

Operator Manual





WARNING

It's the law, you must be trained and certified to operate this truck.
(OSHA § 1910.178)

You or others around you can be seriously injured or even killed if you don't use this truck correctly.

Read and obey all warnings and instructions in this Manual* and on the truck.

Head, arms, hands, legs or feet outside the operator compartment can be pinned or crushed whenever the truck is moving. Stay within the operator compartment and **stop the truck completely before getting off.**

However, tipovers and falls from docks can cause serious injury or even death. **Immediately exit and move away from the truck in these emergencies.**

Inspect your truck before starting work, make sure it is in good working order.

* Additional copies of this Operator Manual and all Truck Labels can be obtained from Crown Equipment Corporation, New Bremen, Ohio 45869 U.S.A.

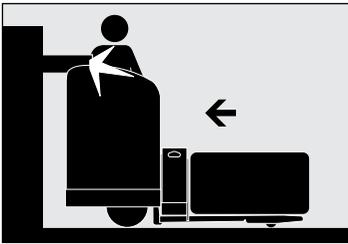
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You Must be Trained

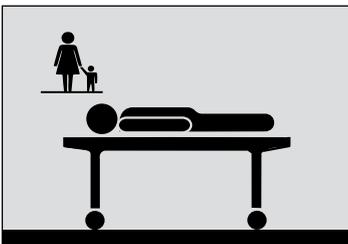


IT'S THE LAW, YOU MUST BE TRAINED AND CERTIFIED

Federal law states that only properly trained operators are permitted to operate a powered industrial truck and that your employer must train you and certify that you are qualified to operate this powered industrial truck. (OSHA §1910.178)



Do not operate this truck in your work place until you have been trained and certified by your employer.



You could be killed or seriously injured if you are not adequately trained for lift truck operation!

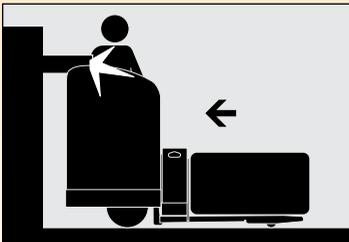
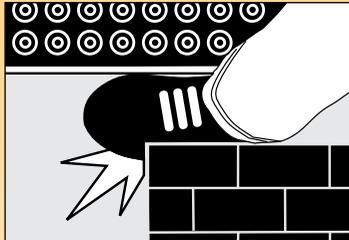
Protect Yourself

Know the Hazards



DRIVE CAREFULLY

- Keep your hands on the controls and your left foot on the pedal. Keep your body within the operator compartment.
- Never stick a foot or any part of your body outside the operator compartment, no matter how slow the truck is moving. You cannot stop 3,000kg or 7,000 pounds with any part of your body. A foot or hand caught between the truck and a object will be crushed or even cut off.
- Don't put hands or arms over the load backrest.
- Stay away from the edge of docks and ramps. Make sure dockboards are secure. Check that trailer wheels are chocked. You could be seriously injured or even killed in a fall from a dock or dockboards.
- Keep your truck under control at all times. Drive at a speed that allows you to stop safely. Be even more careful on slippery or uneven surfaces. Do not drive over objects on the floor.
- Perform all truck movements smoothly and at a speed that will give you time to react in an emergency.

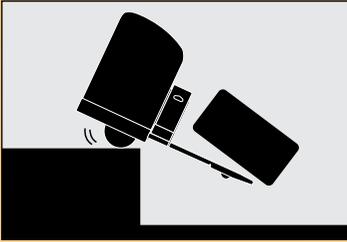


LOOK WHERE YOU'RE GOING

- You could be pinned or crushed by objects intruding or poking into the operator compartment.
- Always be alert to the area around you and watch where you are driving.
- Don't use cell phones or similar devices while operating the truck.
- Travel in the direction where you have the best visibility.



Know the Hazards



AVOID FALLS AND TIPOVERS

Falls from docks and tipovers are very serious accidents; you can be crushed or even killed. Immediately exit and move away from the truck in these emergencies.

Note: This is not like sit-down counterbalanced trucks, where it is recommended that the operator stay with the truck. The best way to prevent injury is to know where you are at all times and follow the rules of safe truck operation.

- Be extremely careful when working around docks, dockboards and trailers.
- Be certain that trailer wheels are chocked. Check that the trailer is locked to the dock.
- Properly install jack stands to the front of the trailer when a tractor is not attached.

