Form No. 3406-224 Rev A

TORO®

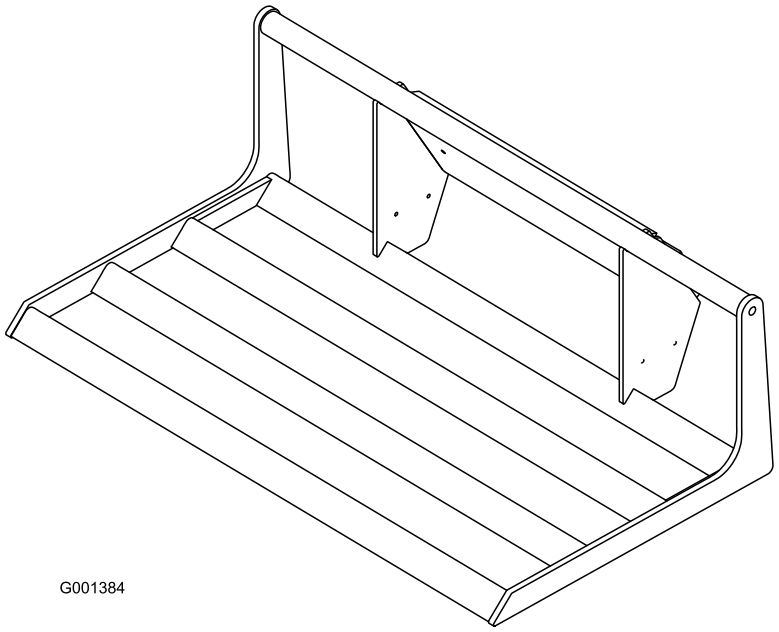
Count on it.

Operator's Manual

Leveler

Compact Utility Loaders

Model No. 23165—Serial No. 260000001 and Up



G001384

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

3406-224 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.

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. Figure 1 identifies the location of the model and serial numbers on the product. Write the numbers in the space provided.

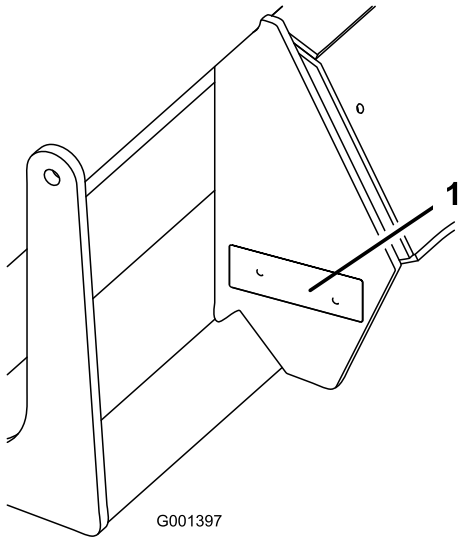


Figure 1

1. Location of the model and serial number

Model No. _____

Serial No. _____

This manual identifies potential hazards and has safety messages identified by the safety-alert symbol (Figure 2), which signals a hazard that may cause serious injury or death if you do not follow the recommended precautions.



Figure 2

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.

Contents

Safety 3
Safety and Instructional Decals 3
Product Overview 4
Specifications 4
Stability Ratings 4
Operation 5
Installing the Attachment on a Traction Unit 5
Removing the Attachment 6
Operating the Leveler 6
Operating Tips 6
Storage 7
..... 7

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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

There may be overhead power lines in the work area. A shock may occur if you touch a power line with a tree or other object that you are transporting.

Survey and mark the area where there are overhead power lines and do not transport trees or tall objects under power lines.

⚠ 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 traction unit.

⚠ 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. An empty attachment makes the rear end heavy and a loaded attachment makes the front end heavy.

⚠ WARNING

Standing on or riding on the attachment can be dangerous. The rider may fall or be injured by the moving vehicle.

Do not allow anyone to stand on the attachment or ride it in any way.

⚠ WARNING

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

Lower the attachment before stepping off the platform.

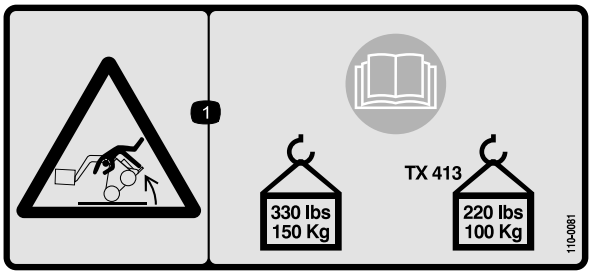
⚠ WARNING

If the attachment is not kept level while lifting, the load could be inadvertently dumped on you and injure you.

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

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.



110-0081

1. Tipping hazard, exceeding rated load capacity can cause instability—read the *Operator's Manual*; do not exceed maximum load capacity of 150 kg (330 lb); for TX 413 models, do not exceed maximum load capacity of 100 kg (220 lb).

