

CROWN

Operator Manual





Original Instructions

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⚠ WARNING



You Must Be Trained and Certified

Only properly trained operators are permitted to operate a powered industrial truck.

Your employer must train you and certify that you are qualified to operate this powered industrial truck.
(OSHA §1910.178)



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

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

Intended Use of the Truck

Your walkie pallet truck is designed to lift and transport loads. Your operating temperature range is 0°C to 40°C (32°F to 104°F).

The truck and battery, can be transported in temperatures down to -15°C (5°F).

The truck is not authorized for use on public roads.

The **Operator Manual** contains safety and operating instructions, as well as general truck information. It is intended to complement operator training and to be used for future reference.

The Operator is anyone who has been trained and authorized to use this truck. Refer to local, regional, national, or international regulations for operational standards.

The Owner is anyone who owns, leases, has been delegated responsibility of, or authorizes the use of the truck to others.






! **Caution**

Batteries can freeze and rupture

Do not charge cold batteries. Wait for the low temperature icon to disappear before charging.

Symbol Overview

The symbol overview explains important elements used in the manual.

Icon	Type	What it means
	Legend Points	Product feature labeling
	Red Impact Marks	Shows personal injury
	Black Impact Marks	Shows product damage

Text Marking Overview

The text marking overview explains important text elements used in the manual.

Text Styling	Type	What it means
<i>For example:</i>	Italicized Text	Examples for further explanation
1. 2.	Work Steps	Steps that must be performed in specific order
▪	Bullet Points	Shows a list

Safety Messages

This operator manual contains important information about your truck and how to use it properly. Safety messages provide instructions on potential hazardous situations, how to avoid them, and the consequences of not avoiding these situations.

Follow all instructions and obey all safety notices in the manuals and on your truck.

Safe truck operation depends on you.

Danger

Indicates a hazardous situation that, if not avoided, will result in death or serious injury.

Warning

Indicates a hazardous situation that, if not avoided, could result in death or serious injury.

 **Caution**

Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury and/or product damage.



⚠ **Danger**

A damaged lithium-ion battery can be highly flammable.

Immediately exit the area for leaking gas or liquid, excessive heat, flames, or sudden noise coming from the battery.

Alert emergency personnel or notify your supervisor. In case of contact, get medical attention.

Do not eat, drink, smoke, use open flame, create an arc or sparks near the battery.

Do not place battery into direct sunlight, in water, near a heater, or any other potentially hazardous environment.

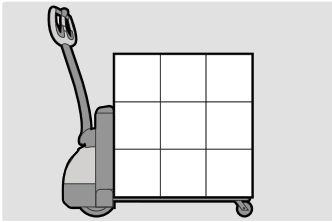


⚠ **Warning**

Make sure the brakes work

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

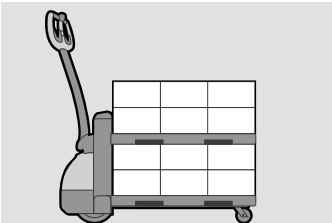
Notify your supervisor.



Warning

Check fork and pallet position

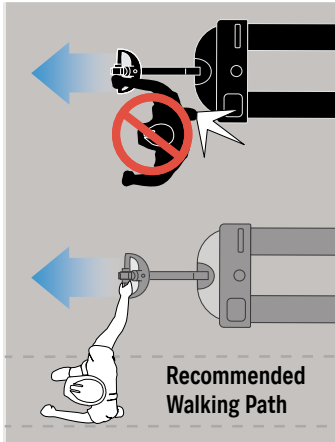
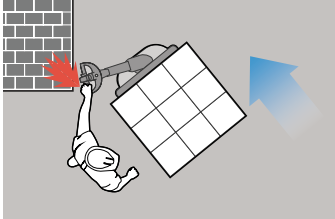
- Make sure that the path of the forks and load is clear.
- Make sure that your load is evenly distributed and centered over the forks.



Prevent falling loads

- Make sure the load is stable and resting against the battery compartment or the load backrest.
- Slow down when making turns.
- Avoid sudden movement of controls.
- Watch out for rough floors or uneven surfaces.
- Be careful when handling long, high or wide loads.

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⚠ Warning

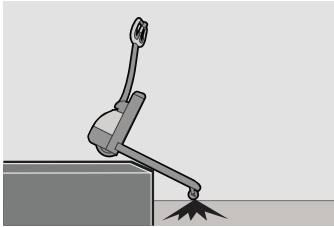
Watch your feet and hands

- A foot or hand caught between the truck and a wall, post or any fixed object will be crushed or even cut off.
- Keep your feet clear of the truck.

Use Your Truck Safely

Do not place yourself or others at risk.

- Keep others away from your truck.
- Never allow passengers on your truck. Do not allow anyone to ride on the load or forks.
- Keep to the side of the truck while traveling power unit first. Make sure the truck won't hit your leg or foot.
- Perform all truck movements smoothly and at a speed that will give you time to react in an emergency.

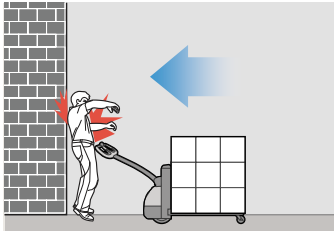


Warning

Avoid falls

Falls from docks are very serious accidents, you can be crushed or even killed.

- 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.
- Stay away from the edge of docks and ramps.
- Make sure that dock boards and dock levelers are secure.
- Check that trailer wheels are chocked or the trailer is locked to the dock.
- Properly install jack stands under the front of the trailer when a tractor is not attached.

