERATION



83M167

Lift your foot from the brake pedal to activate truck brake and stop truck travel.



83M168

Your order selector can be operated while standing in forward or reverse direction of travel. This truck has a 61 inch turning radius.



83M169

Push the emergency disconnect switch button if you have an emergency while the truck is in operation.

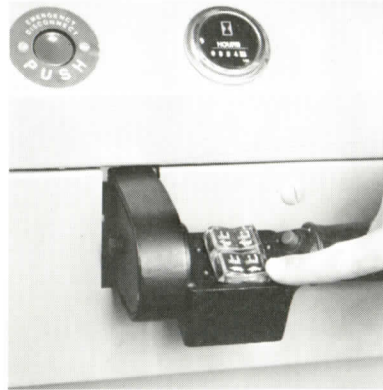
This will disconnect all electrical power and stop truck operations, except for lower control circuit.

OPERATION



83M170

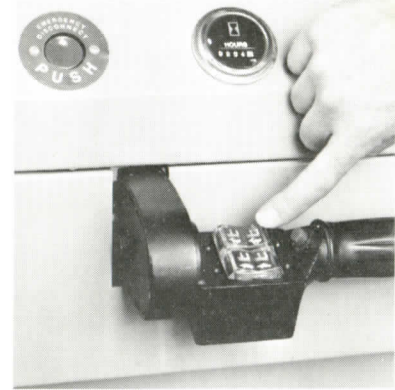
To operate the truck after pressing the emergency disconnect, it is necessary to push the "PUSH TO ENERGIZE" button located in the drive unit compartment. If the platform is in the raised position, another person must open the doors and push the button for you.



83M147

Before forks are raised, make sure there is enough overhead clearance. Press the "SLOW" lift button. This button is represented by a turtle decal. Press the "SLOW" lower button and lower the forks.

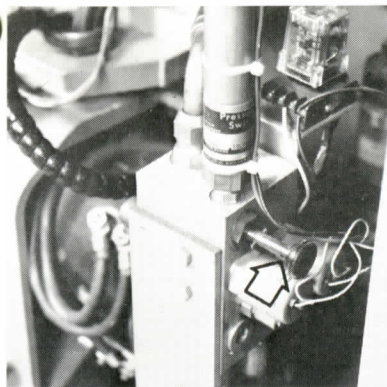
NOTE: If lowering system does not operate, travel will automatically stop. To regain full operation, push the lift button and raise the load.



83M171

Press the fast lift button. This button is represented by a rabbit decal. Then fast lower the forks.

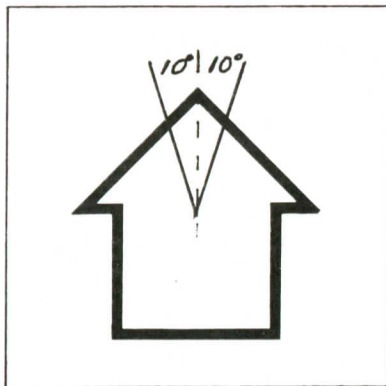
NOTE: If lowering system does not operate, travel will automatically stop. To regain full operation, push the lift button and raise the load one inch.



83M172

To lower the platform during a power failure, push the lower button or open the drive unit doors and press and hold the emergency lowering valve plunger. Lower the forks.

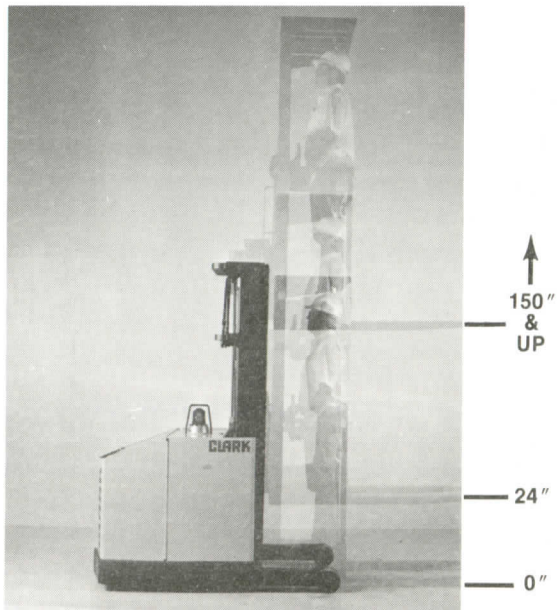
OPERATION



24838

For your safety the truck will not turn more than 10° either side of center while platform is in a raised position of 150 inches or more. Truck will stop. To resume travel either lower the platform below 150 inches or turn the steer wheel to the center position.

OPERATION

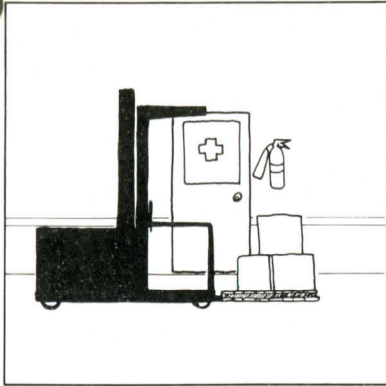


83M173

The following chart shows the maximum travel speeds/times based on platform height and load conditions.