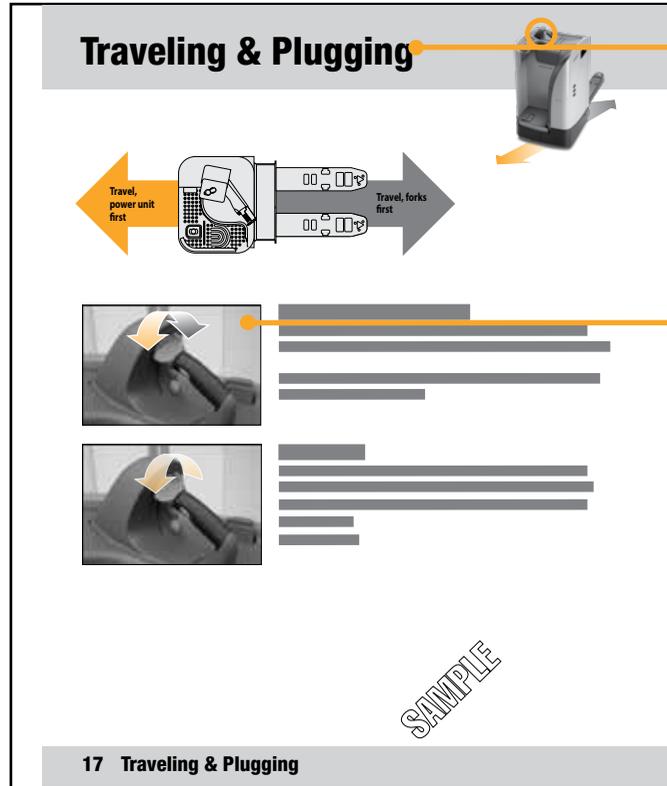


USE YOUR TRUCK SAFELY

- Keep your hands and feet away from all moving parts such as forks and wheels.
- Never allow passengers anywhere on the truck. There is no safe place for them.
- Before you leave your truck:
 - Come to a complete stop.
 - Lower the forks to the floor.
 - Shut the truck off with the key or log out.

Contents

Warning	1
You Must be Trained	2
Protect Yourself	3
Contents	5
What's in it for You?	6
Your Rider Pallet Truck	7
Lift Truck Parts	9
Capacity Plate	11
Display	13
Power On & Off	15
Braking	17
Traveling & Plugging	19
Raising & Lowering	21
Steering & Travel	23
Two Types of Steering	25
Additional Options	27
Daily Safety Check	29
Be a Safe Driver	31
Power Sources	35
Charging Power Sources	36
Lithium-ion	37
Flooded Lead Acid Batteries	39
Warning Labels	42



What's in it for You?

WHAT'S IN IT FOR YOU?

The better you understand your truck and how to use it, the better and safer operator you can be. Here are some guides to using this manual.

QUICK LOCATORS

In addition to the "Contents" page you can use page headings to find topics. Some pages also have a picture of the truck in the corner showing features or functions covered on that page.

HOW-TO-DRAWINGS

On many pages you will find pictures as well as text to help you understand how to use your truck safely and productively.

"KNOW THE HAZARDS"

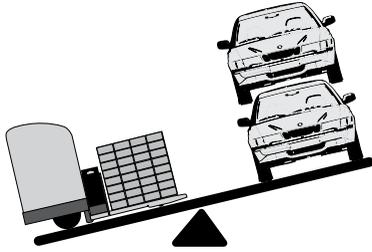
Watch for and read these special blocks. You will find information about possible safety hazards and how to avoid them.



 **Know the Hazards**

Traveling & P

Your Rider Pallet Truck



RIDER PALLET TRUCKS

Your rider pallet truck is designed to move loads over long distances.

YOUR PALLET TRUCK IS NOT AN AUTOMOBILE

With a load it may weigh more than two automobiles.

- You don't steer the same.
- You don't brake the same.
- You don't accelerate the same.

HOW TO DRIVE YOUR TRUCK

Stand sideways with both feet on the pedals and lean back against the pad. This, along with your hands on the controls, gives you both comfort and stability. Plus you can see and travel in either direction simply by turning your head.