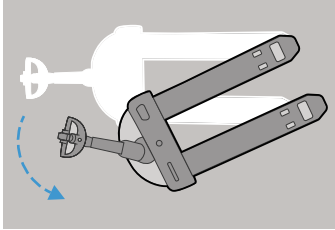


Distractions can cause accidents

You or people around you can be seriously injured or even killed.

- Always be alert to the area around you and look where you are going.
- You or others could be trapped or crushed by driving into fixed objects.
- Slow down in congested areas.
- Never use cell phones or similar devices while operating your truck.

Continued on next page...



⚠ Warning

Prevent impacts with objects or others

The power unit swings wide in the opposite direction when you turn traveling forks first.

- Make sure that you have clearance.
- Watch your hands and your feet.
- Turn carefully and slowly.
- Watch out for people in the area.

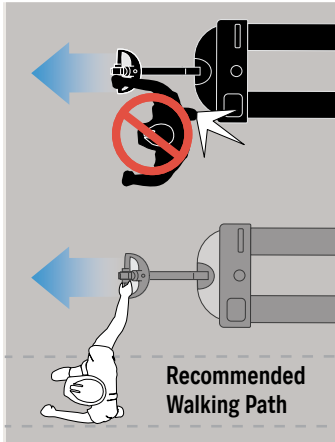
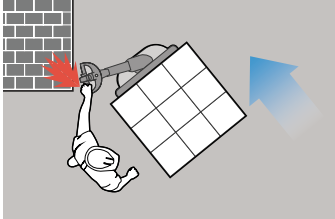


Maintain control of your truck

- Slow down if you see debris or liquid on the floor.
- Do not run over objects on the floor.
- Be careful and prepare for a longer stopping distance.

 **Warning****Know the capacity of your truck**

- Do not exceed the capacity shown on your truck's data capacity plate.
- Make sure that your load is evenly distributed and centered over the forks.
- Make sure the load that you are moving is stable.
- Make sure that your load is resting against the battery compartment or the load backrest.
- Be careful when handling long, high or wide loads.



Warning

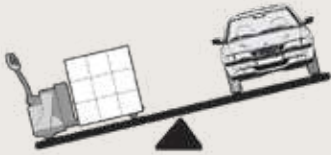
Watch your feet and hands

- A foot or hand caught between the truck and a wall, post or any fixed object will be crushed or even cut off.
- Keep your feet clear of the truck.

Use Your Truck Safely

Do not place yourself or others at risk.

- Keep others away from your truck.
- Never allow passengers on your truck. Do not allow anyone to ride on the load or forks.
- Keep to the side of the truck while traveling power unit first. Make sure the truck won't hit your leg or foot.
- Perform all truck movements smoothly and at a speed that will give you time to react in an emergency.



Your Truck Is Not an Automobile

With a load, it may weigh more than an automobile.

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

Note: You cannot stop your truck with any part of your body, no matter how slow the truck is moving.

Make Sure You Are Ready

- Be certain that you understand how your truck works and the hazards that go with it.
- Make sure that your hands and shoes are clean and dry. Wear clothing that is proper for work.
- Do not operate your truck if you have any doubts.

Make Sure Your Truck Is Ready

Inspect your truck before using it. See **Daily Safety Check** on page 56 for an inspection guide. If your truck is not working correctly or is damaged, do not use it. Notify your supervisor.

Note: Similar looking trucks can be different. Be careful, trucks that look just like yours may not have the same controls, functions, or options.

Watch Out for Other People

- Keep others away from your truck while you're working.
- Never allow passengers on your truck. Do not allow anyone to ride on the load or forks.
- Slow down. Yield or stop for pedestrians.



Pallet Truck

- 1 Control Handle
- 2 Control Arm
- 3 Battery
- 4 Emergency Disconnect
- 5 Cable Storage option
- 6 Forks
- 7 Power Unit
- 8 Load Wheels



Battery

- 1 Battery Release Handle
- 2 Display
- 3 Display Button

Continued on next page...



Control Handle - Back View

- 1 Safety Button
- 2 Forward/Reverse Rocker
- 3 Lower
- 4 Raise
- 5 Key or Keypad



Control Handle - Top View

1 Lower

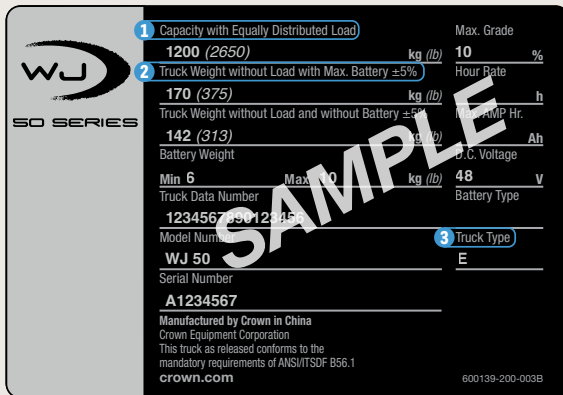
2 Horn


3 Raise

Warning

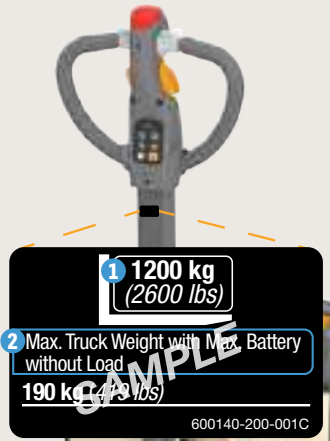
Know the capacity of your truck

- Do not exceed the capacity shown on your truck's data capacity plate.
- Make sure that your load is evenly distributed and centered over the forks.
- Make sure the load that you are moving is stable.
- Make sure that your load is resting against the battery compartment or the load backrest.
- Be careful when handling long, high or wide loads.



