
Operator's Instruction Manual



PT 5/7

CLARK

2387103
Book No. OI-528

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 industrial lift trucks.

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

This manual will help you learn how to operate your 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 truck. Illustrations in this manual show the operator correct procedures for checking, starting, operating and stopping the truck.

Clark industrial trucks are built to take hard work, but not abuse. They are built to be dependable but as with any 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 industrial truck repair procedures and authorized by your employer.

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

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

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

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DRIVE SAFELY

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

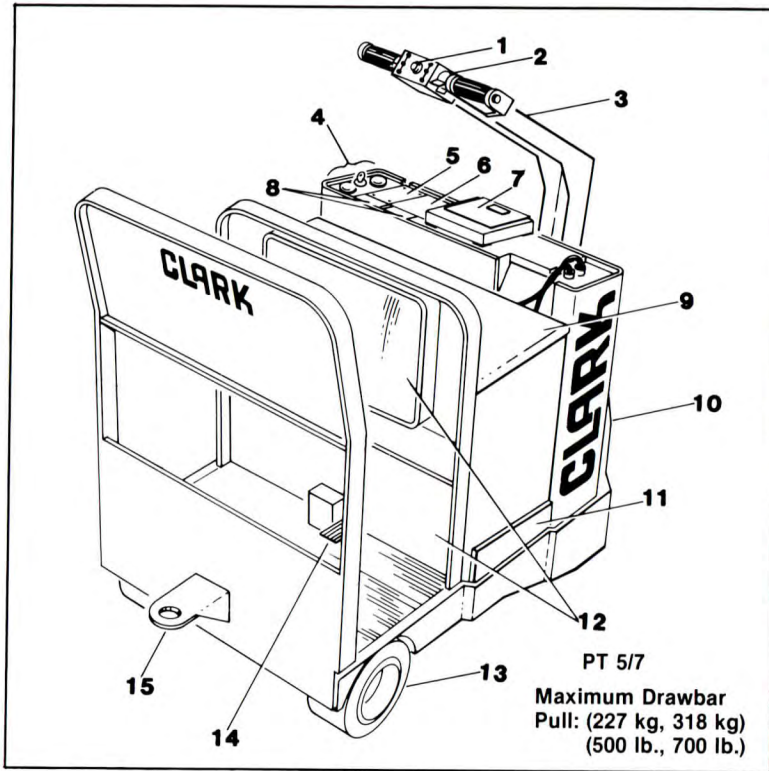
INJURY OR DEATH TO YOU OR OTHER PERSONNEL WILL OCCUR IF YOU DO NOT FOLLOW THESE INSTRUCTIONS AND MESSAGES.

STAY ALERT!

SUMMARY OF SAFE OPERATING PROCEDURES (TOW TRACTOR)

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, Battery, Controller, limit switches, brakes and steering mechanism.
3. Operate only when standing in the operators compartment.
4. Do not tow 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 trailers.
5. Do not overload truck or trailers. Check capacity plate for load and draw bar weight information.
6. Start, stop, travel, steer and brake smoothly. Remember, loaded trailers will require a longer distance to stop, prepare for the extra distance. Slow down for turns and on uneven or slippery surfaces that could cause truck to slide or overturn.
7. Operate carefully on ramps, travel slowly and do not angle or turn.
8. Observe applicable traffic regulations. Yield right-of-way to pedestrians and emergency equipment. Slow down and sound horn at cross aisles and wherever vision is obstructed.
9. Do not travel with other personnel on the truck.
10. Before leaving the truck, make sure you are parked in an authorized area and not blocking fire lanes, walkways and stairways.

KNOW YOUR TRUCK

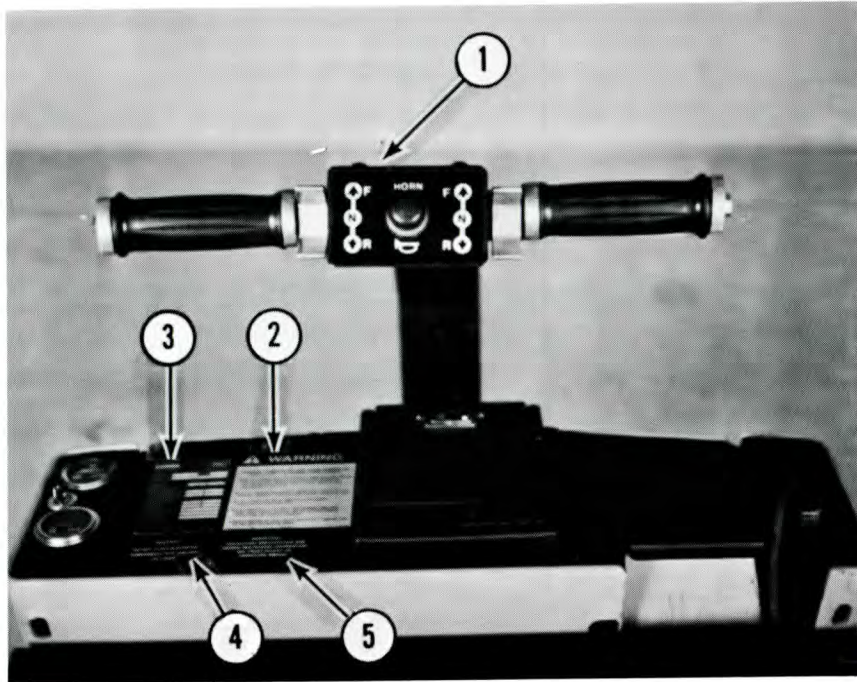


1. Horn Button
2. Directional and Speed Control
3. Control Handle
4. Battery Indicator Gauge, Hourmeter and Key Switch (All Optional)
5. Data and Capacity Plate
6. Warning Decal (Operators)
7. Operators Manual and Holder
8. Electrical and Battery Decals
9. Battery and Battery Cover
10. Drive Unit and Drive Wheel (Front)
11. Battery Retainer Plates (Both Sides)
12. Operator's Compartment Cushions
13. Rear Wheels
14. 3rd Speed Pedal
15. Towing Eye

DATA PLATE AND DECALS

Make a report of decals that are damaged or missing on the "Drivers Daily Checklist". Replace them immediately.