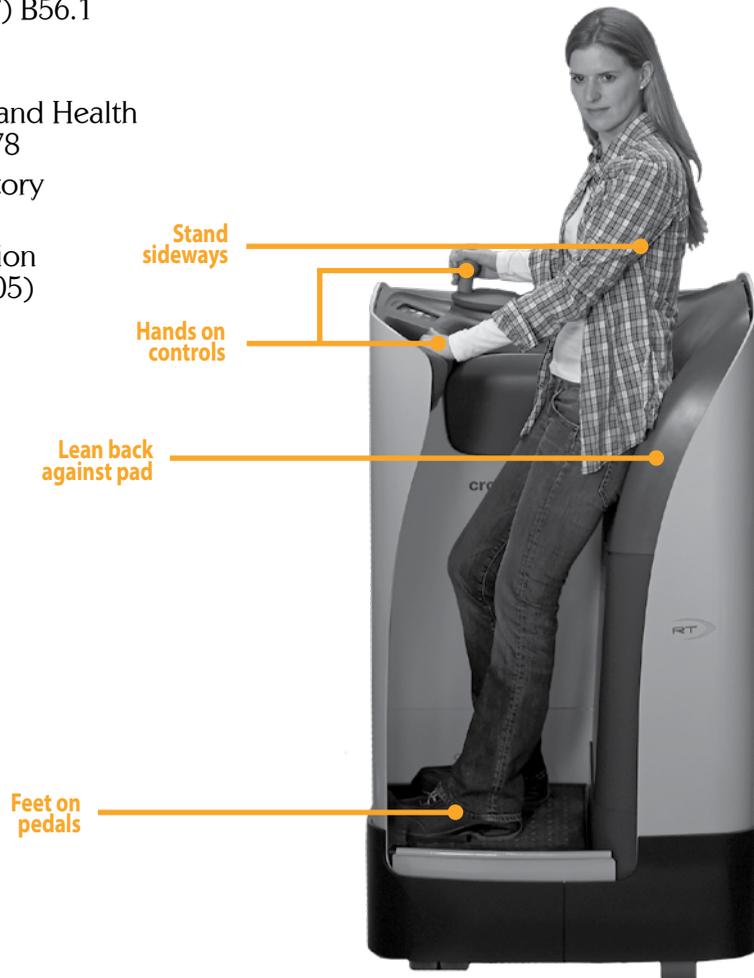
GIVE YOUR BODY A BREAK

Take advantage of stop time. Get off the truck and flex your arms and legs. Staying alert will help you be a better and safer driver.

BUILT TO STANDARDS

This truck was designed and built to current industry and government standards and guidelines. For more information see the following:

- American National Standards Institute (ANSI/ITSDF) B56.1 (Download free from www.itsdf.org)
- Occupational Safety and Health Act (OSHA) §1910.178
- Underwriters Laboratory (ANSI/CAN/UL 583)
- National Fire Prevention Association (NFPA 505)



Lift Truck Parts





Capacity Plate



CAPACITY PLATE INFORMATION

The capacity plate is inside the operator compartment. It contains:

- Capacity information
- Truck type (a fire safety rating)
- Truck weight (does not include load)
- Grade rating
- Battery information
- Truck information

SAMPLE CAPACITY PLATE

The information shown on this sample plate does not apply to your truck.

WHAT IS YOUR TRUCK CAPACITY?

Capacity is the maximum load that can be lifted or transported with your truck. See the capacity plate on your truck. Make certain you use the correct units of measure.

	Units of measure: kg/mm (lb/in)	Max. Grade	Battery Weight	D.C. Voltage
	Capacity w/ Equally Distributed Load	10 %	245 (540) Min 500 (1100) Max	48
	Truck Weight with Max. Battery	Hour Rate	Truck Data Number	Battery Type
	1192 (2628)	5		E
	Truck Weight Less Battery ± 5%	Max. AMP Hr.	Model Number	Truck Type
	692 (1526)	620	RT4000	E
			Serial Number	
			12345678	
This truck as released complies with the mandatory requirements of ANSI / ITSDF B56.1 Manufactured by Crown Equipment Corporation, Crown Equipment Corporation crown.com				8389-000A



Know the Hazards

KNOW YOUR LOAD

Do not exceed the capacity shown on your truck's capacity plate. Be careful when handling long, high or wide loads. Do not handle unstable loads.

TRUCK WEIGHT

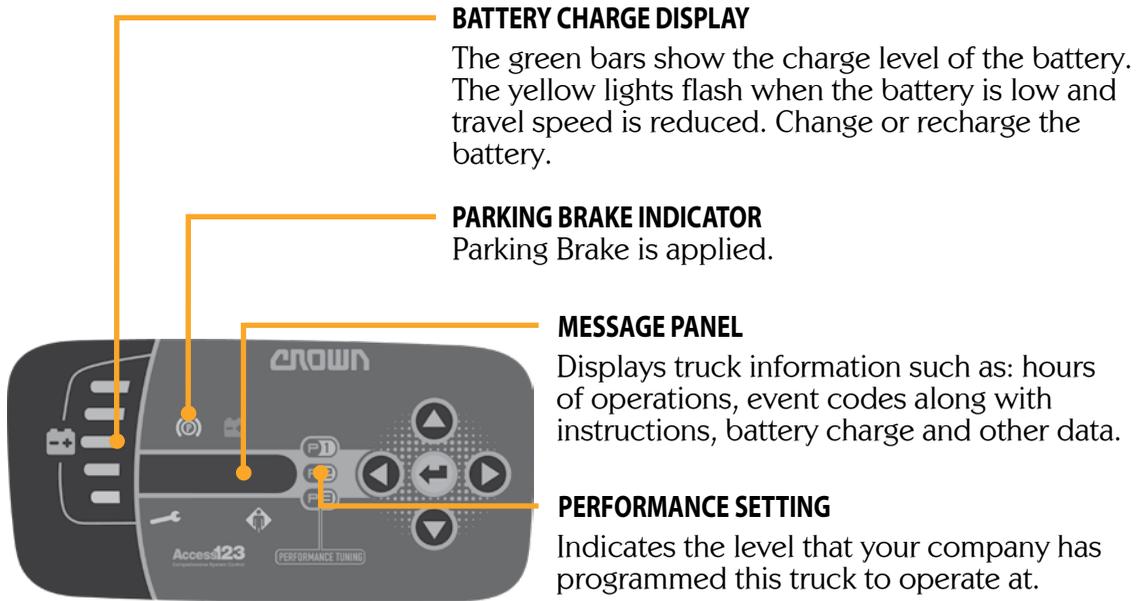
Dockboards, elevators and some floors have limited capacity. Check your capacity plate for the weight of your truck. Remember to add the weight of the load you have on the forks. Make certain you use the correct units of measure.