	3000 Lb. Load (1360.8)			
	Empty	Time/50'	Loaded	Time/50'
Below 24" (60.9)	5.50 MPH (8.8)	6.2 Sec	5.00 MPH (8.0)	6.8 Sec
24"-150" (60.9)-(381)	2.25 MPH (3.6)	16.0 Sec	1.80 MPH (2.8)	20.0 Sec
151"-258" (383.5)-(655.3)	1.00 MPH (1.6)	34.0 Sec	.85 MPH (1.3)	40.0 Sec

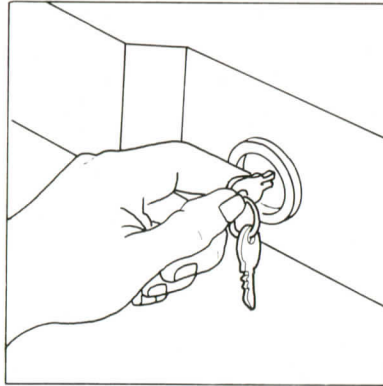
PARKING



24839

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

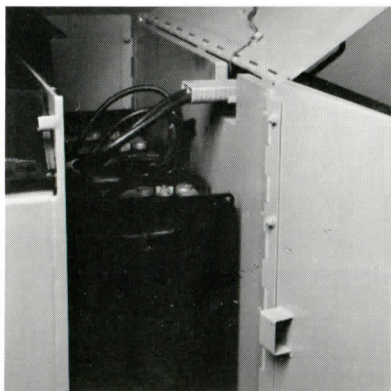
Make sure truck does not block fire aisles, fire equipment, stairways or walkways.



13108

When leaving truck make sure that circuit switch has been turned to "OFF" position and key has been removed. Remember to put chocks against the wheels if truck is left on an incline.

BATTERY RETAINMENT/CARE



83M150

 **WARNING**

BATTERY SERVICE

DO NOT SERVICE BATTERY UNLESS YOU ARE TRAINED AND AUTHORIZED. BATTERY ACID CAN CAUSE SEVERE BURNS AND INJURY.

IMPORTANT

USE ONLY BATTERIES THAT MEET THE FOLLOWING SPECIFICATIONS.

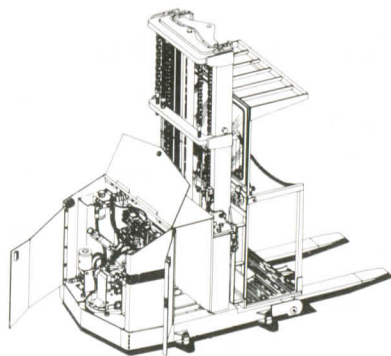
	Max. Fork Height (up to 189 inches)	Max. Fork Height (198 inches & up)
Voltage	24	24
Minimum Battery Weight	1400 lb.	1600 lb.
Maximum Battery Size	36.25" W x 13.13" L x 31" H	36.25" W x 13.13" L x 31" H

FOR OTHER INDUSTRIAL BATTERY SIZES, PROVIDE BLOCKING TO RESTRAIN THE BATTERY FROM MOVING NOT MORE THAN 12,7 MM/.50 IN. IN A HORIZONTAL DIRECTION.

MAKE SURE THAT BATTERY COVER IS CLOSED AND SIDE ACCESS DOORS ARE CLOSED AND LATCHED BEFORE OPERATING TRUCK.