1. Directional Decal
2. Operator Warning Decal
3. Data and Capacity Plate
4. Electrical Decal
5. Battery Decal



DATA PLATE AND DECALS



WARNING

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

- Do not operate this tow tractor unless you are trained and authorized. Read and understand operator's manual before operating tractor. Clark dealers have replacement manuals.
- Do not operate damaged or faulty tow tractor. Do not attempt repairs unless you are trained and authorized.
- Look where you drive. Watch out for people, obstructions and drop-offs.
- Operate only from operator's station. Keep hands on grips and feet inside compartment.
- Tow tractors will tip over if not properly operated. Slow down before turning. Do not turn on slopes. Avoid uneven or slippery surfaces and loose materials.

Clark Equipment Co. 1982

Tow Tractor

2386890

The operators warning decal, located on the front cover, describes basic instructions for safe operation of a tow truck by qualified operators.

Read and understand these instructions plus the other messages in this manual and on the truck.

24804

DATA PLATE AND DECALS

Know the rated capacity of your tow truck. Never exceed this rated capacity.

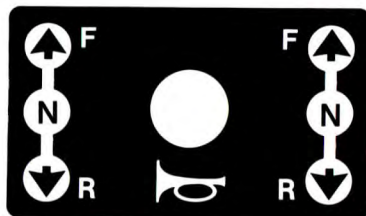
Read the rated capacity on the data plate, and read and know areas 1 through 11 as shown in the illustration.

CLARK	Industrial Truck Division
BATTLE CREEK, MI.	GEORGETOWN, KY.
MODEL NO. 1	TYPE 2
SERIAL NO. 3	
	LBS KGS
CAPACITY 4	
TRUCK WEIGHT:	
WITHOUT BATTERY 5	
WITH MAX. BATTERY 6	
BATTERY WEIGHT:	
MAXIMUM 7	
MINIMUM 8	
BATTERY NUMBER 9	
D.C. VOLTAGE 10	
MAX. AMP HOURS 11	
FROM FACTORY THIS TRUCK MEETS PART II ANSI B-56.1, 1969 1975.	
PART NO. 2756763	

1. Truck Model
2. Type
3. Serial Number
4. Capacity
5. Truck Weight Without Battery
6. Truck Weight With Maximum Weight Battery
7. Battery Weight — Maximum
8. Battery Weight — Minimum
9. Battery Type
10. Voltage
11. Maximum Amp Hours

24812

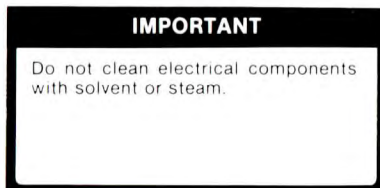
DATA PLATE AND DECALS



24803

The directional decal, located on the control handle, shows the direction to move the control levers for forward and reverse travel.

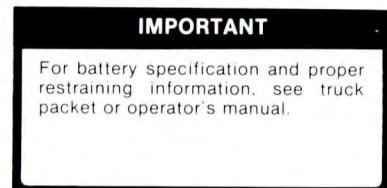
This decal also identifies the horn button.



24813

The electrical warning decal is located on the front cover.

The instructions on this decal warn against the use of solvents and steam to prevent damage to the electrical components.



24814

The battery information decal is located on the front cover.

For more information, refer to the "BATTERY RETAINMENT/CARE" section of this manual.

SAFETY



24781

Only authorized personnel can operate Clark tow trucks.

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



24808-M

Do not operate tow truck unless you are trained and qualified.

Remember to use safe driving rules.



24782

Wear safety glasses and safety shoes when operating a tow truck. Do not wear loose clothing.

SAFETY



24783

Never operate a tow 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.

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

CHECK ONE GAS LIQUID DIESEL TRUCK ELECTRIC TRUCK DATE _____

TRUCK NO. _____ OPERATOR _____ PLANT/WORKSITE _____

MILE/METER READING _____ START OF DAY _____ END OF DAY _____

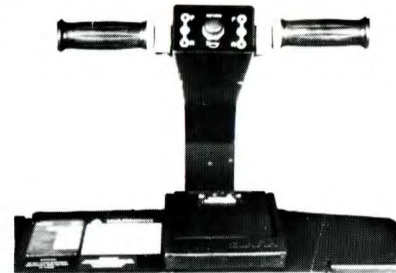
BORN ACCIDENTALLY OK HORN ATTENTION OF PEDESTRIAN

VISUAL CHECKS		OPERATIONAL CHECKS	
<input type="checkbox"/>	TIRE CONDITION	<input type="checkbox"/>	HORN
<input type="checkbox"/>	HEAD AND TAIL LIGHTS	<input type="checkbox"/>	STEERING
<input type="checkbox"/>	WARNING LIGHTS	<input type="checkbox"/>	SERVICE BRAKES
<input type="checkbox"/>	HORN SWITCH	<input type="checkbox"/>	PARKING BRAKES
<input type="checkbox"/>	POWER SWAGES AND INSTRUMENTS	<input type="checkbox"/>	HYDRAULIC CONTROLS
<input type="checkbox"/>	OBVIOUS DAMAGE AND LEAKS	<input type="checkbox"/>	HEAT BRAKE
<input type="checkbox"/>	ENGINE OIL LEVEL	<input type="checkbox"/>	BATTERY (LOAD TEST)
<input type="checkbox"/>	WATER/WATER LEVEL	<input type="checkbox"/>	NOTE: CHECK BATTERY INDICATOR WHILE HOLDING TALKER AND HORN. BATTERY CHARGE LIGHT MAY NOT FLASH IF CHARGE PUMP INOPERATIVE.
<input type="checkbox"/>	FUEL LEVEL	<input type="checkbox"/>	
<input type="checkbox"/>	BATTERY PLUG CONNECTION NOTE: BE SURE THE BATTERY PLUG CONNECTION IS TIGHT	<input type="checkbox"/>	
<input type="checkbox"/>	BATTERY CHARGING INDICATOR NOTE: ALL CHARGING INDICATORS SHOULD BE GREEN AREA	<input type="checkbox"/>	

REMARKS: DETAIL ALL TIRE WEAR SITUATION OR DAMAGE

1E31224

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



83M118

Before operating your truck, check steering, horn, brake application, forward-reverse switch for correct operation.