TRUCK TYPE

Some truck types are not permitted in areas where there are fire hazards. Watch for marked areas. *For example:*

You must not drive a type E or ES truck into an area restricted to EE or EX trucks.

Display





ENTER OR RETURN BUTTON

Use to navigate in and out of menus and select inputs.

NAVIGATION BUTTONS

Up, Down, Left, and Right Arrows are used to scroll through menus.

EVENT LIGHT (OPERATOR CORRECTABLE)

The display shows the code for a detected event which the operator can correct. See the display for instructions.

SERVICE LIGHT (SERVICE REQUIRED)

The display shows the code for a detected event which requires service. Contact your supervisor or service department.

Power On & Off



KEY SWITCH OPTION

Turn the key clockwise to turn the truck on. Turn the key counter clockwise to turn the truck off. Always turn the key to off when leaving the truck.



DISPLAY OPTION

Press and hold the  button for two seconds to turn on the truck. Enter your user code when **PIN** appears on the display. Press and hold the  button for three seconds to turn off the truck.



FOOT PEDAL/PAD

Place your left foot on the brake pedal. Turn the truck ON. Lift your left foot and return it to the brake pedal. The truck is ready for operation.



ENTRY BAR® SAFETY SWITCH

Always keep your feet in the operator compartment and clear of the entry bar.

If you put your foot on the entry bar while traveling, the alarm will sound and the truck will slow to a stop.



EMERGENCY DISCONNECT

Push the Emergency Disconnect button to cut power to the truck. Do not use the emergency disconnect as a brake.

Use the Emergency Disconnect to shut down the truck any time it isn't working correctly. Notify your supervisor.

To reconnect the battery and reset the Emergency Disconnect, pull the button up.

Braking



BRAKING

Before you start working, test the brake.

In an open area, first check braking at a slow travel speed and then at a faster one.



BRAKE OFF

Step all the way down on the left pedal. The brake is now "off" and you can travel.



BRAKE ON

Lift your heel or move your foot off the brake pedal to apply the brake. Keep a part of your foot in contact with the floorboard.

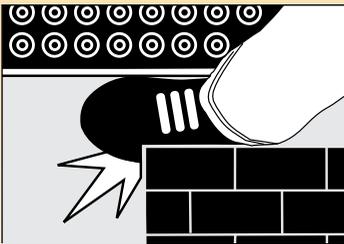
Know the Hazards



WATCH YOUR FEET

Keep your feet inside the truck and on the pedals at all times. This truck weighs about 3,000kg or 7,000 pounds. You cannot stop or even slow down that much weight with your foot or any part of your body, no matter how slow the truck is moving.

A foot or hand caught between the truck and a wall, post or any object will be crushed or even cut off.

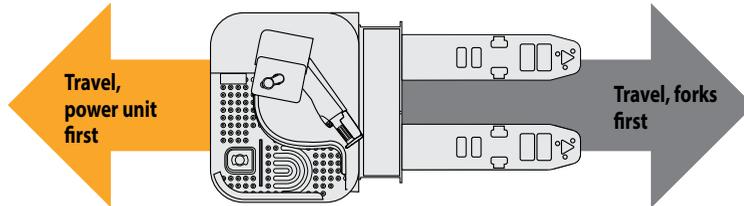


MAKE SURE YOUR BRAKES WORK

Test the brake on your truck at the start of each shift. Know the distance it takes to stop before you start working.

If at any time the stopping distance is too long for you, do not drive your truck. Notify your supervisor.

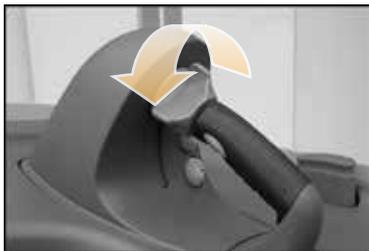
Traveling & Plugging



TRAVELING

Move the Forward/Reverse rocker in the direction you want to travel.

The farther you move the rocker from the neutral position, the faster the truck will move.



PLUGGING

Plugging is another way to slow down your truck. While the truck is moving, in either direction, move the Forward/Reverse rocker through neutral to the opposite direction of travel. Plugging will not hurt your truck.



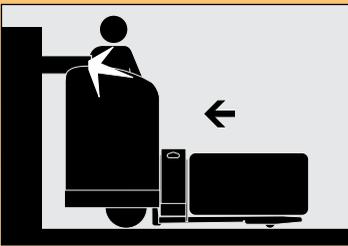
HORN

Push the switch on the underside of the grip to sound the horn. Use it to warn pedestrians and other drivers.

Use your horn when you come to an intersection or a crosswalk.



Know the Hazards



LOOK WHERE YOU'RE GOING

Driver distractions can cause accidents resulting in injury or even death.

