This operator manual has information for all models of series TWR 3000 plus some options and accessories. Some of the information and illustrations may not apply to your truck.
You could be killed or seriously injured if you are not adequately trained.

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

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 area can be pinned or crushed whenever the truck is moving. Stay within the operator area and stop the truck completely before getting off.

A dockboard can move or drop while you are on it. Or you could drive off a dock. Falls from docks or dockboards can cause serious injury or even death. Make sure you are safe.

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.
Know the Hazards

**DRIVE CAREFULLY**

- When walking, keep to the side of the truck while traveling power unit first. Make certain the truck won't hit the back of your leg or foot. Don’t let the truck run over your foot.
- When allowing the truck to coast, travel power unit first only. Keep to the side of the truck.
- If traveling coupler end first, keep both hands on the control handle. Be careful when changing direction of travel. Keep your feet clear of the truck.
- When riding, keep your hands on the controls and feet on the platform. Keep your body within the operator area.
- Don’t put hands or arms over the backrest.
- Never stick a foot or any part of your body outside the truck, no matter how slow the truck is moving. You cannot stop 905kg (2000 pounds) with any part of your body. A foot or hand caught between the truck and a fixed object will be crushed or even cut off.
- 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 dockboard.
- 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.

**AVOID FALLS**

Falls 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. Unless you can safely jump completely clear of the falling truck, there is no sure way to avoid injury if you drop from a dock or dockboard.

Be extremely careful when working around docks, dockboards and trailers.

**USE YOUR TRUCK SAFELY**

- Keep your hands and feet away from all moving parts such as the coupler or wheels.
- Never allow passengers on the truck. There is no safe place for them.
- Before you leave your truck:
  - Come to a complete stop.
  - Shut the truck off with the key or disconnect the battery.
  - Make certain the coast selector is in the off position.

**LOOK WHERE YOU’RE DRIVING**

Always be alert to the area around you and watch where you are driving. You could be pinned or crushed by objects intruding or poking into the operator area.

When allowing the truck to coast, make certain the area ahead of you is clear.
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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.

Battery Maintenance

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.

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

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.
HOW TO DRIVE YOUR TRUCK WHILE RIDING
Keep both feet on platform. Place both hands on control handle. Keep your entire body within the operator area. With the handle in the riding position, you can also use the coast selector to make it easier to pick loads while walking beside the truck (see pages 15 and 16.)

GIVE YOUR BODY A BREAK
Take advantage of stop time. 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 (ASME) B56.9
• Occupational Safety and Health Act (OSHA) §1910.178, Rev. 1999
• Underwriters Laboratory (UL) 583
• National Fire Prevention Association (NFPA) 505

WALKIE/RIDER TOW TRACTORS
As a rider your truck is designed to tow loads over long distances. You can also use it as a walkalong truck while picking stock.

YOUR TOW TRACTOR IS NOT AN AUTOMOBILE
It may weigh more than an automobile, even without a load.
• You don’t steer the same.
• You don’t brake the same.
• You don’t accelerate the same.

HOW TO DRIVE YOUR TRUCK WHILE WALKING
Coupler End First
When traveling coupler end first, without a load, use both hands to operate the control handle. Watch your feet if you change direction of travel.

Power Unit First
When traveling power unit first, stay to one side of the truck and slightly ahead of the power unit. Use the hand closest to the truck to operate the control handle. Watch your feet. Stay out of the path of the truck.
Tow Tractor Parts

- Control Arm
- Key Switch (On power unit)
- Coast Selector
- Control Handle
- Power Disconnect
- High Speed Switch (On platform)
- Platform
- Battery Retainer

Control Handle

Travel Twist Grip
Reversing Button
Horn Button
Capacity Plate

CAPACITY PLATE INFORMATION
The capacity plate is on the top of the power unit cover. It contains:
- Capacity information
- Truck type (a fire safety rating)
- Truck weight
- Maximum grade rating
- Battery information
- Truck information

WHAT IS YOUR TRUCK CAPACITY?
Capacity of your truck is shown as Normal Drawbar Pull. (For normal conditions, 225N or 50 lbs of drawbar pull is required to tow 905kg or 2000 lbs). See the capacity plate on your truck.