SAFETY

! WARNING

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

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- Do not operate damaged or faulty tow tractor. Do not attempt repairs unless you are trained and authorized.
- Look where you drive. Watch out for people, obstructions and drop-offs.
- Operate only from operator's station. Keep hands on grips and feet inside compartment.
- Tow tractors will tip over if not properly operated. Slow down before turning. Do not turn on slopes. Avoid uneven or slippery surfaces and loose materials.

24804

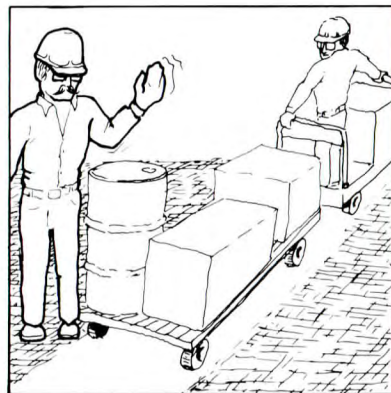


83M119

On the top front panel of your tugger is a list of basic rules for safe operation. These rules are for your protection. Be familiar with them.

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.



24784

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

When operating in reverse direction with a trailer, seek assistance if your vision is obstructed. Moving backwards with more than one trailer is not recommended.

SAFETY



13087

Always obey all posted traffic rules and warning signs.

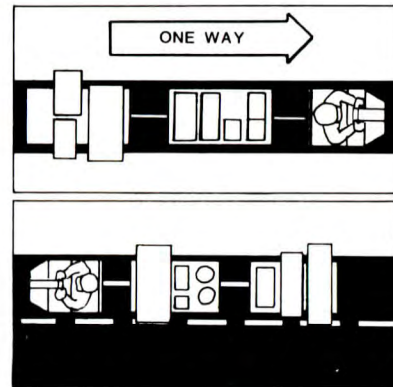
An operator shall give the right of way to ambulances, fire trucks or other emergency vehicles.



24788

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

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



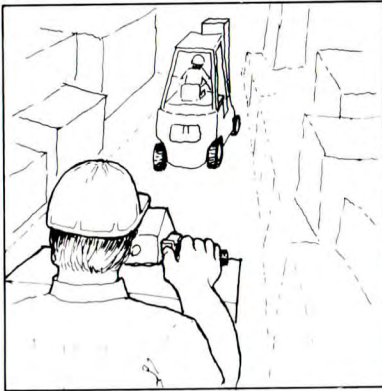
24789

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 a wide load is being towed, keep plenty of clearance when passing other trucks, stationary objects, and people at work.

SAFETY

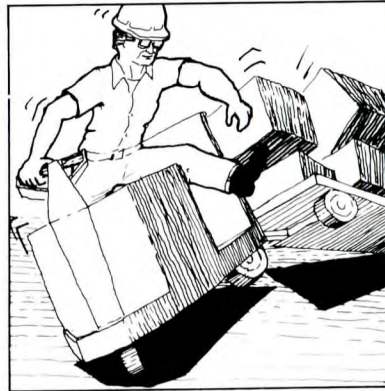


24785

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.

Do not drive a truck near anyone who is standing in front of a bench or other fixed object.

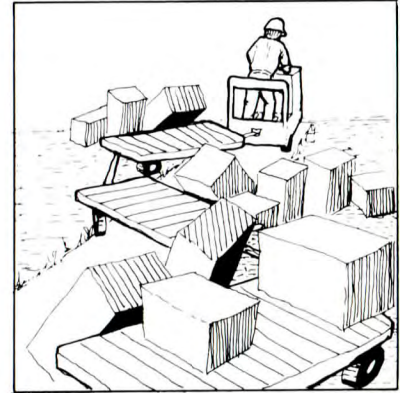
Follow these rules or you can cause injury to personnel and damage to equipment.



24786

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

Remember, operate your truck safely and avoid accidents.

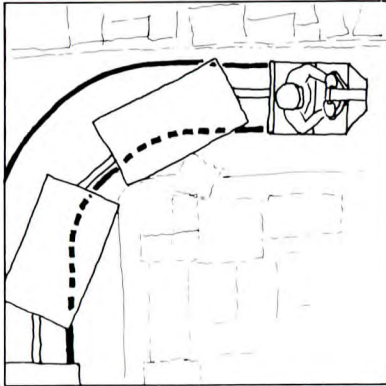


24787

Do not make a fast start or stop. Sudden stopping is dangerous and may cause "jack-knifing" of trailers.

Make sure trailer brakes are not binding, and that trailer tires are inflated to the correct pressure.

SAFETY



24790

Use caution when making a right or left turn into an aisle. Remember the rear wheels do not follow the turn path of the drive wheel.

Also, when making a turn allow for "corner-cutting" of the trailers.



24791

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

Check the trailers to make sure they do not fall over edges.

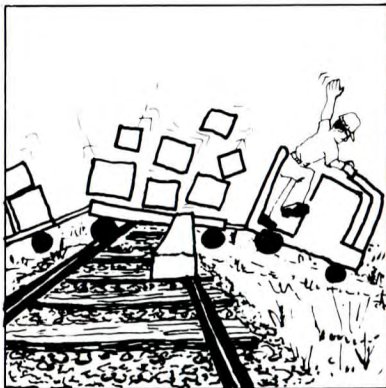


24792

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

Remember, the trailers will try to push the truck while going down ramps. Use caution and make sure all tow bars are secure.

SAFETY

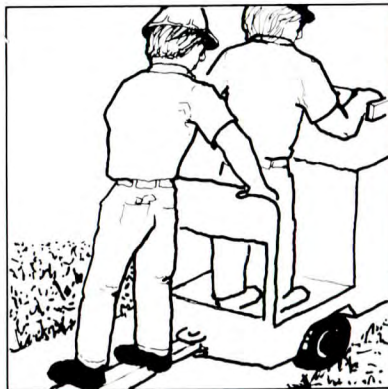


24793

Do not drive over loose objects. Cross railroad trucks diagonally wherever possible.