	1 Capacity with Equally Distributed Load	Max. Grade
	1200 (2650) kg (lb)	10 %
	2 Truck Weight without Load with Max. Battery $\pm 5\%$	Hour Rate
	170 (375) kg (lb)	
	Truck Weight without Load and without Battery $\pm 5\%$	h
	142 (313) kg (lb)	Ah
	Battery Weight	D.C. Voltage
	Min 6 Max 10 kg (lb)	48 V
	Truck Data Number	Battery Type
	1234567890123456	
	Model Number	3 Truck Type
	WJ 50	E
	Serial Number	
	A1234567	
	Manufactured by Crown in China Crown Equipment Corporation This truck as released conforms to the mandatory requirements of ANSI/ITSDF B56.1	
	crown.com	600139-200-003B





Data Capacity Plate

Check the data capacity plate on your truck. The data capacity plate is located inside the battery compartment. An additional capacity plate is located on the control arm.

These plates contain information such as capacity, truck weight without a load, and battery weight. Make sure you use the correct units of measure.

Note: The information shown on this sample data capacity plate may not apply to your truck.

1 Capacity with Equally Distributed Load

Capacity is the load, including pallet or container, that can be lifted or transported with your truck.

2 Max. Truck Weight with Max. Battery without Load

The maximum weight of your truck without a load. Dock boards, elevators, and some floors can have limits for capacity. Make sure you know the weight of your truck. Remember to add the weight of any load on the forks.

3 Truck Type


Truck type is the fire safety rating for your truck. Watch for marked areas where your truck is not permitted. *For example, you must not operate a type E or ES truck into an area restricted to EE or EX trucks.*



Power On and Off

Make sure that the battery is connected. If your truck is not working correctly, notify your supervisor.

Before turning the truck on the control handle must be in the upright position.

Note: The operator alert icon  will appear on the display if the control handle is not in the upright position. To continue, move the control handle back to the upright position.



Turning On Your Truck Using the Key

- 1 On
- 2 Off

1. Turn on your truck by turning the key clockwise to **On**.

2. Check that the display is working.


While the truck is on, you cannot use the battery display button.


Turning Off Your Truck Using the Key

Turn off your truck by turning the key counterclockwise to **Off**.



Turning On Your Truck Using the Keypad


To turn on the truck, hold down the power button . The red light to the right of the power button will come on.

To log in, enter your user code and press . The green light to the left of the power button will come on and the red light will go off.

While the truck is on, you cannot use the display button.

Note: While logged in, you are the only user permitted to operate this truck.

Turning Off Your Truck Using the Keypad

To log out, press the exit button .

To turn off your truck, hold down the power button until the truck beeps and the green light goes off.

Caution

Prevent unauthorized use

- Always log out before leaving your truck.
- Turn off your truck and remove the key.
- Do not share your user code with others.



Emergency Disconnect

Use the emergency disconnect to shut down the truck if it is not working properly. Do not use the emergency disconnect as a brake.

To cut power to the truck, push down the emergency disconnect button. While traveling, the truck will slow to a controlled stop.

To reconnect power to the truck, twist the emergency disconnect button clockwise and restart the truck. See **Power On and Off** on page 28.

Note: Turning off your truck does not cut off all power to your truck. Use the emergency disconnect any time your truck is not working properly. Do not use your truck and notify your supervisor.



Battery Display

Icons appear on the display to show the condition of the battery.



Display Button

- Press the button once to see the battery status.
- Press the button twice to see the battery software version.

While the truck is on, you cannot use the display button.

Energy Level and Hour Meter

When you turn on the truck the display shows the energy level and hours of operation.



Restart

Turn off the truck and then turn it on.



Low Battery Temperature

Stop your truck, remove the battery, and bring it indoors to warm up. The icon will disappear when the battery is at the correct temperature.



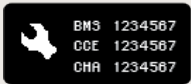
Battery Over Temperature

Stop your truck, remove the battery, and bring it indoors to cool down the battery. The icon will disappear when the battery is at correct temperature.



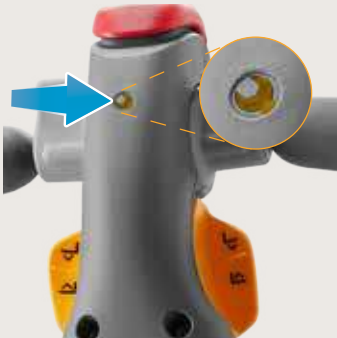
Truck Over Temperature

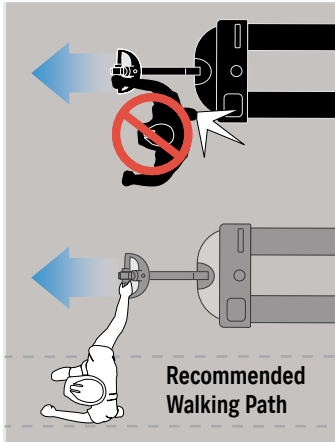
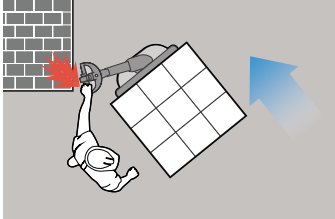
Stop your truck and wait until it cools down. The icon will disappear when the truck is at the correct temperature.



Service Required

If this icon appears on the display or the back of the control handle, notify your supervisor.





Warning

Watch your feet and hands

- A foot or hand caught between the truck and a wall, post or any fixed object will be crushed or even cut off.
- Keep your feet clear of the truck.