Product Overview

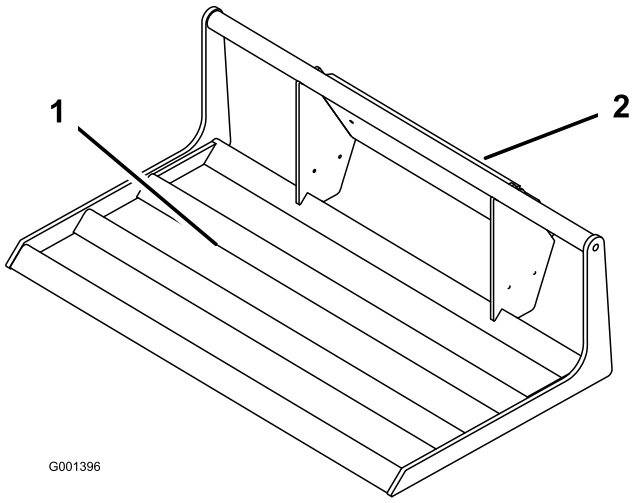


Figure 3

1. Leveler
2. Attachment plate

Specifications

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

Overall width	80 cm (31.3 inches)
Overall length	105 cm (41.2 inches)
Overall height	69 cm (27.0 inches)
Weight	74 kg (162 lb)
Load rating capacity (per SAE J1197)	150 kg (330 lb) 100 kg (220 lb) for TX 413 models

Stability Ratings

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

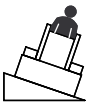
The leveler may be used when loaded or unloaded and with or without the counterweight on the traction unit. The following tables reflect the differences in stability of these various conditions.

⚠ WARNING

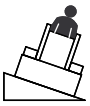
Exceeding the maximum recommended slope can cause the traction unit to tip, crushing you or bystanders.

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*.

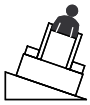
Stability with a Loaded Leveler without a Counterweight

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

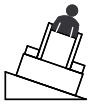
Stability with an Unloaded Leveler without a Counterweight

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

Stability with a Loaded Leveler with a Counterweight

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

Stability with an Unloaded Leveler with a Counterweight

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

Operation

Installing the Attachment on a Traction Unit

Important: Before installing the attachment, 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; refer to the traction unit *Operator's Manual* for more information.

1. Position the attachment on a level surface with enough space behind it to accommodate the traction unit.
2. Start the engine.
3. Tilt the attachment mount plate forward.
4. Position the mount plate into the upper lip of the attachment receiver plate (Figure 4).

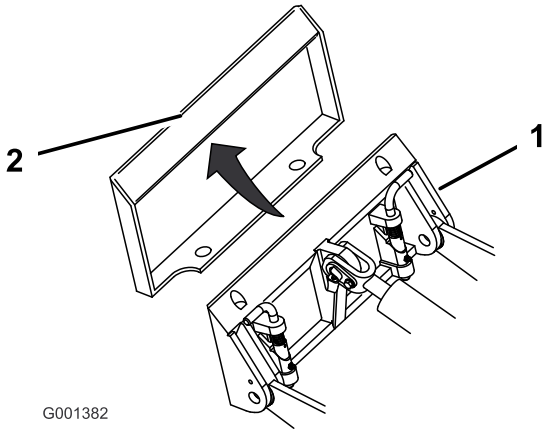


Figure 4

1. Mount plate
2. Receiver plate

5. Raise the loader arms while tilting back the mount plate at the same time.

   Important: Raise the attachment enough to clear the ground and tilt the mount plate all the way back.

6. Shut off the engine.
7. Engage the quick-attach pins, ensuring that they are fully seated in the mount plate (Figure 5).

   Important: If the pins do not rotate to the engaged position, the mount plate is not fully aligned with the holes in the attachment receiver plate. Check the receiver plate and clean it if necessary.

⚠ WARNING

If you do not fully seat the quick-attach pins through the attachment mount plate, the attachment could fall off the traction unit, crushing you or bystanders.

Ensure that the quick-attach pins are fully seated in the attachment mount plate.

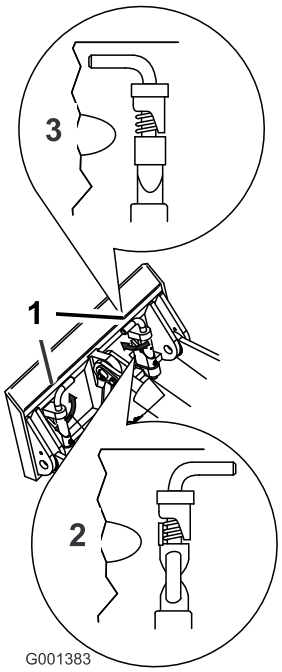


Figure 5

1. Quick-attach pins (shown in the engaged position)
2. Disengaged position
3. Engaged position

Removing the Attachment

1. Lower the attachment to the ground.
2. Shut off the engine.
3. Disengage the quick-attach pins by turning them to the outside.
4. Start the engine, tilt the mount plate forward, and back the traction unit away from the attachment.

Operating the Leveler

When leveling the ground, angle the leveler slightly to keep the forward edge higher than the rear edge. Therefore, when driving the traction unit forward, the edge farthest from the traction unit should be higher; when driving in reverse, the edge closest to the traction unit should be higher.

Operating Tips

- You can use the leveler to haul container-grown trees, shrubs, and other bulky materials.
- Position a load as close to the rear of the leveler as possible to maximize lifting capability.
- When transporting a load, keep the leveler as close to the ground as possible.
- Never attempt to lift more than the rated lift capacity of the traction unit.

Storage

1. Wash the attachment with mild detergent and water to remove dirt and grime from the entire attachment.
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.



Count on it.