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

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



24794

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

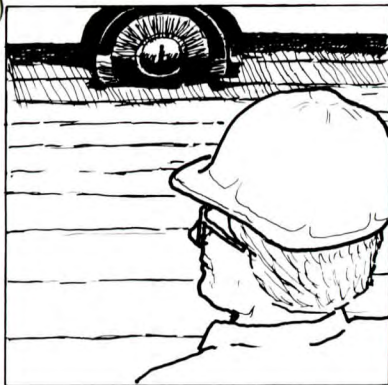
Do not let other personnel ride on the truck or trailers. They can fall off or cause you to have an accident. Tow trucks are designed to pull loads, not carry personnel.



24795

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

SAFETY



24796

Know the floor load limits in all operating areas.

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



CLARK		Industrial Truck Division
BATTLE CREEK, MI	GEORGETOWN, KY	
MODEL NO	TYPE	
SERIAL NO		
	LBS	KGS
CAPACITY		
TRUCK WEIGHT:		
WITHOUT BATTERY		
WITH MAX. BATTERY		
BATTERY WEIGHT:		
MAXIMUM		
MINIMUM		
BATTERY NUMBER		
D.C. VOLTAGE		
MAX. AMP. HOURS		
<small>FOR SPECIAL LOADS AND TRUCK WEIGHTS, PARTS AND SERVICE, CONTACT PART NO. 2756763</small>		

24812A

Pull loads within the capacity of the truck. The safe capacity of a tractor-trailer unit is its stopping ability not its potential towing ability. Don't exceed the rated towing capacity of the tow truck. Operate at a safe speed.

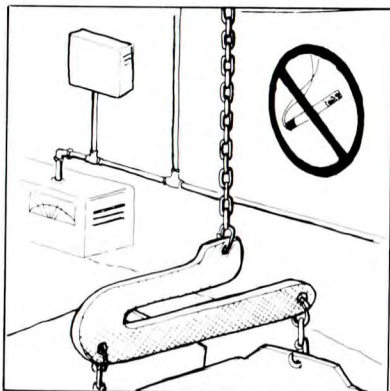
Loads on trailers should be evenly distributed and secure.



24798

Make a record and report all accidents.

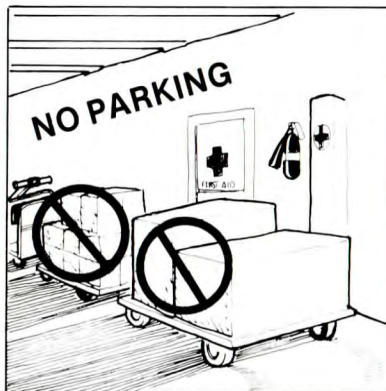
SAFETY



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.



24800

Park your tow truck in authorized areas only.

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

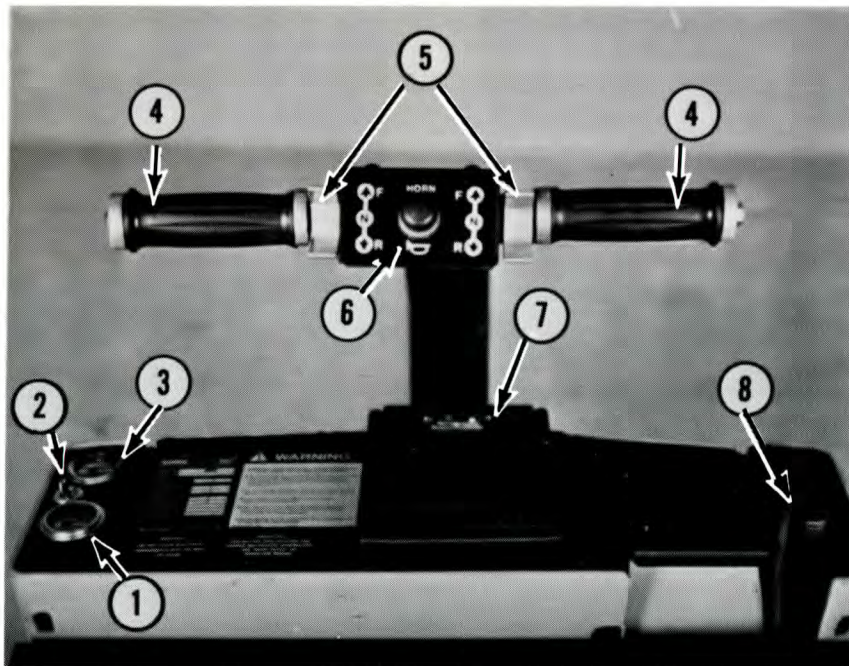


83M123

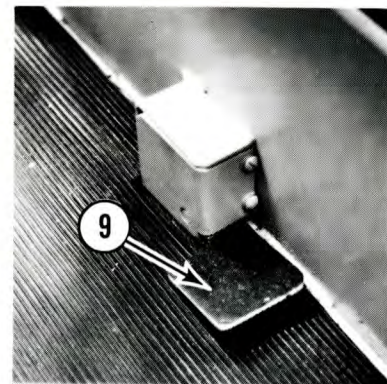
A scheduled planned maintenance and lubrication program should be followed.