Use Your Truck Safely

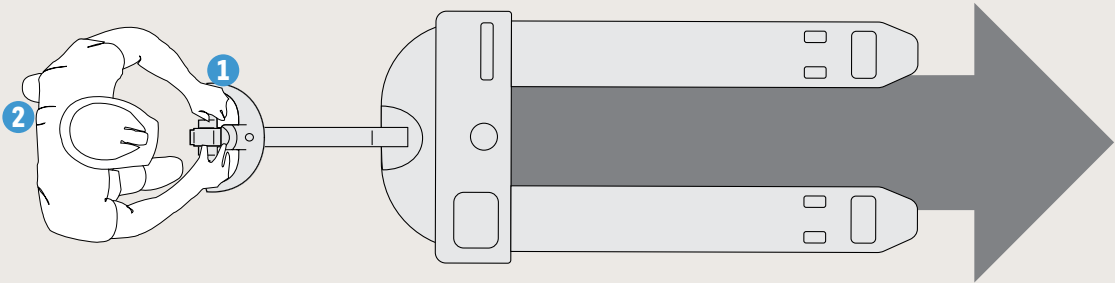
Do not place yourself or others at risk.

- Keep others away from your truck.
- Never allow passengers on your truck. Do not allow anyone to ride on the load or forks.
- Keep to the side of the truck while traveling power unit first. Make sure the truck won't hit your leg or foot.
- Perform all truck movements smoothly and at a speed that will give you time to react in an emergency.

Operating Position - Forks First

When traveling forks first, use both hands to operate the control handle. Watch your feet if you change direction of travel.

- 1 Hands on control handle
- 2 Feet clear of the truck



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Operating Position - Power Unit First

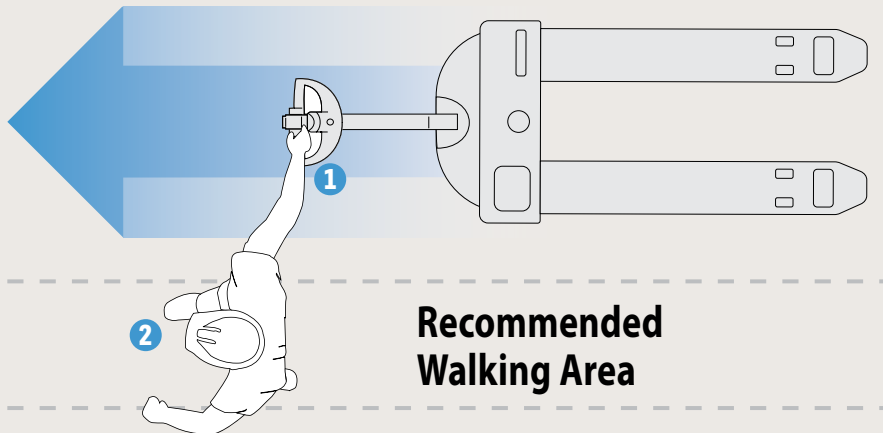
When traveling power unit first, stay to one side of the truck and slightly ahead of the power unit.

- 1 Hand on control handle
- 2 Feet clear of truck path

Use the hand closest to the truck to operate the control handle.

Watch your feet. Stay out of the path of the truck.

Note: Your truck may weigh more than an automobile. You cannot stop your truck with any part of your body, no matter how slow the truck is moving.





! Warning

Make sure the brakes work

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

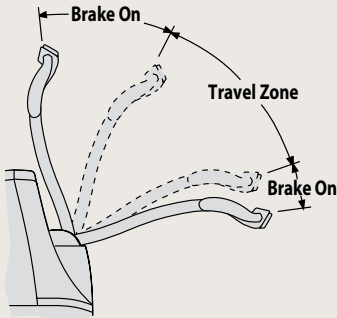
Notify your supervisor.

Parking Brake

The parking brake is automatically applied after the truck comes to a stop.

Braking

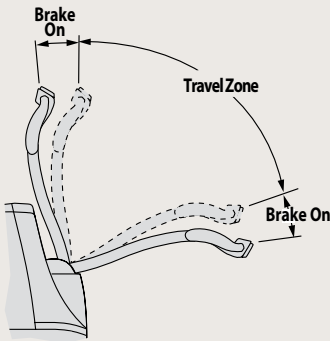
Before you start working, test the brake. There are different ways of braking. Watch your feet. Make sure you don't get pinned between the truck and a fixed object. Stay out of the path of travel.



Braking - Power Unit First

To apply the brake, move the control handle down or up to one of the "Brake On" zones.

When you let go of the control handle it will automatically return to the vertical position and apply the brake.



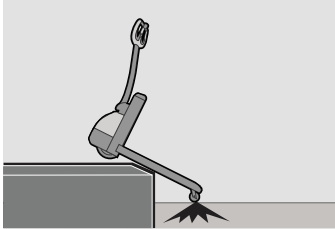
Braking - Forks First

The upper "Brake On" zone is reduced while traveling forks first.

To apply the brake, move the control handle down or all the way up to one of the "Brake On" zones.

When you let go of the control handle it will automatically return to the vertical position and apply the brake.

Note: Braking is designed to stop your truck in the shortest distance. Use the brake in an emergency, on ramps, or in busy areas.

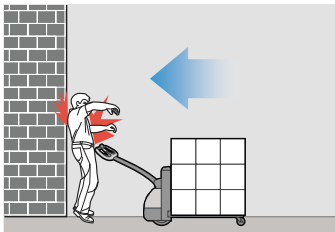


Warning

Avoid falls

Falls from docks are very serious accidents, you can be crushed or even killed.