Note: ANSI B56.1 requires that all data be shown first in Metric units and then USA units.

Know the Hazards

KNOW YOUR LOAD
Do not exceed the capacity (normal drawbar pull) shown on your truck’s capacity plate. Make certain you use the correct units of measure. Do not tow unstable loads.

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.

TRUCK WEIGHT
Dockboards, elevators and some floors have limited capacity. Check your capacity plate for the weight of your truck. Also check weights of carts with loads.
Coast Selector

COAST, A WALK BESIDE CONTROL
With the handle in the riding position, you can allow the truck to coast to make it easier to pick loads while walking beside the truck.

This feature allows the truck to coast when you let go of the control handle. However you can apply the brake by moving the control handle to the brake position.

Be even more careful when using coast. Make sure you understand the possible hazards. Don’t place yourself or others at risk.

COAST SELECTOR ON
Move the coast selector lever away from the control arm.

When you let go of the control handle the truck will coast. To apply the brake you must move the control handle to the brake position.

COAST SELECTOR OFF
Move the coast selector toward the control arm.

When you let go of the control handle the brake will stop the truck.

WHEN RIDING
Stop your truck completely before getting off.

WHEN USING COAST
• Travel power unit first only.
• Don’t get in the path of the truck. Watch your feet.
• Stay to the side of the truck. Keep your arm extended to give maximum clearance between you and the truck.
• Make sure the area ahead of you is clear.

Know the Hazards

WARNING
Coast control on, releasing handle will not stop the truck. Truck will travel if you move handle to a coast position.
Coast controls for walk along use only.

USING COAST REQUIRES EVEN MORE CAUTION
• Floors must be level and free of obstacles.
• Never allow the truck to coast into a cross aisle.
• Do not coast in pedestrian walkways.
• Watch out for people and other trucks.
• Do not walk in the path of a coasting truck. Stay to the side of the truck with your arm extended and keep your feet clear.
• When coasting, travel power unit first only.
• Always move the coast selector to the off position when you finish a coast operation.
• Stop your truck completely before getting off.
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, water level is OK and vent caps are in place. Don't use an open flame to check the battery.
   • Make certain the battery retainers on both sides of the truck are properly installed.
   • See that all wheels are in good condition.
   • Clean the twist grips and hand holds.
   • Be sure the coupler is working properly.
   • Test the horn.
   • Make sure the power disconnect works.
   • Check that all controls work smoothly.

2. Test drive your truck in an uncongested area.
   • Check the steering.
   • Drive the truck slowly in both directions. Check the reversing button.
   • Check braking distance in both directions. Load size and floor conditions can affect these distances.
   • Drive through the full speed range in both directions.
   • Know the distance it takes to stop before you start working. If the braking distance is too long to stop safely, don't drive the truck.
   • Check coast selector operation.

If anything doesn't look, work or feel right, don't drive the truck. Report the problem to your supervisor.

You can get checklist forms from your Crown dealer (part no. OF-3772). 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 (see pages 21 and 22). If it's not working right, or something is broken, report the problem to your supervisor. Don't use the truck.
- 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.

WHEN WALKING
- Stay to the side of the truck when traveling power unit first. Make sure the truck won't hit your leg or run over your foot.
- If traveling coupler end first, keep both hands on the control. Be careful when changing direction. Keep your feet clear of the truck.

WHEN RIDING
- Never stick a foot or any part of your body outside the operator area, no matter how slow the truck is moving.
- Don't put your hands or arms over the backrest. Keep your hands on the controls and feet on the platform.
- Stop your truck completely before getting off.

DRIVE CAUTIOUSLY, BE ALERT
- Look where you are going. Don't let your hands or feet get pinned or crushed.
- 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.