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

OPERATOR'S COMPARTMENT AND CONTROLS



83M117B



83M120A

1. Engine Hour Meter (Optional)
2. Power Key Switch (Optional)
3. Battery Charge Meter (Optional)
4. *Steering Control Handle and Brake
5. Forward-Reverse and Speed Control
6. Horn Button
7. Operator's Manual Holder
8. Battery Connector
9. 3rd Speed Foot Pedal

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

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

CHECK ONE: GAS LINES OR DIESEL TRUCK ELECTRIC TRUCK

NAME: _____ OPERATOR: _____ SUPERVISOR: _____

VEHICLE NUMBER: _____ OPERATOR ID: _____ FACILITY: _____ JOB ORDER: _____

✓ Miles Accumly: OK Needs Attention or Repair

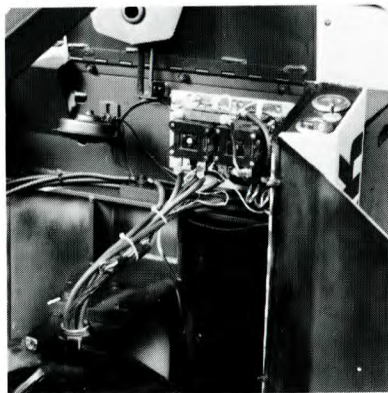
VISUAL CHECKS		OPERATIONAL CHECKS	
TIRE CONDITION		WHEEL	
STEERING AND TAIL LIGHTS		STEERING	
WARNING LIGHTS		SERVICE BRAKES	
FLUID MOTOR		PARKING BRAKES	
OTHER GAUGES AND INSTRUMENTS		HYDRAULIC CONTROLS	
BATTERY CHARGER AND LEADS		SEAT BELT	
BATTERY LOAD TEST		NOTE: WATCH BATTERY INDICATOR WHILE PULLING PULL LEVER TO FULL POSITION. VERIFY TAG IS POSITIONED CORRECTLY TO OPERATE TRUCK PROPERLY.	
BATTERY WATER LEVEL			
ENGINE OIL LEVEL			
FUEL LEVEL			
BATTERY FULL CHARGED			
BATTERY DISCHARGE INDICATOR			
NOTE: SEE OPERATING MANUAL			
INDICATOR IN GREEN AREA			

REMARKS: (WRITE ALL THE REASONS OF FAILURE OF CHECKS)

13124

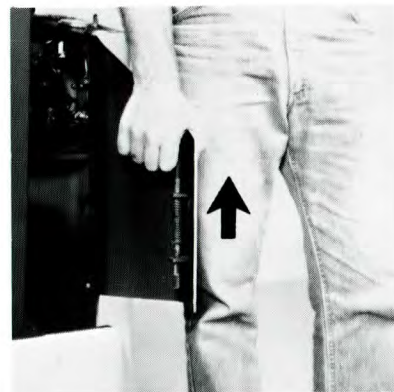
Each operator must complete the daily checklist. Do all of the checks and give list to authorized personnel. See your Clark dealer for copies of the checklist sheets. If the checklist indicates that repairs are needed, do not operate the truck. Attach a "WARNING" tag to the control handle.

BEFORE OPERATION



83M121

Lift the front top cover until it is in the locked position.



83M122A

Reach inside the drive unit compartment and pull up on the access door latch.

Move steering handle fully to the left or right until handle is away from doors. Open the doors.

BEFORE OPERATION



83M123

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.



83M124

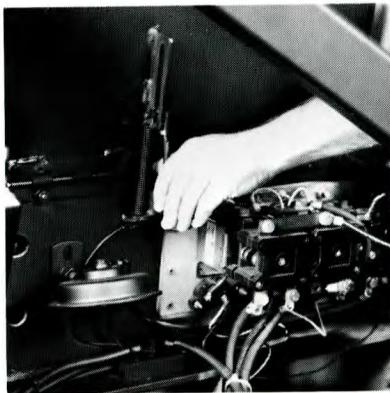
Inspect the drive unit. Look for leakage and guide roller damage. Check the drive wheels for flat spots or pieces missing from the tire.



83M122

Close the drive unit compartment doors and put the latch in the locked position.

BEFORE OPERATION



83M125

Pull the drive unit cover latch forward to unlock it and carefully lower front top cover.



83M126

Open operator's manual holder. Make sure operator's manual is inside. If manual is not inside, list as missing on daily checklist.

Read and know the contents of your operator's manual. This manual will help you know your truck.



83M127

Lift the battery cover. Visually check battery connector. Check the condition of electrical cables and wiring and make a report of all worn or cracked cables.

BEFORE OPERATION



83M128

Check the condition of the rear wheels. Inspect for flat spots and pieces missing from the tire.



83M129

Turn the key switch to the "ON" position (if equipped). Check the operation of the hour meter (if equipped).

Check the operation of the battery meter. If the indicator is in the red area, have the battery charged before operating the truck.



83M131

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



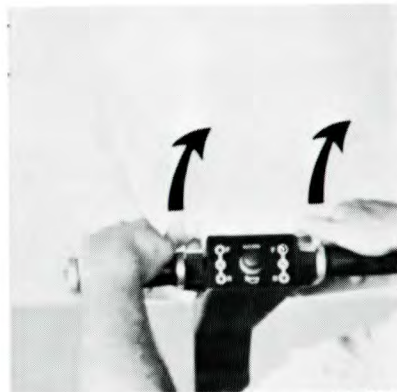
83M133A

Position yourself in the operator's compartment. With the handle in the brake position, turn the directional control in the forward, then reverse travel direction. The truck should not move in either direction.



83M130A

Pull the control handle down to operating level.



83M132A

Put the thumb of right (or left) hand on the forward directional control and operate the truck slowly in first speed. Truck will move forward slowly. Travel speed may be increased by pressing more on the directional control.

Truck should accelerate in a smooth forward direction through all speeds.

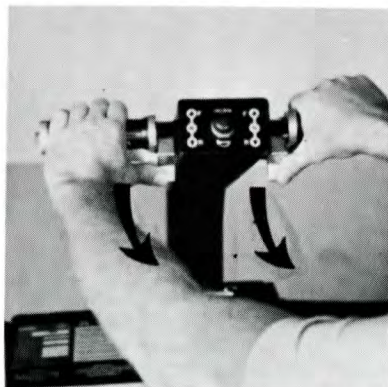
BEFORE OPERATION



83M133B

Release thumb pressure on directional control and raise handle to activate truck brake and stop forward travel.

Brake operation must slow the truck to a smooth stop within normal distance. If brakes do not operate correctly, write the problem on daily checklist and **DO NOT** operate the truck until brakes are repaired.