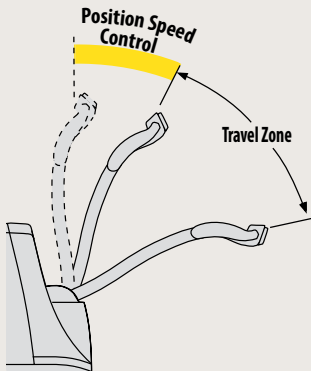
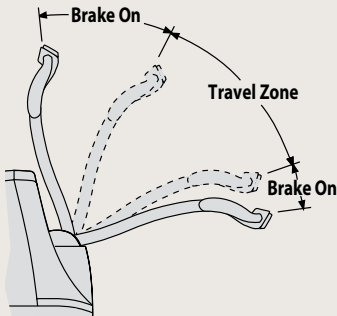
- The best way to prevent injury is to know where you are at all times and follow the rules of safe truck operation.
- Be extremely careful when working around docks, dockboards and trailers.
- Stay away from the edge of docks and ramps.
- Make sure that dock boards and dock levelers are secure.
- Check that trailer wheels are chocked or the trailer is locked to the dock.
- Properly install jack stands under the front of the trailer when a tractor is not attached.



Distractions can cause accidents

You or people around you can be seriously injured or even killed.

- Always be alert to the area around you and look where you are going.
- You or others could be trapped or crushed by driving into fixed objects.
- Slow down in congested areas.
- Never use cell phones or similar devices while operating your truck.



Traveling

Travel in the direction that gives you the best visibility. Make sure that there is clearance for your entire truck.

Your truck has the following traveling directions:

- Power Unit First
- Forks First

To travel, move the control handle down into the travel zone.

Move the forward/reverse rocker in the direction you want to travel. The further you move the forward/reverse rocker from the neutral position, the faster the truck will move.

Note: Travel at a speed that allows you to stop safely. Be just as careful using an unloaded truck as you are using one that is loaded.

Traveling Forks First - Position Speed Control

Moving the control handle up into the speed control area, travel speed is reduced.

To apply the brake, move the control handle all the way up.

Before you leave your truck, come to a complete stop and lower the forks. Turn off your truck, log out, and remove the key.

Park on level floors and stable ground. If you have to stop on an incline, chock the wheels to prevent the truck from moving.

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Plugging

Plugging is another way to slow down or stop your truck. While the truck is moving in either direction, move the forward/reverse rocker through neutral to the opposite travel direction.

Note: Braking vs. Plugging

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



Safety Button

If you accidentally bump the control handle safety button while working in close spaces, the truck will travel forks first.

Note: Be careful. The safety button cannot prevent all injuries.

When Traveling on Ramps or Grades

- Stay out of the path of the truck.
- With or without a load, travel with the forks downgrade.
- If a load requires that you travel with the forks upgrade, be even more careful. Operate the controls from the side of the truck.
- Slow down and do not turn on ramps or grades.

When Traveling onto an Elevator

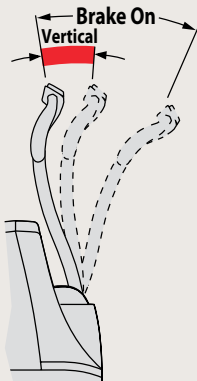
- Do not drive onto an elevator unless you are authorized. Make sure that there are no people present. Enter forks first.
- Make sure your truck, with a load, is not too heavy for where you are driving. *For example, elevators can have a different capacity than the floor.* Do not exceed floor capacity.



Horn

Push the button on the control handle to sound the horn. Warn pedestrians and other operators that you are nearby. Use the horn in areas such as intersections or crosswalks.

Continued on next page...



Vertical Tiller Drive

This feature allows you to travel with the control handle in the upper "Brake On" zone and maneuver the truck.

Braking while using vertical tiller drive

To brake, press the safety button.

To use vertical tiller drive

With the control handle in the vertical tiller area,

1. Move the forward/reverse rocker fully in the direction you want to travel.
2. Return the forward/reverse rocker to neutral.
3. Immediately move the rocker in the same travel direction and the truck will travel.

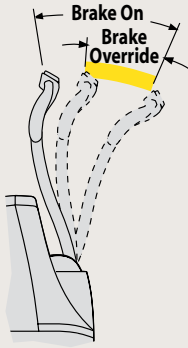
When using vertical tiller drive you can maneuver slowly in both directions.

Watch your feet. Make sure you don't get pinned between the truck and a fixed object. Stay out of the path of travel.

To turn off vertical tiller drive

Vertical tiller drive will turn off with one of the following actions:

- You leave the truck stationary for 10 seconds.
- You move the control handle out of the upper vertical tiller area.
- You apply the brake using the safety button.



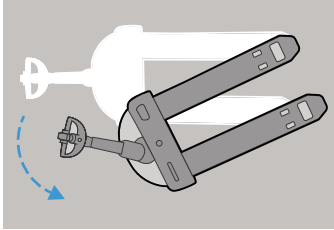
Brake Override

While traveling power unit first, this feature allows you to override the "Brake On" zone and drive slowly.

With the control handle in the "Brake Override" area,

1. Move the forward/reverse rocker to neutral.
2. Then move it in the direction you want to travel.

Watch your feet. Make sure you don't get pinned between the truck and a fixed object. Stay out of the path of travel.



! Warning

Prevent impacts with objects or others

The power unit swings wide in the opposite direction when you turn traveling forks first.

- Make sure that you have clearance.
- Watch your hands and your feet.
- Turn carefully and slowly.
- Watch out for people in the area.

