Form No. 3353-840 Rev B

TORO®

Count on it.

Operator's Manual

Loose Materials Bucket

for Compact Utility Loaders

Model No. 22410—Serial No. 890001 and Up

CE

Register at www.Toro.com.

Original Instructions (EN)

There may be buried power, gas, and/or telephone lines in the work area. Shock or explosion may occur if you dig into them.

Have the property or work area marked for buried lines and do not dig in marked areas. Contact your local marking service or utility company to have the property marked (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 and 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 other 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.



There may be buried power, gas, and/or telephone lines in the work area. Shock or explosion may occur if you dig into them.

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



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 traction unit.



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

Lower the load before stepping off of the platform.



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. Carrying a load with the multi-purpose tool will make the front end heavy.



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

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

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 on the following page, 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.

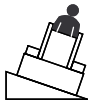


Exceeding the maximum recommended slope can cause the traction unit to tip, crushing you or bystanders.

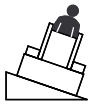
Do not drive the traction unit on a slope steeper than the maximum recommended slope, as determined in the following tables and the traction unit operator's manual.

Stability with a Loaded Bucket

For TX Traction Units or Wheeled Traction Units Without a Counterweight

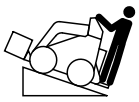
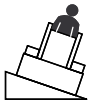
Orientation	Stability Rating
Front Uphill 	B
Rear Uphill 	D
Side Uphill 	B

For Wheeled Traction Units with a Counterweight

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

Stability with an Unloaded Bucket

For TX Traction Units or Wheeled Traction Units Without a Counterweight

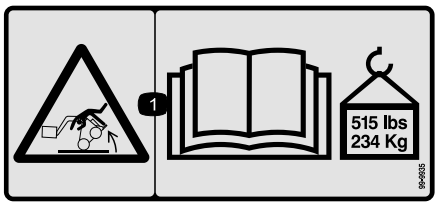
Orientation	Stability Rating
Front Uphill 	D
Rear Uphill 	C
Side Uphill 	C

For Wheeled Traction Units with a Counterweight

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

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*; the maximum load rating is 515 lbs (234 kg).

Operation

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

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 rearwards 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	48.0 inches (122 cm)
Length	26.0 inches (66 cm)
Height	18.0 inches (46 cm)
Weight	175 lb (79 Kg)
Capacity (SAE struck capacity)	6.4 ft^3 (0.18 m^3)

Maximum Material Density at Capacity

The density of materials being moved by the bucket varies and therefore so will the amount of a given material that can be carried by the bucket before the maximum load rating is reached. The first table on the following page lists the density of material that can be carried, both heaped and struck (i.e., leveled off), in the bucket. Following that is a table listing common materials and their densities.

To move materials with densities greater than the maximum allowed for the bucket, reduce the volume of material placed in the bucket.

Maximum Density for Capacity Chart

Bucket Capacity	Maximum Density
Heaped bucket	60 lb/ft^3 (950 kg/m^3)
Struck (leveled) bucket	75 lb/ft^3 (1200 kg/m^3)

Material Density Chart

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

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. 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.

Notes:



Count on it.