83M134A

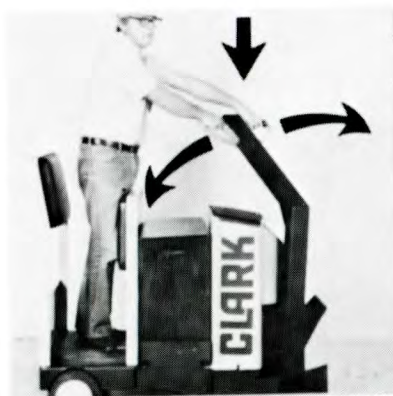
Lower the handle to operating position and put thumb of right (or left) hand on the reverse directional control and operate the truck slowly in first speed. Truck should move in a smooth reverse direction through all speeds.



83M119A

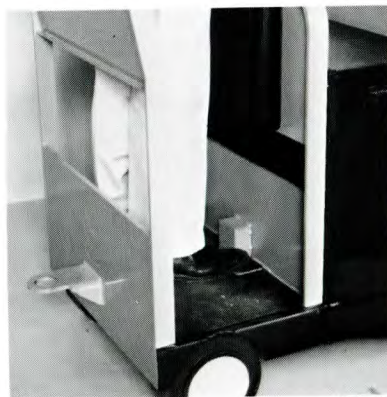
Release thumb pressure from directional control and raise handle to activate brake and stop reverse travel. Brake operation must slow the truck to a smooth stop within normal distance.

BEFORE OPERATION



83M135A

Put the control handle in the operating position. Push the forward directional control and slowly move truck. Check steering by moving handle fully through 180° arc from right to left and return. Handle should move smoothly through the full steering operation.



83M136

Check the maximum speed operation in an area where speed can safely be reached. Move truck in forward direction with directional control fully depressed. Step on 3rd speed foot pedal.

You should be able to feel the increase in speeds as 3rd speed is activated after time delay.

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

CHECK ONE GAS/LPG OR DIESEL TRUCK ELECTRIC TRUCK

DATE: _____ OPERATOR: _____ SUPERVISOR: _____

HOURS: _____ START TIME: _____ END OF DAY: _____ JOB TITLE: _____

Starts Accurately OK Needs Attention Of Repair

VISUAL CHECKS		OPERATIONAL CHECKS	
TIRE CONDITION		WORN	
HEAD AND TAIL LIGHTS		STALLED	
WARNING SIGNALS		SERVICE BRAKES	
HOUR METER		PARKING BRAKES	
OTHER GAUGES AND INSTRUMENTS		AUTOMATIC CONTROLS	
BATTERY CHARGED AND LEADS		SLIP BRAKES	
CHARGE TO LEVEL		BATTERY LOAD TEST	
INDICATOR WATER LEVEL			
FUEL LEVEL			
BATTERY FULL CONNECTION			
NOTE TO USE THE BATTERY FULL INDICATOR WHEN FULL			
BATTERY DISCHARGE INDICATOR			
NOTE TO USE THE BATTERY DISCHARGE INDICATOR WHEN FULL			

REMARKS: LISTEN FOR ALL VIBRATIONS OR NOISES AT STARTUP

13124

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

BEFORE OPERATION



83M137



WARNING



AVISO

THIS TRUCK IS IN NEED OF REPAIR (SEE REVERSE SIDE).

OPERATION OF THIS VEHICLE MAY CAUSE INJURY TO YOU OR THE MACHINE. FOR FURTHER INFORMATION CALL _____

DATE _____ PHONE _____

REMOVE THIS SIGN ONLY AFTER REPAIRS ARE MADE.

ESTA MÁQUINA NECESITA REPARARSE. (VER OTRO LADO)

LA OPERACIÓN DE ESTE VEHÍCULO LE PUEDE OCASIONAR DAÑOS PERSONALES A UD. O PODRÍA DAÑAR LA MÁQUINA. PARA MAYOR INFORMACIÓN LLAMAR A _____

FECHA _____ NO. TELÉFONO _____

QUITAR ESTE AVISO SOLAMENTE DESPUÉS DE QUE SE HAYA TERMINADO LA REPARACIÓN.

10 000 0001 MAR 92

24805

If after reviewing your daily checklist, you have found that the truck is damaged or not safe to operate, attach a "WARNING" tag to the control handle.

Information on the warning tag should describe the problem.

Notify your supervisor or maintenance personnel.

OPERATION



83M133

Remove wheel chocks.
Position yourself correctly in the operator's compartment.



83M129

Connect battery connector to battery receptacle if disconnected.
Turn key switch to "ON" position if so equipped.



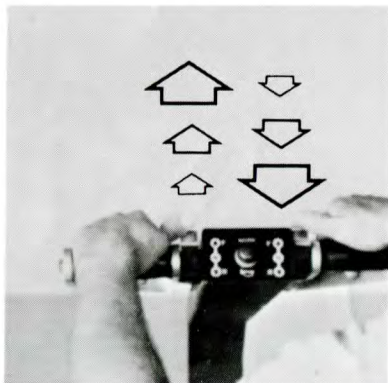
83M119

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



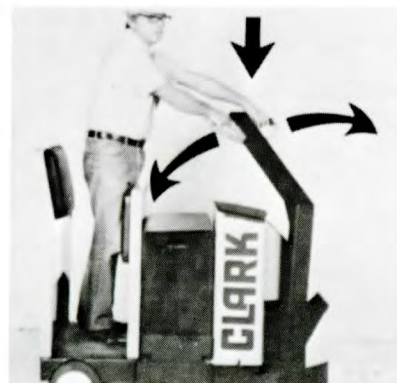
83M130A

Pull the control handle down to operating position.



83M132B

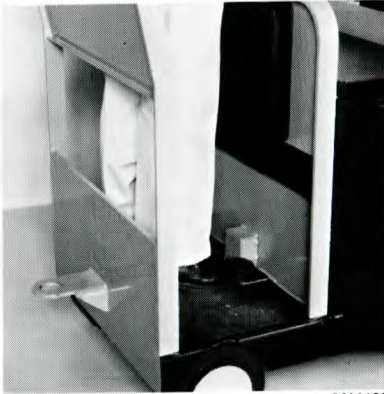
Put the thumb of right (or left) hand on the forward directional control and operate the truck slowly in first speed. Truck will move forward or reverse slowly. Travel speeds may be increased by pressing more on the directional control.



