Form No. 3398-465 Rev A

TORO®

Count on it.

Operator's Manual

Standard Bucket

Compact Utility Loaders

Model No. 22340—Serial No. 315000001 and Up

Register at www.Toro.com.
Original Instructions (EN)

3398-465 A

⚠ WARNING

CALIFORNIA
Proposition 65 Warning

This product contains a chemical or chemicals known to the State of California to cause cancer, birth defects, or reproductive harm.

Use of this product may cause exposure to chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

⚠ WARNING

Power, gas, and/or telephone lines may be buried in the work area. A shock or explosion may occur if you dig into them.

Mark the property or work area for buried lines and do not dig in marked areas. Contact your local marking service or utility company to mark the property (for example, in the United States, call 811 for the nationwide marking service).

Introduction

Read this information carefully to learn how to operate and maintain your product properly and to avoid injury and product damage. You are responsible for operating the product properly and safely.

You may contact Toro directly at www.Toro.com for product safety and operation training materials, accessory information, help finding a dealer, or to register your product.

Whenever you need service, genuine Toro parts, or additional information, contact an Authorized Service Dealer or Toro Customer Service and have the model and serial numbers of your product ready. The model and serial numbers are located on a plate on the back of the bucket. Write the numbers in the space provided

Model No. _____

Serial No. _____

This manual identifies potential hazards and has safety messages identified by the safety-alert symbol (Figure 1), which signals a hazard that may cause serious injury or death if you do not follow the recommended precautions.



Figure 1

1. Safety-alert symbol

This manual uses 2 words to highlight information. **Important** calls attention to special mechanical information and **Note** emphasizes general information worthy of special attention.

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Safety

Improper use or maintenance by the operator or owner can result in injury. To reduce the potential for injury, comply with these safety instructions and those in the traction unit *Operator's Manual*. Always pay attention to the safety-alert symbol, which means *Caution*, *Warning*, or *Danger*—personal safety instruction. Failure to comply with the instruction may result in personal injury or death.

⚠ WARNING

Power, gas, and/or telephone lines may be buried in the work area. A shock or explosion may occur if you dig into them.

Mark the property or work area for buried lines and do not dig in marked areas. Contact your local marking service or utility company to mark the property (for example, in the United States, call 811 for the nationwide marking service).

⚠ WARNING

When the engine is off, attachments in the raised position can gradually lower. Someone nearby may be pinned or injured by the attachment as it lowers.

Always lower the attachment lift each time you shut off the machine.

⚠ WARNING

If you step off the platform with the load raised, the machine could tip forward. Someone nearby may be pinned or injured.

Lower the load before stepping off the platform.

⚠ WARNING

When going up or down hill, the machine could overturn if the heavy end is toward the downhill side. Someone may be pinned or seriously injured by the machine if it overturns.

Operate up and down slopes with the heavy end of the machine uphill. This attachment makes the front end heavy.

⚠ WARNING

If the bucket is not kept level while lifting, the load could be inadvertently dumped on you, causing injury.

When lifting the bucket, tilt it forward to keep it level and prevent it from spilling backward.

⚠ WARNING

If you do not fully seat the attachment-locking pins in the holes of the attachment-mount plate, the attachment could fall off the traction unit, severely injuring you or bystanders.

- **Ensure that you fully seat the attachment-locking pins through the holes in the attachment-mount plate before lifting the attachment.**
- **Ensure that the attachment-mount plate is free of any dirt or debris that may hinder the connection of the traction unit to the attachment.**
- **Refer to your traction unit *Operator's Manual* for detailed information on safely connecting an attachment to your traction unit.**

General Safety

The following instructions have been adapted from the ANSI/OPEI and ISO standards.

Preparation

- Never attempt to make any adjustments while the engine is running, except when specifically recommended by Toro.
- The operation of any powered machine can result in foreign objects being thrown into the eyes. Always wear eye protection during operation or while performing an adjustment or repair.