MAINTENANCE AND LUBRICATION

Lubrication Chart

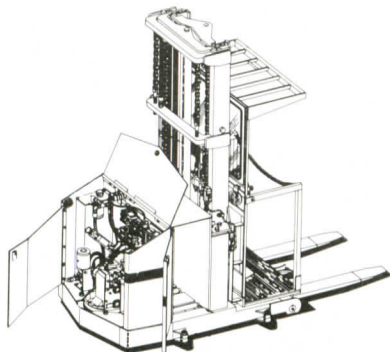


Description	Work Directions	Materials	Working hrs.															
1 Load Wheel Axle	Use Lub. Gun & Adapter for flush type fittings	NLGI #1	150 HRS															
2 Sheave Pin	Use Lub. Gun	NLGI #1	150 HRS															
3 Battery Roller Bearings (optional)	Remove, Clean and Repack	NLGI #1	1000 HRS															
4 Lift Chain	Check for Rusting, and Clean	SAE 40 Motor Oil	100 HRS															
5 Hydraulic Oil Filter	Change Oil Filter	Filter Element	250 HRS															
6 Gear Case — Transmission	Drain, Flush and Refill	Clark 1801708	500 HRS															
7 Hydraulic Reservoir	Drain, Flush and Refill	SAE 10-30W Oil	2000 HRS															
8 Hydraulic Reservoir Outlet Screens	Clean in solvent	Solvent	2000 HRS															
9 Side Guide Rollers (optional)	Use Lube Gun & Adapter for flush type fittings	NLGI #1	150 HRS															
10 Sheave Pin on Free Lift Cylinder—Three Stage Mast Only	Use Lub. Gun	NLGI #1	150 HRS															
<p>After any major disassembly and/or repair the following lubricant should be performed.</p> <table border="0"> <tr> <td>Transmission Pivot Brg.</td> <td>Repack Bearing</td> <td>NLGI #1 MS 107B</td> </tr> <tr> <td>Transmission Roller Brg's.</td> <td>Repack Bearings</td> <td>NLGI #1 MS 1007B</td> </tr> <tr> <td>Steering Wheel Shaft</td> <td>Reoil</td> <td>Light Weight Oil</td> </tr> <tr> <td>Steering Chain</td> <td>Clean and Reoil</td> <td>Heavy Weight Oil</td> </tr> <tr> <td>Lift Chain</td> <td>Clean and Reoil</td> <td>SAE 40 Grade Motor Oil</td> </tr> </table>				Transmission Pivot Brg.	Repack Bearing	NLGI #1 MS 107B	Transmission Roller Brg's.	Repack Bearings	NLGI #1 MS 1007B	Steering Wheel Shaft	Reoil	Light Weight Oil	Steering Chain	Clean and Reoil	Heavy Weight Oil	Lift Chain	Clean and Reoil	SAE 40 Grade Motor Oil
Transmission Pivot Brg.	Repack Bearing	NLGI #1 MS 107B																
Transmission Roller Brg's.	Repack Bearings	NLGI #1 MS 1007B																
Steering Wheel Shaft	Reoil	Light Weight Oil																
Steering Chain	Clean and Reoil	Heavy Weight Oil																
Lift Chain	Clean and Reoil	SAE 40 Grade Motor Oil																

MAINTENANCE AND LUBRICATION

Lubrication and Maintenance Chart

A = Hours
B = Daily — 8 Hours
C = Weekly — 40 Hours
D = Semi-Annually — 1000 Hours
E = Annually — 2000 Hours



1. Charge, service and clean battery.
2. Check battery water level and equalize battery charge.
3. Thoroughly scrub battery, remove, clean and repack battery rollers.
4. Check electrical interlock.
5. Clean SCR (Freon Degreaser 1801146).
6. Check level of hydraulic fluid (SAE 10-30 within 2-3 inches)
7. Change hydraulic oil filter.
8. Drain, flush and refill hydraulic reservoir and clean outlet screen.
9. Check transmission lubricant level (1801708).
10. Adjust transmission rollers.
11. Drain, flush and refill gear case (1801708).
12. Thoroughly clean machine (do not steam clean SCR or Electrical Components)
13. Carefully inspect for loose or missing parts.
14. Inspect for damage or leakage.
15. Check for smooth and proper function of all controls.
16. Inspect for wiring damage.
17. Check contactor tips.
18. Check brake adjustment.
19. Service drive motor and pump motor (per manufacturer's instructions).
20. Lubricate steering knob.
21. Service all grease fittings (monthly).
22. Brake in period — change transmission oil, hydraulic oil filter, lubricate all grease fittings, check all adjustments and tighten any loose bolts, nuts, etc.

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MAINTENANCE AND LUBRICATION

SERVICE GUIDE

SYMPTOM	POSSIBLE CAUSE	REMARKS
Sluggish performance, erratic switching, slow lift	Battery discharged or defective Loose connection (power wiring) Motor brushes are worn Brake is dragging Load wheels are binding Defective SCR Control	Charge and inspect battery Tighten connections Replace the brushes See brake adjustments in Maintenance Section Check for clearance Refer to SCR manual and schematic
Fuses open	Short circuit Overload Defective fuse	Inspect circuits Study duty cycle, reduce load Replace fuse
Hydraulic system leaks oil	Defective hose Loose fittings	Replace the hose Tighten
Reservoir overflows	Overfilled Air entering system	Drain to proper oil level Return tube in reservoir defective Inspect and replace
Lift cylinder leaking	Seals or wiper damaged Rod is damaged	Replace Inspect and replace

MAINTENANCE AND LUBRICATION

SERVICE GUIDE

SYMPTOM	POSSIBLE CAUSE	REMARKS
No operation	Battery disconnected or discharged Control fuses blown Power fuse blown Open circuit or PMT Trips	Connect and/or charge the battery Replace fuses Replace fuse Refer to SCR manual and schematic
Transmission leaks oil	Worn seal Loose joints	Replace Tighten and reseal
Transmission is loose	Cam followers are loose or defective	Adjust or replace cam followers
Steering is slack	Transmission rollers loose Cable adjustment Worn bushings	Readjust Readjust Replace
Loose Steering	Steering cable too loose	Adjust
Steers hard	Support wheel bearing tight Cable is too tight Transmission rollers too tight Sheaves binding Support pivot pin is bent Power steering defective	Adjust bearings Readjust Readjust Relubricate and adjust Inspect and repair Inspect and repair
Battery rollers stick	Corroded	Remove, clean and lubricate
Not enough brake Too much brake	Improper adjustment Improper adjustment	See adjustment section See adjustment section

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.



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