83M135A

Move the handle right or left to go in desired direction. The handle will move 90° each direction from center position.

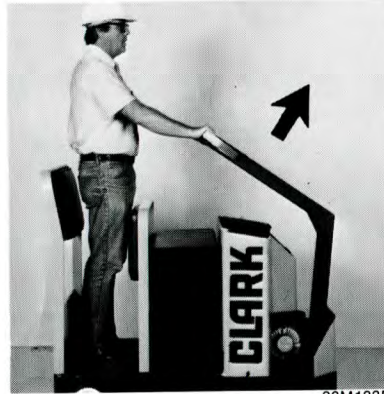
OPERATION



83M136

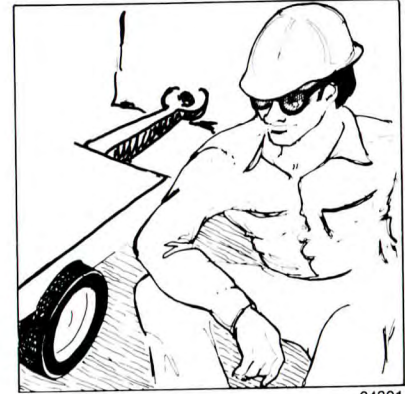
To increase speed to maximum while moving, put your right foot on the 3rd speed pedal and press it down fully.

Remove your foot from the pedal to decrease speed to 2nd speed. Reduce thumb pressure on directional control to get slower speeds.



83M133B

Release thumb pressure on directional control and raise handle to apply truck brake and stop forward or reverse travel.

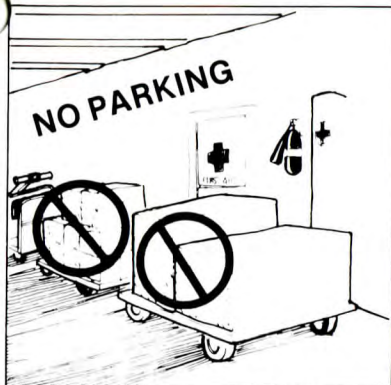


24801

Slowly move truck in reverse direction to align with cargo trailer tongue. Attach trailer tongue to the eye or coupler of the truck.

Make sure pin or coupler is in correct position and secure. Check the cargo on the trailer(s), make sure loads are stacked evenly and securely. Start slowly and drive carefully.

PARKING



24800

Park your tow truck in authorized areas only. Make sure truck or trailers do not block fire aisles, fire equipment, stairways or walkways.



83M129

Turn off the power key switch (if so equipped) and remove key.

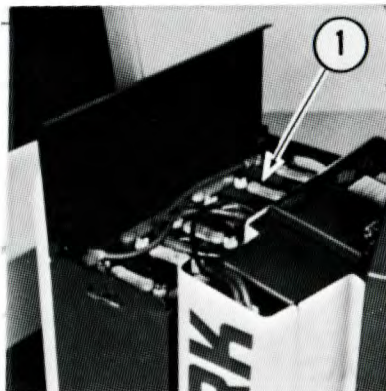
Put chocks against the wheels if truck is parked on an incline.

BATTERY RETAINMENT/CARE

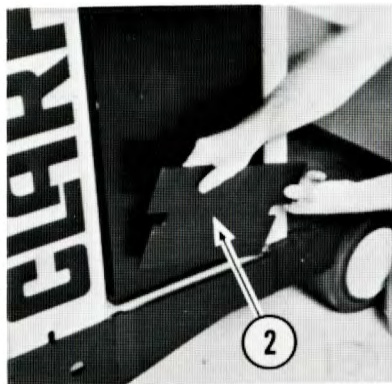
IMPORTANT

1. Use only batteries that meet the following specifications.

	<u>PT 5</u>	<u>PT 7</u>
Voltage	12	24
Minimum Battery Weight	500 lb.	800 lb.
Maximum Battery Size	32"W x 8"L x 26.25"H	32"W x 13.25"L x 31"H
	with cover	with cover



83M127A



83M138A

2. Make sure that battery retention plates are in correct position and secure.

DO NOT DISCARD Battery Retainment Plates

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.



WARNING BATTERY SERVICE

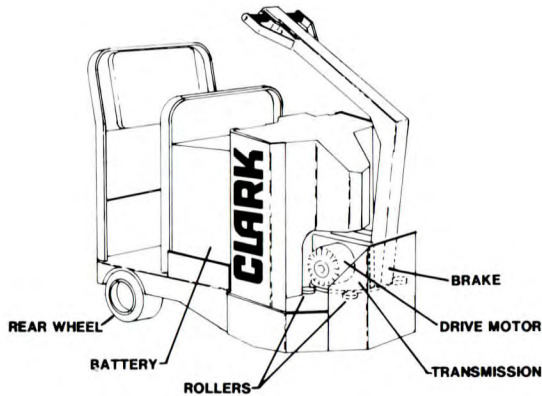
BATTERY SERVICE MUST BE DONE BY TRAINED PERSONNEL. BATTERY ACID CAN CAUSE SEVERE BURNS AND INJURY.

MAINTENANCE AND LUBRICATION

Lubrication and Maintenance Chart

A = Hours
 B = Daily (8 Hours)
 C = Weekly (40 Hours)
 D = Semi-Annually (1000 Hours)

A B C D



1. Inspect truck for obvious damages and leaks (Driver's Daily Checklist).
2. Check Drive Unit Fluid level (1/2" below opening)
3. Change Drive Unit Oil (SAE 80)
4. Grease rear wheels (NLGI #1 or equivalent)
5. Grease transmission rollers (NLGI #1 or equivalent)
6. Charge, service and clean battery.
7. Check brake and interlock operation.
8. Break-in period change Drive Unit Oil (and grease rear wheels)
9. Check battery water level.
10. Equalize battery charge.
11. Inspect wiring, scrub battery.
12. Check contactor points and clean motor commutator.
13. Adjust brake and interlock.
14. Adjust Drive Unit rollers.