- Don't use cell phones or similar devices while operating the truck.
- Travel in the direction where you have the best visibility.
- You could be pinned or crushed by objects intruding or poking into the operator compartment.
- Always be alert to the area around you and watch where you are driving.

BRAKING VS. PLUGGING

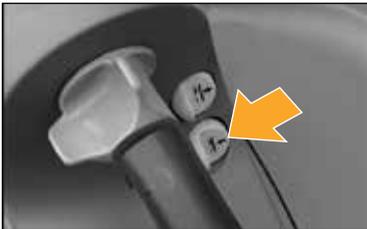
Of the two, braking is designed to stop the truck in the shortest distance. Use braking in an emergency, on ramps or in busy areas.

Raising & Lowering



RAISING

Push the RAISE button until the forks are at the desired height.



LOWERING

Push the LOWER button until the forks are at the desired height.

Steering & Travel



LIFT TRUCKS ARE NOT LIKE AUTOMOBILES

Your lift truck does not steer or drive like an automobile. Be sure you are trained to operate this truck. Drive slowly until you get used to the steering and all other controls.



STEERING AND DRIVING

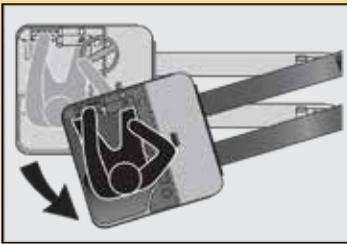
You will need to drive your truck both in the direction of the forks (forks first) and also away from the forks (power unit first or forks trailing). Steering is not the same in both directions.

SIMILAR LOOKING TRUCKS CAN BE DIFFERENT

This style truck can be built with one of two different types of steering. Your company has selected the type which is best for your work area.

Caution: If you ever drive a different truck, even one that looks like yours, be careful. The steering may be different.

Know the Hazards



POWER UNIT SWING

Be careful turning while traveling forks first. The power unit will swing wide in the opposite direction. Make sure you have clearance, and watch out for people in the area.



SLOW DOWN FOR SPILLS OR WET FLOORS

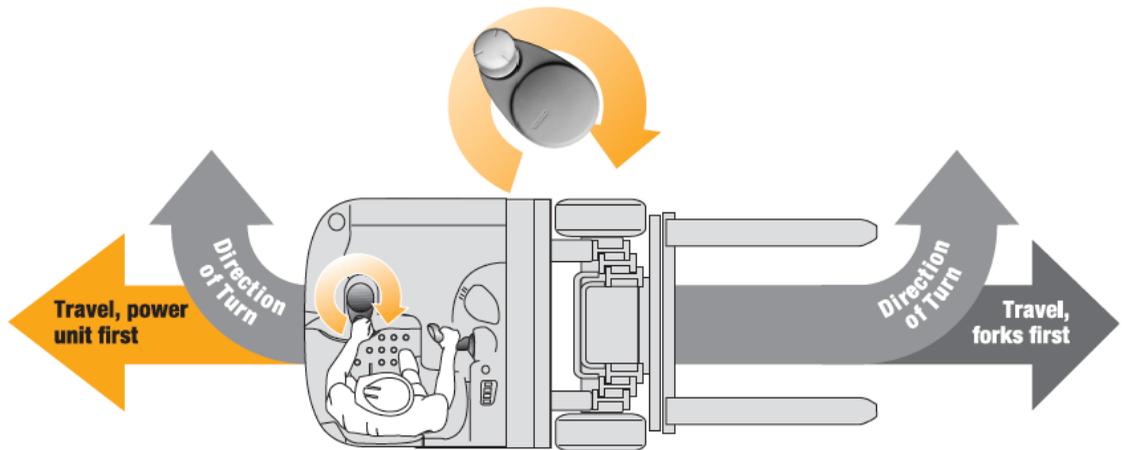
Powder or liquid spills can cause slippery floors. Slow down or you could lose control of steering and braking. Be careful and allow for a longer stopping distance.

Don't run over objects on the floor.