Operation

- Do not put hands or feet near or under rotating parts.
- Exercise extreme caution when operating on or crossing gravel drives, walks, or roads. Stay alert for hidden hazards or traffic. Do not carry passengers.
- After striking a foreign object, stop the engine, thoroughly inspect the attachment for any damage, and repair the damage before starting and operating the attachment.
- If the unit should start to vibrate abnormally, stop the engine and check immediately for the cause. Vibration is generally a warning of trouble.
- Stop the engine whenever you leave the operating position and when making any repairs, adjustments, or inspections.
- When cleaning, repairing, or inspecting the machine, stop the engine and ensure that all moving parts have stopped.

- Keep children and pets away.
- Do not overload the machine capacity by attempting to backfill at too fast a rate.
- Never operate the machine at high-transport speeds on slippery surfaces. Look behind the machine and use care when moving in reverse.
- Never allow anyone in front of the unit.
- Never operate the attachment without good visibility or light.
- Lightning can cause severe injury or death. If lightning is seen or thunder is heard in the area, do not operate the machine; seek shelter.

Maintenance and Storage

- Check fasteners at frequent intervals for proper tightness to ensure that the equipment is in safe working condition.
- Always refer to the *Operator's Manual* for important details if you store the attachment for an extended period of time.
- Maintain or replace safety and instruction labels, as necessary.

Toro Safety

The following list contains safety information specific to Toro products or other safety information that you must know that is not included in the ANSI or ISO standards.

- Stay in the operator's position while operating the attachment. **Keep your face hands, feet, and any other part of your body or clothing away from moving or rotating parts.**
- Before adjusting, cleaning, repairing, and inspecting the attachment, **lower the attachment, stop the engine, remove the key, and wait for all moving parts to stop.**
- **Before** leaving the operator's position, lower the attachment, stop the engine, remove the key, and wait for all moving parts to stop.
- Do not wear loose-fitting clothing that could get caught in moving parts.
- If a shield, safely device, or decal is damaged, illegible, or lost, repair or replace it before beginning operation. Also, tighten any loose fasteners.
- Perform only those maintenance instructions described in this manual. Before performing any maintenance, service, or adjustment, stop the engine, remove the key, and ensure that all moving parts have stopped. If major repairs are ever needed, contact your Authorized Toro Service Dealer.
- To ensure the best performance and safety, purchase only genuine Toro replacement parts and accessories.
- Always transport the attachment in a lowered position.

Stability Ratings

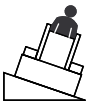
To determine the degree of slope you can traverse with the bucket installed on a traction unit, find the stability rating for the hill position you want to travel in the appropriate table below, then find the degree of slope for the same rating and hill position in the Stability Data section of the traction unit *Operator's Manual*.

⚠ WARNING

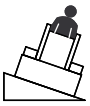
Exceeding the maximum recommended slope can cause the traction unit to tip, crushing you or bystanders.

Do not drive the traction unit on a slope steeper than the maximum recommended slope, as determined in the following tables and the traction unit *Operator's Manual*.

Stability with a Loaded Bucket

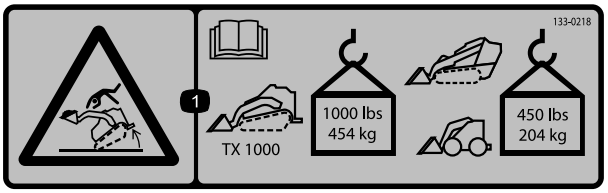
Orientation	Stability Rating
Front Uphill 	B
Rear Uphill 	D
Side Uphill 	B

Stability with an Unloaded Bucket

Orientation	Stability Rating
Front Uphill 	D
Rear Uphill 	C
Side Uphill 	C

Safety and Instructional Decals

Safety decals and instructions are easily visible to the operator and are located near any area of potential danger. Replace any decal that is damaged or lost.



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1. Tipping hazard—read the *Operator's Manual*; for the TX 1000, do not exceed loads of 1000 lb (454 kg); for other models, do not exceed loads of 450 lb (204 kg).

Operation

Note: Always use the traction unit to lift and move the attachment.

Important: Before installing the bucket, ensure that the mount plates are free of any dirt or debris and that the pins rotate freely. If the pins do not rotate freely, grease them.

Before installing or removing the bucket, position the machine on a level surface.