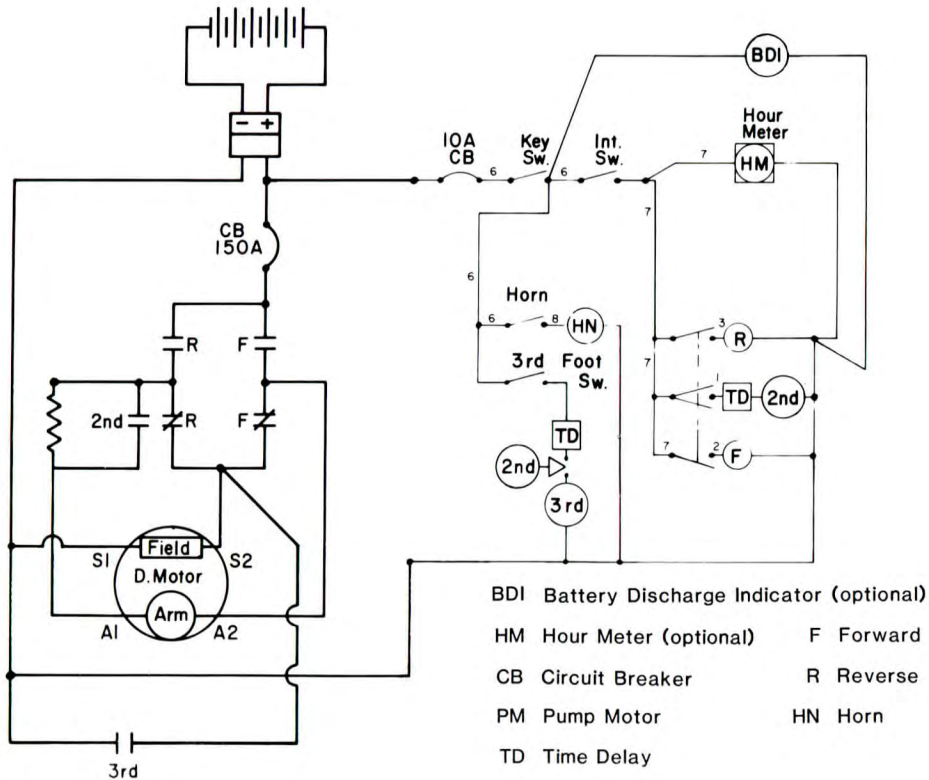
	A	B	C	D
		•		
			•	
150				
150				
80				
		•		
		•		
100				
			•	
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MAINTENANCE AND LUBRICATION SERVICE GUIDE

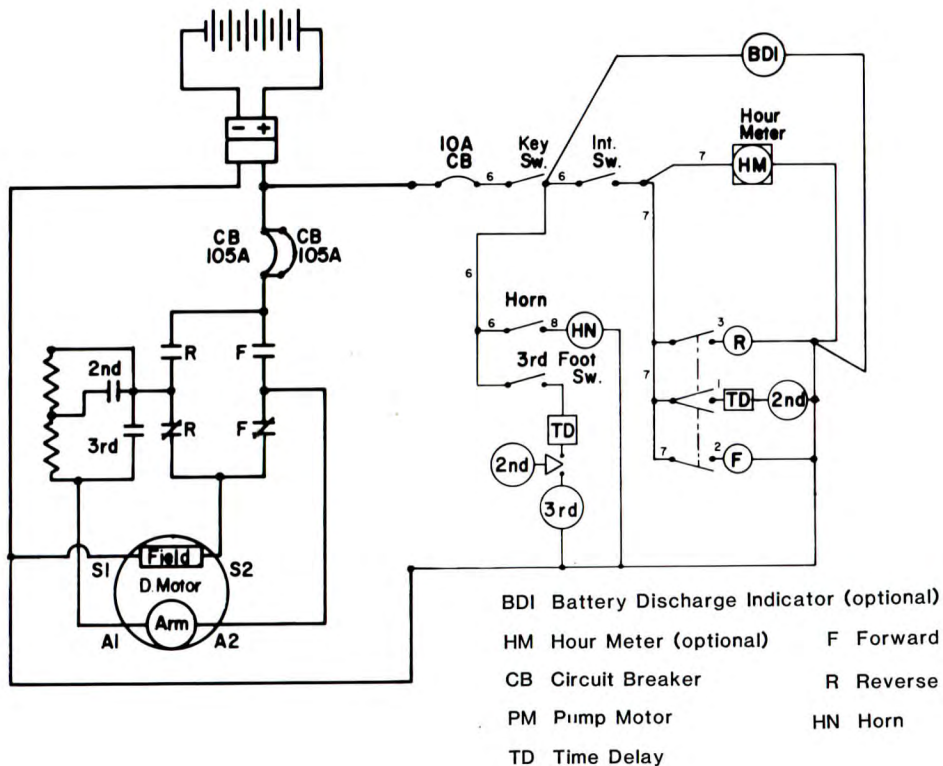
SYMPTOM	POSSIBLE CAUSE	REMARKS
No Operation	Battery Disconnected Battery Discharged Control Circuit Breaker Open Battery Shorted Open Circuit — Power or Control	Connect Battery Charge Battery Short Circuit Check Cables Check Circuits
Sluggish Performance, Erratic Switching	Battery Discharged Defective Power Circuit	Charge Battery Check Fittings and Wires to Panel
Circuit Breaker(s) Open	Short Circuit Overload Defective Circuit Breaker	Inspect Circuits Study Duty Cycle, Reduce Load Replace Circuit Breaker

CAUTION: DO NOT PERFORM ANY MAINTENANCE ON THIS TRUCK UNLESS YOU ARE TRAINED AND QUALIFIED TO DO TRUCK REPAIRS.

ELECTRICAL SCHEMATIC



ELECTRICAL SCHEMATIC



For Handy Reference

RECORD THE FOLLOWING INFORMATION PERTAINING TO YOUR TRUCK

Model No.

Serial No.


Attachments

Truck Weight W/Battery

Truck Rated Capacity

Gross Truck Weight (W/Battery and Rated Load)

Customer Truck Identification No.



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

CLARK Industrial Truck
Division

Battle Creek, MI 49016
Georgetown, KY 40324
St. Thomas, Ontario, Canada N5P1H2

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