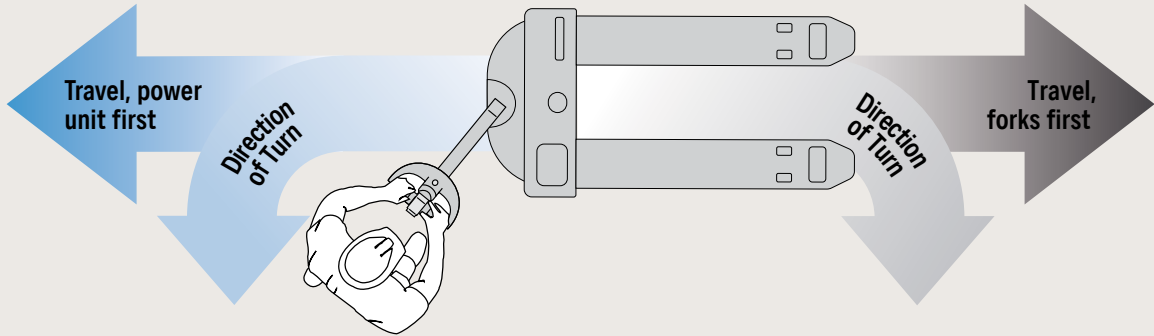


Maintain control of your truck

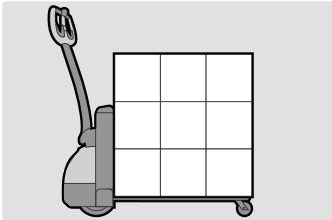
- Slow down if you see debris or liquid on the floor.
- Do not run over objects on the floor.
- Be careful and prepare for a longer stopping distance.

Steering

You control steering by moving the control handle from side to side.



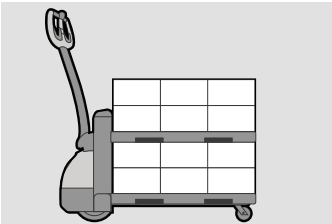
This shows the directions your truck will turn, when you move the control handle to the position shown.



Warning

Check fork and pallet position

- Make sure that the path of the forks and load is clear.
- Make sure that your load is evenly distributed and centered over the forks.



Prevent falling loads

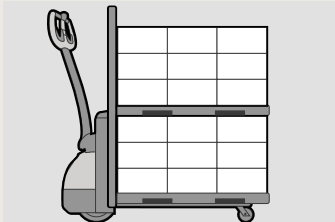
- Make sure the load is stable and resting against the battery compartment or the load backrest.
- Slow down when making turns.
- Avoid sudden movement of controls.
- Watch out for rough floors or uneven surfaces.
- Be careful when handling long, high or wide loads.

Load Handling

Make sure that your load is evenly distributed, stable, and centered over the forks.

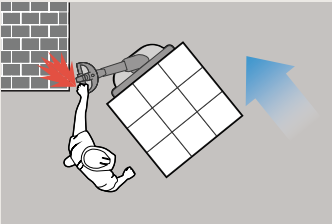
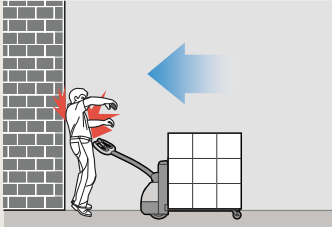
Long loads can be unstable. Support at least two-thirds (67%) of the load on the forks. Crown recommends the forks be three-fourths (75%) the length of the load. Make sure the forks do not extend beyond the load.

Be careful moving a wide or tall load. Make sure you or someone around you does not get pinned or crushed. Have a second person assist you.



Load Backrest option

The load backrest can provide more load handling stability. Check that the load backrest is in place and secure. Make sure that the load is resting against the load backrest.



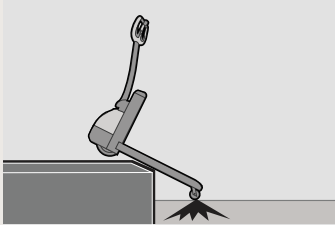
Be Cautious and Alert

- Look where you are going. Watch out for people in the area.
- You can be trapped or crushed by a fixed object. Keep your feet clear of the truck.
- Travel in the direction that gives you the best visibility. Slow down in congested areas.
- Stay to the side of the truck while traveling power unit first. Make sure the truck won't hit your leg or run over your foot.
- When traveling forks first, keep both hands on the control handle and be careful when changing direction.
- Never use cell phones or similar devices while operating your truck.
- Slow down for wet or slippery floors.
- Do not run over objects.
- Avoid sudden movement of controls. Learn to use them smoothly at a moderate, even rate.
- Travel at a speed that allows you to stop safely.
- Staying alert will help you be a better and safer operator.
- Be careful and prepare for a longer stopping distance.

Watch Out for Other People

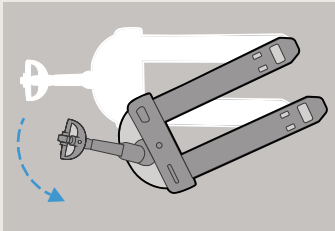
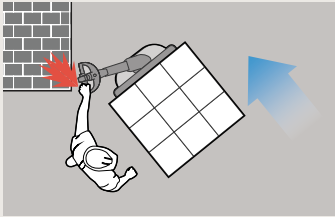
- Slow down. Yield or stop for pedestrians. Use the horn in areas such as intersections or crosswalks.
- Make sure that you do not trap or crush someone. *For example, never drive your truck toward anyone standing in front of a fixed object.*
- Be careful when handling long, high or wide loads. Make sure you or someone around you does not get trapped or crushed. Have a second person assist you.
- Keep others away from your truck while you are working.
- Travel in the direction that gives you the best visibility.
- Never allow passengers on your truck. Do not allow anyone to ride on the load or forks.