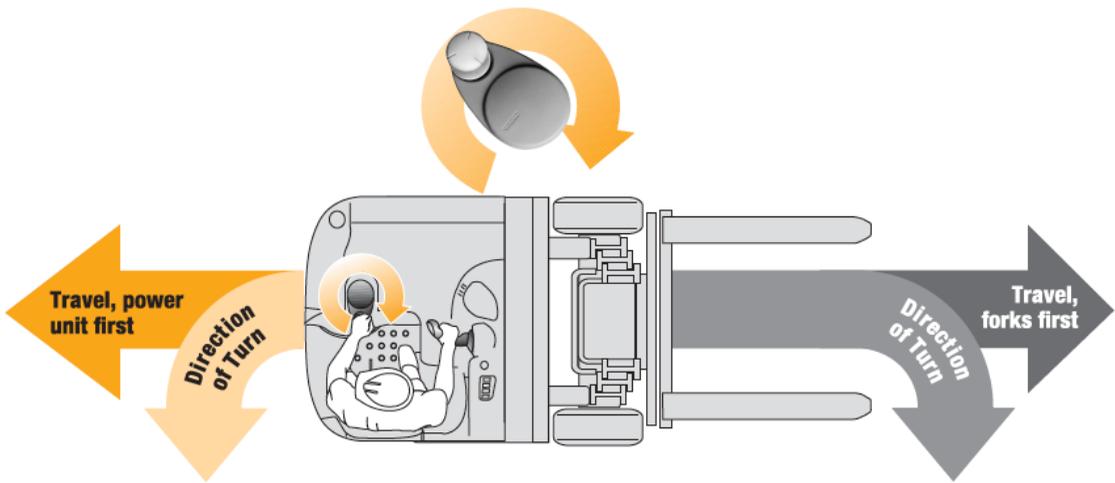
Two Types of Steering



- 1 REAR DIRECTIONAL STEERING (Sometimes called Reverse Steering.)**
Shows direction truck will turn when steering handle is turned clockwise.



2 FRONT DIRECTIONAL STEERING (Sometimes called Forward Steering.)
Shows direction truck will turn when steering handle is turned clockwise.



Additional Options

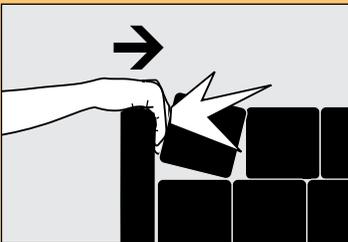


LOAD BACKREST OPTION

Your company may have requested a load backrest if you must handle loads that are unstable or not secure.

Don't place your hands or arms over the backrest or through the holes. They could be pinned or crushed by the load.

Know the Hazards



WATCH YOUR HANDS AND ARMS

Don't put your hands or arms over the load backrest.

SIMILAR LOOKING TRUCKS CAN BE DIFFERENT

Your company has selected the options which are best for your work area.

If you ever drive a different truck, even one that looks just like yours, be careful. It may not have the same steering or options.

Daily Safety Check

CHECK YOUR TRUCK BEFORE STARTING WORK

You must make sure your truck is safe to use.

1. Walk around your truck and check it over.

- Check to make sure the battery is charged. Don't use an open flame to check the battery. Check the battery connector, battery terminals, and battery cables for damage.
- For flooded lead acid batteries, check battery water level. Don't use an open flame to check the battery. Be sure vent caps are in place.
- Make certain the battery retainers on both sides of the truck are properly installed.
- See that all wheels are in good condition.
- Clean the forward/reverse rocker and steering handle.
- Check that both forks are straight and not cracked or badly worn.
- See that the load backrest is in place and fastened if your truck has that option.
- Look under the truck for signs of hydraulic leaks.
- Try the horn.
- Make sure the power disconnect works.
- Check that all controls work smoothly.

2. Test drive your truck in an uncongested area.

- Try all the hydraulic functions.
- Check the steering.
- Drive the truck slowly in both directions.
- Drive through the full speed range in both forward and reverse.
- Check braking and plugging distances in forward and reverse. Load size and floor conditions can affect these distances.
- If at any time the stopping distance is too long for you, do not drive your truck. Notify your supervisor.

If anything doesn't look, work, feel or sound right, do not operate your truck. Notify your supervisor.

You can get checklist forms from your Crown dealer (part no. OF3772). Used properly, this checklist can alert service people to needed repairs.

Be a Safe Driver



*The most
important
component
is you.*

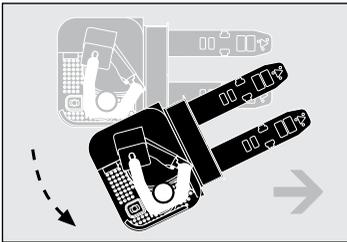
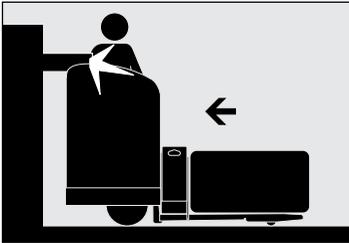


MAKE SURE YOU ARE READY TO DRIVE

- Do not use this truck unless you are trained and certified.
- Be certain you understand how your truck works and the hazards that go with it. Don't drive the truck if you have any doubts.
- Know the capacity of your truck. Make certain you use the correct units of measure.
- Some trucks are not allowed in areas where there are fire hazards. Be certain your truck is the correct fire safety type for the area.
- Make sure your hands and shoes are clean and dry, and your clothing is proper for the job.

MAKE SURE YOUR TRUCK IS READY

- Inspect your truck before using it. If your truck is not working correctly or is damaged, do not use it. Notify your supervisor.
- In an open area, test the braking. Check at a slow travel speed first, then a faster one. Know the distance it takes to stop before you start work.