Refer to your traction unit *Operator's Manual* for more information on installing and removing the bucket from your traction unit.

When loading material, always have the bucket level to the ground, moving forward into the material to be lifted. When the bucket is full, tilt it gently rearward to decrease the lifting resistance when you lift the load.

When transporting a load, keep the bucket as close to the ground as possible.

Operational Specifications

Note: Specifications and design are subject to change without notice.

Width	104 cm (41 inches)
Length	58 cm (23 inches)
Height	38 cm (15 inches)
Weight	78 kg (172 lb)
Capacity (SAE struck capacity)	0.12 m^3 (4.3 ft^3)

Maximum Material Density at Capacity

The density of the materials moved by the bucket varies and, therefore, so does the amount of material that the bucket can carry before reaching the maximum load rating. Table 1 lists the density of material that can carry, both heaped and struck (i.e., leveled off), in the bucket. Table 2 lists common materials and their densities.

TX 1000

Bucket Capacity	Maximum Density
Heaped bucket	3026 kg/m³ (188 lb/ft³)
Struck (leveled) bucket	3783 kg/m³ (232 lb/ft³)

Other Models

Bucket Capacity	Maximum Density
Heaped bucket	1360 kg/m³ (85 lb/ft³)
Struck (leveled) bucket	1676 kg/m³ (104 lb/ft³)

Material Density

Material	Density (Approximate)
Caliche	1250 kg/m³ (78 lb/ft³)
Clay: Natural bed Dry Wet With gravel, dry With gravel, wet	 1600 kg/m³ (104 lb/ft³) 1480 kg/m³ (93 lb/ft³) 1660 kg/m³ (104 lb/ft³) 1420 kg/m³ (89 lb/ft³) 1540 kg/m³ (96 lb/ft³)
Coal: Anthracite, broken Bituminous, broken	 1100 kg/m³ (69 lb/ft³) 830 kg/m³ (52 lb/ft³)
Earth: Dry, packed Wet, packed Loam	 1510 kg/m³ (94 lb/ft³) 1600 kg/m³ (100 lb/ft³) 1250 kg/m³ (78 lb/ft³)
Granite, broken or large crushed	1660 kg/m³ (104 lb/ft³)
Gravel: Dry Pit run (graveled sand) Dry, 13 to 51 mm (1/2 to 2 inch) Wet, 13 to 51 mm (1/2 to 2 inch)	 1510 kg/m³ (94 lb/ft³) 1930 kg/m³ (120 lb/ft³) 1690 kg/m³ (106 lb/ft³) 2020 kg/m³ (126 lb/ft³)
Limestone, broken or crushed	1540 kg/m³ (96 lb/ft³)
Sand: Dry Wet With gravel, dry With gravel, wet	 1420 kg/m³ (89 lb/ft³) 1840 kg/m³ (115 lb/ft³) 1720 kg/m³ (107 lb/ft³) 2020 kg/m³ (126 lb/ft³)
Sandstone, broken	1510 kg/m³ (94 lb/ft³)
Shale	1250 kg/m³ (78 lb/ft³)
Slag, broken	1750 kg/m³ (109 lb/ft³)
Stone, crushed	1600 kg/m³ (100 lb/ft³)
Topsoil	950 kg/m³ (59 lb/ft³)

Storage

1. Before long-term storage, wash the attachment with mild detergent and water to remove dirt and grime.
2. Paint all scratched or bare metal surfaces.

   Note: Paint is available from your Authorized Service Dealer.
3. Store the attachment in a clean, dry garage or storage area. Cover it to protect it and keep it clean.

Toro Compact Utility Equipment Warranty

A One-Year Limited Warranty

Conditions and Products Covered

The Toro Company and its affiliate, Toro Warranty Company, pursuant to an agreement between them, jointly warrant your Toro Compact Utility Equipment ("Product") to be free from defects in materials or workmanship. The following time periods apply from the date of purchase:

Products	Warranty Period
Pro Sneak Compact Utility Loaders, Trenchers, Stump Grinders, and Attachments	1 year or 1000 operating hours, whichever occurs first
Kohler Engines	3 years*
All other Engines	2 years*

Where a warrantable condition exists, we will repair the Product at no cost to you including diagnosis, labor, and parts.