Continued on next page...



Avoid Falls

- Falls from docks are very serious accidents, you can be crushed or even killed. The best way to prevent injury is to know where you are at all times and follow the rules of safe truck operation.
- An unloaded truck can be dangerous as well. Be just as careful using an unloaded truck as you are using one that is loaded.
- Be extremely careful when working around docks, dockboards and trailers.
- Stay away from the edge of docks and ramps.
- Make sure that dock boards and dock levelers are secure. Be certain the trailer wheels are chocked or the trailer is locked to the dock.
- Properly install jack stands under the front of the trailer when a tractor is not attached.
- Make sure your truck, with a load, is not too heavy for where you are driving. *For example, elevators can have a different capacity than the floor.* Do not exceed floor capacity.
- Do not drive onto an elevator unless you are authorized. Make sure that there are no people present. Enter forks first.



When Traveling

- Your truck may weigh more than an automobile. You cannot stop your truck with any part of your body. A foot or hand caught between the truck and a wall, post or any fixed object will be crushed or even cut off.
- Watch out for power unit swing. Slow down when making turns.
- When traveling, make sure that the load is centered and resting against the battery compartment or the load backrest.
- 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.

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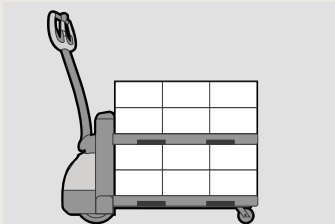
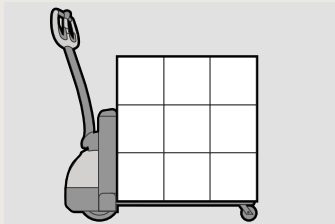


When Traveling on Ramps or Grades

- Stay out of the path of the truck.
- With or without a load, travel with the forks downgrade.
- If you must travel with the forks upgrade, be even more careful. Operate the controls from the side of the truck.
- Slow down and do not turn on ramps or grades.

When Handling Loads

- Do not exceed the capacity shown on your truck's capacity plate.
- Make sure that the load is evenly distributed and centered over the forks.
- Make sure the load that you are moving is stable. Center the load. Be careful handling long, high or wide loads.
- Make sure that the load backrest is in place and secure, if your truck has that option. Travel with the load resting against the battery compartment or the load backrest.
- Do not tow or push loads on the floor.



When Leaving Your Truck

- Park on level floors and stable ground.
- Come to a complete stop and lower the forks. Turn off your truck, log out, and remove the key.
- Avoid parking on inclines. If you must park on an incline, chock the wheels to prevent the truck from moving.

Check Your Truck Before Starting Work

You must make sure that your truck is safe to use.

See your supervisor for requirements in your workplace and local laws for inspection.

Note: If anything does not look, work, feel, or sound right, do not operate your truck. Report the problem to your supervisor.

1. Walk around your truck and check it over.

- Check the battery for signs of swelling, leaks, or damage.
- Check that the battery is charged.
- Make sure that the battery is secure and locks in place.
- Turn on your truck and check that the display is working.
- Check that all wheels are in good condition.
- Look under your truck for signs of hydraulic leaks.
- Make sure that the forks are not damaged or badly worn.
- Test the horn.
- Check the capacity plate on your truck. Make sure you use the correct units of measure.
- Make sure that the emergency disconnect works.
- Check that all controls move smoothly. All controls should automatically return to their neutral position.

2. Test drive your truck in an uncongested area.

- Test the hydraulic functions.
- Make sure that steering is easy and smooth.
- In an open area, drive the truck slowly in both directions. Check braking and plugging in forward and reverse. First check at a slow travel speed, then at a faster one.
- If at any time the stopping distance is too long for you, do not drive your truck.



Danger

A damaged lithium-ion battery can be highly flammable. Immediately exit the area for leaking gas or liquid, excessive heat, flames, or sudden noise coming from the battery.

Alert emergency personnel or notify your supervisor. In case of contact, get medical attention.

Do not eat, drink, smoke, use open flame, create an arc or sparks near the battery.

Do not place battery into direct sunlight, in water, near a heater, or any other potentially hazardous environment.

Battery Precautions

Check the battery for signs of swelling, leaks, or damage.

Note: If anything does not look, work, feel, or sound right, do not use the battery.

If you come into contact with battery fluid or vapor:

- Do not breathe in battery mist, vapors, or spray. If inhaled, get fresh air.
- If battery fluid is swallowed, rinse your mouth and do not induce vomiting. Seek immediate medical attention or call a poison center.
- For contact with skin or eyes, rinse for 15 minutes. If possible, remove contact lenses and continue to rinse.

Seek immediate medical attention. Immediately remove contaminated clothing.

- In case of fire, evacuate all personnel.



V-Force Lithium-ion Battery

Your truck is designed to use a lithium-ion battery.

- Do not remove, install, or charge a battery unless you are trained and authorized.
- Do not open, disassemble, or modify the battery.



Battery Status

The energy level, state of health, and capacity of the battery.

When the energy level is low, the icon flashes. Travel speed is reduced and raise is disabled. Change or recharge the battery.

Continued on next page...



Incorrect Battery

If the wrong battery is placed in the truck, the incorrect battery icon appears. Replace the battery with the correct battery capacity.