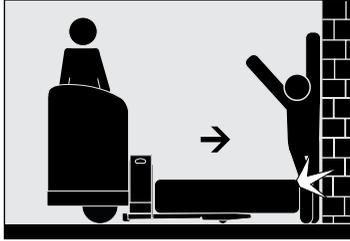


DRIVE CAUTIOUSLY, BE ALERT

- Never stick a foot or any part of your body outside the operator compartment, no matter how slow the truck is moving. You cannot stop 3,000kg or 7,000 pounds with any part of your body. A foot or hand caught between the truck and a object will be crushed or even cut off.
- Don't put your hands or arms over the backrest.
- Keep your hands on the controls and left foot on the pedal.
- Travel in the direction that gives you the best view. Look where you are going and slow down in congested areas.
- Slow down for wet or slippery floors. Don't run over things.
- Look where you are going before you change direction of travel.
- See that you have room to drive and turn. Watch out for power unit swing.
- Slow down when making turns.
- Avoid sudden movement of controls. Learn to use them smoothly at a moderate, even rate.
- Be extra careful if you must use your truck in an area where there is a risk of falling objects.

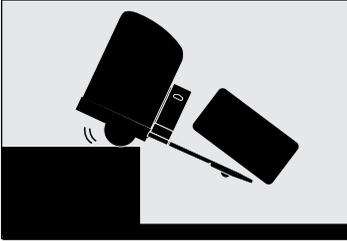
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Be a Safe Driver continued



WATCH OUT FOR OTHER PEOPLE

- Slow down. Yield or stop for pedestrians. Use your horn when you come to a crosswalk or intersection.
- Be careful that you don't pin or crush someone. For example: Never drive your truck toward anyone standing in front of a fixed object.
- Never allow passengers on your truck.
- Keep others away from your truck while you're working. Don't ever allow anyone to ride on the load or forks.
- Don't let anyone use your truck unless they are trained and certified.



AVOID FALLS

- Stay away from the edge of docks and ramps.
- Check that bridgeplates and dockboards are secure.
- Be certain that trailer wheels are chocked. Check that the trailer is locked to the dock.
- Properly install jack stands under the front of the trailer when a tractor is not attached.
- Check capacities. Be sure your truck, with load, isn't too heavy for where you are driving.
- Make sure the load you are moving is stable. Center the load. Be even more careful with long, high or wide loads. They can be less stable.
- When moving loads on grades or ramps, drive with your forks pointed upgrade. Without a load, drive with forks downgrade. Slow down, and don't turn on grades on ramps.
- Don't drive onto an elevator unless you are authorized. Check the capacity or load limit and make sure there are no people present. Enter load first and set the brake.

WHEN LEAVING YOUR TRUCK

- Stop your truck completely before getting off.
- Lower the forks. Turn the truck off or log out.
- Avoid parking on inclines. If you must park on an incline, chock the wheels to prevent the truck from moving.

Power Sources

POWER SOURCES

Your truck can be designed to use the following power sources:

- Flooded Lead Acid Batteries
- Lithium-Ion Batteries

If your truck is equipped with a V-Force lithium-ion battery, see the data plate installed on your truck.

Only Crown approved power sources are permitted to be used in your truck. Only authorized service personnel are permitted to modify the power source installed in your truck.

See the power source data plate for the approved power source installed in your truck.

Note: Follow the manufacturer's specification and instructions when handling power sources.

WORKING WITH POWER SOURCES

Your company should provide a safe area to work on power sources. Use that area for all power source work and charging.

- Do not charge or refuel a power source unless you are trained and authorized.
- Do not remove or install a power source unless you are trained and authorized.

Charging Power Sources

BEFORE CHARGING POWER SOURCES

- Read the instructions for the charger and power source.
- Make sure the charger has the correct voltage and amperage for the power source.
- Only charge a power source in an authorized area.

CHARGING A FLOODED LEAD ACID BATTERY

1. Turn off your truck.
2. Unplug the power source connector from the truck.
3. Follow the charging instructions from the power source manufacturer.

When charging is complete, unplug the charger and plug the power source connector into the truck.

CHARGING A V-FORCE™ LITHIUM-ION BATTERY

1. Turn off your truck.
2. Plug the charger into the battery charge port.
3. Follow the charging instructions for the V-Force lithium-ion battery.

Opportunity charge during breaks or whenever the truck is not being used.

When charging is complete or the battery is fully charged, unplug the charger from the battery charge port.



Know the Hazards

AVOID DAMAGING THE TRUCK AND BATTERY CHARGER

Make sure the battery charger is plugged into the battery connector, not the truck connector.

AVOID DAMAGING THE BATTERY

Batteries that are not properly maintained will fail prematurely.

Always follow the battery manufacturer's instructions.

Lithium-ion

LITHIUM-ION BATTERIES

For trucks equipped with a V-Force lithium-ion battery, the energy status is shown on the truck display.

Trucks qualified and approved to operate with another lithium-ion battery can have a separate display. Use the display installed on the battery to see the energy status.



Know the Hazards

AVOID DAMAGING THE POWER SOURCE

Do not leave trucks with lithium-ion batteries or fuel cell power packs in freezing temperatures.

Always follow the battery manufacturer's instructions.