*Some engines used on Toro Products are warranted by the engine manufacturer.

Instructions for Obtaining Warranty Service

If you think that your Toro Product contains a defect in materials or workmanship, follow this procedure:

1. Contact any Authorized Toro Compact Utility Equipment (CUE) Service Dealer to arrange service at their dealership. To locate a dealer convenient to you, access our website at www.Toro.com. You may also call our Toro Customer Care Department toll free at the number below.
2. Bring the product and your proof of purchase (sales receipt) to the Service Dealer.
3. If for any reason you are dissatisfied with the Service Dealer's analysis or with the assistance provided, contact us at:

   SWS Customer Care Department
   Toro Warranty Company
   8111 Lyndale Avenue South
   Bloomington, MN 55420-1196
   Toll Free: 888-384-9940

Owner Responsibilities

You must maintain your Toro Product by following the maintenance procedures described in the *Operator's Manual*. Such routine maintenance, whether performed by a dealer or by you, is at your expense. Parts scheduled for replacement as required maintenance ("Maintenance Parts"), are warranted for the period of time up to the scheduled replacement time for that part. Failure to perform required maintenance and adjustments can be grounds for disallowing a warranty claim.

Items and Conditions Not Covered

Not all product failures or malfunctions that occur during the warranty period are defects in materials or workmanship. This express warranty does not cover the following:

- Product failures which result from the use of non-Toro replacement parts, or from installation and use of add-on, modified, or unapproved accessories
- Product failures which result from failure to perform required maintenance and/or adjustments
- Product failures which result from operating the Product in an abusive, negligent or reckless manner
- Parts subject to consumption through use unless found to be defective. Examples of parts which are consumed, or used up, during normal product operation include, but are not limited to, belts, wipers, spark plugs, tires, filters, gaskets, wear plates, seals, O-rings, drive chains, clutches.
- Failures caused by outside influence. Items considered to be outside influence include, but are not limited to, weather, storage practices, contamination, use of unapproved coolants, lubricants, additives, or chemicals, etc.
- Normal "wear and tear" items. Normal "wear and tear" includes, but is not limited to, worn painted surfaces, scratched decals, etc.
- Repairs necessary due to failure to follow recommended fuel procedure (consult *Operator's Manual* for more details)
  - Removing contaminants from the fuel system is not covered
  - Use of old fuel (more than one month old) or fuel which contains more than 10% ethanol or more that 15% MTBE
  - Failure to drain the fuel system prior to any period of non-use over one month
- Any component covered by a separate manufacturer's warranty
- Pickup and delivery charges

General Conditions

Repair by an Authorized Toro Compact Utility Equipment (CUE) Service Dealer is your sole remedy under this warranty.

Neither The Toro Company nor Toro Warranty Company is liable for indirect, incidental or consequential damages in connection with the use of the Toro Products covered by this warranty, including any cost or expense of providing substitute equipment or service during reasonable periods of malfunction or non-use pending completion of repairs under this warranty. All implied warranties of merchantability and fitness for use are limited to the duration of this express warranty. Some states do not allow exclusions of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions and limitations may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Except for the engine warranty coverage and the Emissions warranty referenced below, if applicable, there is no other express warranty. The Emissions Control System on your Product may be covered by a separate warranty meeting requirements established by the U.S. Environmental Protection Agency (EPA) or the California Air Resources Board (CARB). The hour limitations set forth above do not apply to the Emissions Control System Warranty. Refer to the California Emission Control Warranty Statement supplied with your Product or contained in the engine manufacturer's documentation for details.

Countries Other than the United States or Canada

Customers who have purchased Toro products outside the United States or Canada should contact their Toro Distributor (Dealer) to obtain guarantee policies for your country, province, or state. If for any reason you are dissatisfied with your Distributor's service or have difficulty obtaining guarantee information, contact the Toro importer. If all other remedies fail, you may contact us at Toro Warranty Company.

Australian Consumer Law: Australian customers will find details relating to the Australian Consumer Law either inside the box or at your local Toro Dealer.