Continued next page...
**Be a Safe Driver** continued

**WHEN USING COAST**
- Travel power unit first only.
- Keep to the side of the truck. Make certain the truck won’t hit the back of your leg or foot. Don’t let the truck run over your foot.
- Be certain the area ahead of you is clear.

**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 let anyone use your truck unless they are trained and certified.
- Don’t coast in a congested area or if there are people in the aisle.
- Watch out for power unit swing.

**WHEN LEAVING YOUR TRUCK**
- Turn the truck off or disconnect the battery.
- Make sure the coast selector is off.
- Avoid parking on inclines. But if you must, block the wheels of your truck.

**AVOID FALLS**
- Stay away from the edge of docks and ramps.
- Check that bridgeplates and dockboards are secure. Be certain that either the trailer wheels are chocked or the trailer is locked to the dock. Check capacities. Be sure your truck, including the battery and any load you’re towing, is not too heavy for where you are driving.
- Make sure the load you are towing is stable.
- Don’t drive onto an elevator unless you are authorized. Check the capacity or load limit and make certain there are no people present. Be sure the coast selector is off and the brake is on.

**BE CAREFUL TRAVELING ON RAMPS AND GRADERS**

**When Riding**
- With or without a towed load, going upgrade or downgrade, travel power unit first.

**When Walking**
- With a towed load, going upgrade or downgrade, travel power unit first. Stay out of the path of the truck. Operate the controls from the side of the truck.
- Without a load, drive with the power unit pointed upgrade.
- Don’t coast on a grade.

Slow down and don’t turn on ramps or grades.
WHEN YOU INSTALL OR CHANGE BATTERIES
• Turn the truck OFF. Be sure the coast selector is off. Check that all controls are in neutral and 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 an approved spreader bar to place a battery in, or remove it from, the battery compartment or stand. Make sure you adjust the spreader bar hooks to fit the battery.

USING A ROLLER STAND
If you 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.

AFTER INSTALLING YOUR BATTERY
• Replace the battery retainers. Make certain the retainers on both sides of the truck are in place.
• Connect the battery. Turn the truck ON and check truck operation.

BATTERY CHARGE METER OPTION
The lighted bar shows how much charge is left in your battery. A flashing light will warn you that the battery is getting low. Two flashing lights mean you must have the battery changed or recharged.

Know the Hazards

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.

BATTERY RETAINERS MUST BE IN PLACE
The battery could slide out if retainers are not in place. Check both sides of the truck. Make sure both retainers are installed before operating your truck.

COAST SELECTOR MUST BE OFF
Be sure the coast selector is off and the brake is on before removing or installing a battery.
**Battery Maintenance continued**

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**Know the Hazards**

**BEFORE CHARGING YOUR TRUCK BATTERY**
- Charge the battery only in areas designated for that use.
- Be certain the coast selector is off and the brake is on. Make sure the truck key switch is turned off and all other controls are in the off or neutral position.
- See that the battery cells are filled to the proper level. Never use an open flame to check the battery.
- Make certain the charger is the same voltage and amperage as your battery.
- Read the battery charger instructions.
- Be sure the charger is turned OFF before connecting the battery to the charger. Otherwise you might create a spark which could cause the battery to explode.

**BATTERY SIZE IS IMPORTANT**
Make certain you use the correct size, weight and type of battery. Never operate a truck that has an underweight or undersized battery installed.

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**Warning Labels**

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

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**WARNING**
Avoid being crushed. Keep head, arms, hands, legs, and feet within the operator area. Stop truck completely before getting off. Tipovers and falls from dock can cause serious injury or death.

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**WARNING**
Connect charger properly or truck can be damaged.

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

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**WARNING**
With coast control on, releasing handle will not stop the truck. Truck will roll until you move handle to a brake position. Coast control is for walk along use only.

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

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**WARNING**
Apply Hand Brake. Parking brakes are not automatically applied.

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**WARNING**
Batteries can produce explosive gas. Do not store, use, handle, or charge in an air or explosive area. Keep battery out of area when charging. The 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.

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