Over Current

Stop your truck and wait for the icon to disappear before operating. Follow any on-screen icons to restart the truck or disconnect the battery.



Over Voltage

Stop your truck. Wait for voltage to return to operating range and the icon to disappear before operating.



Under Voltage

Do not use the battery. Charge the battery. The icon will disappear when the battery is charged.



 **Caution****Avoid damaging the truck and battery**

- Make sure that your truck is completely dry before operating.
- Do not operate trucks with lithium-ion batteries in freezing temperatures.

Before Charging a Battery

The battery can be charged on or off the truck. While the battery is charging, you cannot use the display button.

- Remove the battery. Before and after charging, check the battery for signs of swelling, leaks, or damage.
- Only use the charger approved for the battery.
- Only charge a battery in an designated area.



Charging on-board the truck

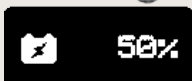
To charge the battery installed in the truck, perform the following steps:

1. Turn off your truck.
2. Plug the charging cable into the correct power outlet. While charging, the battery icon will flash next to the energy level.

When charging is complete, the display will turn off.

Unplug the charging cable and place it inside the truck.

If the battery disconnect icon appears while charging, disconnect the charger. Wait until the icon disappears to use the battery.



Charging using the V-Force Charging Base

To use a V-Force Charging Base, perform the following steps:

1. Turn off your truck.
2. Pull up the battery release handle and lift out the battery.
3. Insert the battery into the charger. While charging, the battery icon will flash next to the energy level.

When charging is complete, the display will turn off.

Unplug the battery from the charger and place it into the truck. Push it down until it locks in place.

If the battery disconnect icon appears while charging, disconnect the charger. Wait until the icon disappears to use the battery.

Opportunity Charging

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



Caution

Batteries can freeze and rupture

Do not charge cold batteries. Wait for the low temperature icon to disappear before charging.

Removing the Battery

Before removing a battery, perform the following steps:

1. Park on a level floor.
2. Lower the forks completely.
3. Turn off your truck.
4. Pull up the battery release handle and lift out the battery.

Installing the Battery

Before installing the battery, make sure the battery compartment is free of debris, clean, and dry. Make sure that the new battery is ready for use.

1. Place the new battery into the truck and push it down until it locks in place.
2. Turn on your truck.
3. Check truck operation.

Each Warning Label on Your Truck Is Important Read and obey all of them to protect yourself and others.

WARNING

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

STOP

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

Obey all instructions & warnings in the operator manual and on the truck.

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

* Additional copies of the Operators Manual and Truck Labels can be obtained from:
Crown Equipment Suzhou

crown.com

WARNING

Riding on this truck could cause serious injury.

No Riding.

001196-2004

DANGER

A damaged lithium-ion battery can be highly flammable.
Immediately exit the area for leaking gas or liquid, excessive heat, flames, or sudden noise coming from the battery.

Alert emergency personnel and notify your supervisor. In case of contact, get medical attention.

Do not smoke, use open flame, create an arc or sparks near this battery.

8949-000A

WARNING

Adding electrical devices (radio, terminal, lights etc.) or changing existing components or wiring can affect truck operation and could cause an accident.

Contact authorized Crown personnel before adding to or changing the electrical system in any way.

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DANGER

This information is applicable to damaged, leaking, or spilled products as contact with internal contents is possible under these conditions.

HAZARD STATEMENTS

Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause serious deterioration of hearing if inhaled or in contact with skin. Causes damage to organs through prolonged or repeated exposure.

PRECAUTIONARY STATEMENTS

Obtain special instructions before use. Do not handle until safety products have been used and understood. Do not breathe mist/vapors/spray. Wash hands, face and face thoroughly after use. Do not eat, drink or smoke when using this product. Contain mist/spray during transport by air. Do not use if the seal is broken. Wear protective gloves, protective clothing, chemical goggles, & face protection.

IF SWALLOWED: Call a poison center or doctor if you feel unwell. Rinse mouth.

IF ON SKIN (OR HAIR): Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritated or otherwise get medical advice/attention.

Store locked up. Dispose of contents/container in hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

PRODUCT CONTAINS

Lithium nickel oxide, Copper, Cadmium, Chromium dioxide, Cobalt, Nickel oxide, Nickel, Lithium hexafluoroantimonate, Aluminum, Lithium oxide (Al₂O₃), Carbon black, Nickel, Lithium carbonate, Ethylene/ene.

WARNING This product can expose you to Ethylene/ene, which is known to the State of California to cause cancer, and Lithium carbonate, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

CPI E-152-019A-1/04/2004

Trend Power Technology(Changshu)INC.
No.868, Dongnan Avenue, Changshu New & Hi-tech Industrial Development Zone, Changshu, Jiangsu, China, 215090
1-713-722-0320

Only use an approved Crown charger. 00299200C

Trademarks

The following trademarks are property of Crown Equipment Corp. in the United States and other countries.

Your truck is equipped with the following standard features and may be equipped with optional features.

The logo for ecologic, featuring the word "ecologic" in a lowercase, sans-serif font. The "eco" portion is green, and the "logic" portion is grey. A small trademark symbol (TM) is located at the top right of the word.The logo for Crown Insite. It features the word "Crown" in a small, grey, sans-serif font above the word "Insite" in a larger, bold, grey, sans-serif font. A stylized signal icon with three curved lines and a small orange dot is positioned above the "i" in "Insite". A small trademark symbol (TM) is located at the top right of the word.The logo for V-Force. It features a stylized "V" shape on the left, composed of two orange and black chevron-like shapes. To the right of the "V" is the word "FORCE" in a bold, italicized, black, sans-serif font.



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Operator Manual
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