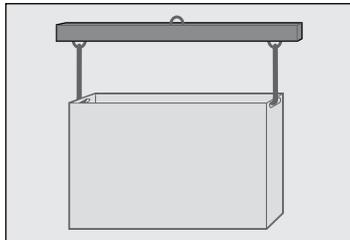
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Flooded Lead Acid Batteries



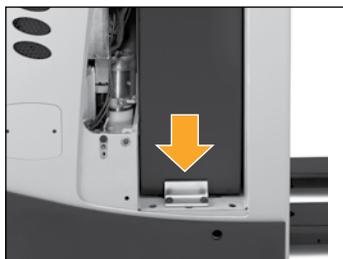
WHEN YOU INSTALL OR CHANGE BATTERIES

- Turn the truck OFF. Check that all controls are in neutral. Disconnect the battery.
- Make certain you use the correct size and weight battery. Never operate a truck that has an underweight or undersized battery installed.
- Never let anything metal touch the top of the cells. You could cause sparks or do damage to the battery. Use an insulator (such as plywood) when necessary.
- Use a roller stand to install or remove a battery. Make sure the roller stand is the same height as the rollers in the truck's battery compartment. Also make sure the roller stand is at least as long as your battery.
- Use an approved spreader bar to place a battery on, or to remove it from a stand. Make sure you adjust the spreader bar hooks to fit the battery. Lift and move the battery carefully.



AFTER INSTALLING YOUR BATTERY

- Return and tighten the battery retainer and replace the side cover.
- Connect the battery. Turn the truck ON and check truck operation.





Know the Hazards



DANGER



Batteries produce explosive gas.

Do not smoke, use open flame, or create an arc or sparks near this battery. Ventilate well in enclosed areas and when charging.

Batteries contain **Sulfuric Acid** which causes severe burns. Do not get in eyes, on skin, or clothing. In case of contact, flush immediately. Get medical attention if your eyes are affected.

107

TRUCK BATTERIES CAN BE DANGEROUS

Your truck battery produces a gas that can explode. It also contains acid that could burn or disfigure you.

- Do not try to install, remove, charge or service your truck battery unless you are trained and authorized.
- Never smoke or use an open flame around batteries.
- Your company should provide an area where it is safe to work on batteries. Use that area for all battery work.
- Use protective equipment such as gloves, eye shields, aprons etc.
- See that the battery cells are filled to the proper level. Never use an open flame to check the battery.

BATTERY RETAINERS MUST BE IN PLACE

The battery could slide out if retainers are not in place. Check that both retainers are installed before operating your truck.

BATTERY SIZE IS IMPORTANT

Make certain you use the correct size, type and weight of battery. Never operate a truck that has an underweight or undersize battery installed.



WARNING

Minimum battery size allowed
XXX mm (00.00 in.) wide
XXX mm (00.00 in.) long

Undersize battery can affect truck handling and stability. You could have an accident.

Use U.L. classified Type E battery.

Warning Labels



**EACH WARNING LABEL
ON YOUR TRUCK IS IMPORTANT**
Read and obey all of them to
protect yourself and others.

WARNING

Operate this truck only with an approved electric power source.

This truck as designed and manufactured from the factory is qualified for use with a lead acid battery and if configured, Crown V-Force products.

Written approval must be obtained from Crown prior to installation of a new type of electric power source, OSHA 1910.178 (a)

CAUTION

Connect charger properly or truck can be damaged.

Make certain charger is plugged into the battery connector, not the truck connector.

47

DANGER



Batteries can produce explosive gas. Do not smoke, use open flame, or create an arc or sparks near this battery. Ventilate well when in an enclosed area and when charging.

This battery contains **Sulfuric Acid** which causes severe burns. Do not get in eyes, on skin, or clothing. In case of contact, flush immediately and thoroughly with water. Get medical attention if your eyes are affected.

97-1A

WARNING



Avoid being crushed. Keep head, arms, hands, legs, and feet within the operator area. **Stop truck completely before getting off.**



However, tipovers and falls from docks can cause serious injury or even death. **Immediately exit and move away from the truck in these emergencies.**

WARNING



It's the law, you must be trained and certified to operate this truck. (OSHA § 1910.178, Rev. 1999)

You or people around you could be seriously injured or even killed if you don't use this truck correctly.

Obey all warnings & instructions on the truck and in the operator manual and on the truck. Inspect your truck before starting work, make sure it is in good working order.

* Additional copies of the Operators Manual and Truck Labels can be obtained from Crown Equipment Corp., New Bremen, OH 45869

04

WARNING



Stay clear of all moving parts.

Moving parts can cut or crush hands, feet, arms or legs.

07

WARNING

Minimum battery size allowed
000 mm (00.00 in.) wide
000 mm (00.00 in.) long

Undersize battery can affect truck handling and stability. You could have an accident.

Use U.L. classified Type EO battery.

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4000 SERIES



*This operator manual
has information for
all models of series
RT 4000 plus some
options and accessories.
Some of the illustrations
and information may
not apply to your truck.*



crown.com

