

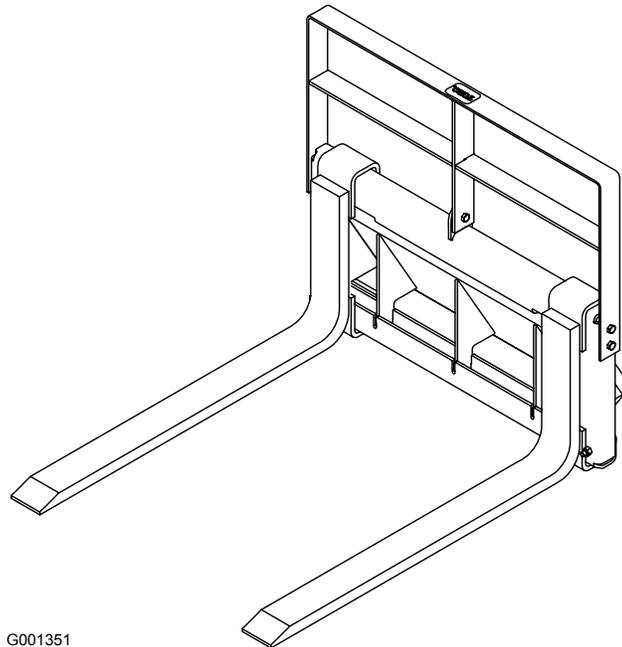


Count on it.

Operator's Manual

**Adjustable Forks
For Compact Utility Loaders**

Model No. 23164—Serial No. 260000001 and Up



G001351

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serious injury or death if you do not follow the recommended precautions.



Figure 2

1. Safety alert symbol.

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

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.

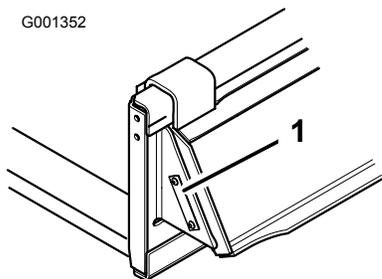


Figure 1

1. Location of 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

Safety



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.



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. Empty forks will make the rear end heavy and loaded forks will make the front end heavy.



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 forks before stepping off of the platform.



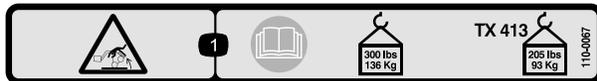
If the forks are not kept level while lifting, the load could be inadvertently dumped on the operator. The operator could be injured when the load is dumped.

When lifting the forks, tilt them forward to keep them level and prevent spilling backwards.

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, exceeding rated load capacity can cause instability—read the *Operator's Manual*; do not exceed maximum load capacity of 300 lbs (136kg); for TX 413 models, do not exceed maximum load capacity of 205 lbs (93kg).

Setup

Loose Parts

Use the chart below to verify that all parts have been shipped.

Step	Description	Qty.	Use
1	Adjustable forks frame	1	Assemble the forks
	Fork	2	
	Upper fork frame	1	
	Bolt, 3/8 x 1 inch	7	
	Locknut, 3/8 inch	7	

Step **1**

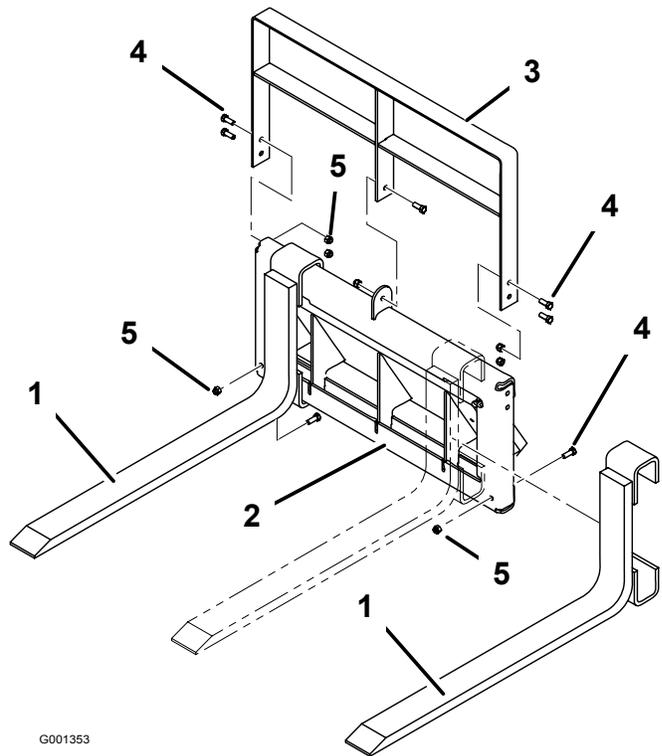
Assembling the Forks

Parts needed for this step:

1	Adjustable forks frame
2	Fork
1	Upper fork frame
7	Bolt, 3/8 x 1 inch
7	Locknut, 3/8 inch

Procedure

1. Install the forks over the adjustable fork frame as shown in Figure 3. Secure each fork with a bolt (3/8 x 1 inch) and locknut (3/8 inch).



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Figure 3

- | | |
|---------------------|-----------------------|
| 1. Fork | 4. Bolt, 3/8 x 1 inch |
| 2. Fork frame | 5. Locknut, 3/8 inch |
| 3. Upper fork frame | |

2. Install the upper fork frame over the assembly as shown in Figure 3. Secure the upper frame using 5 bolts (3/8 x 1 inch) and 5 locknuts (3/8 inch).
3. Tighten all fasteners securely.

Product Overview

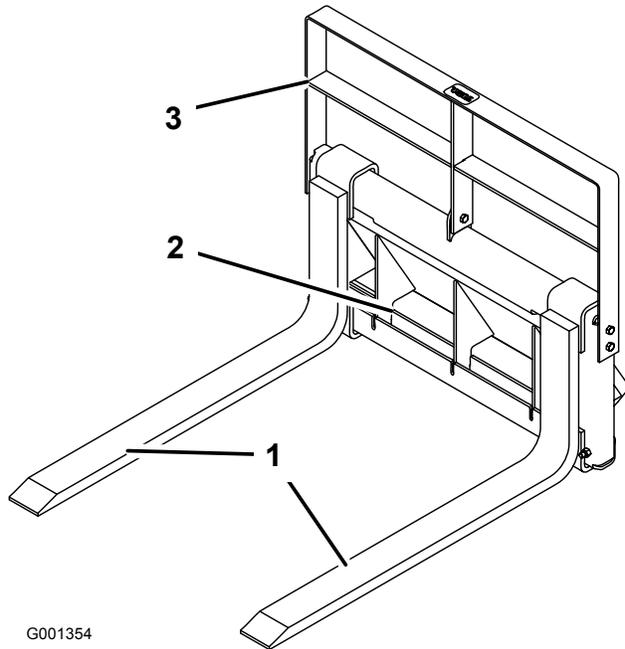


Figure 4

- 1. Fork
- 2. Adjustable fork frame
- 3. Upper frame

Specifications

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

Overall width	31.3 inches (80 cm)
Overall length	41.2 inches (105 cm)
Overall height	27.0 inches (69 cm)
Weight	162 lbs (74 Kg)
Fork length	31.5 inches (80 cm)
Fork cross-section size	3.0 inches (7.6 cm) x 1.0 inch (2.5 cm)
Fork width adjustment range (outside to outside dimensions)	6.5 to 30.0 inches (17 to 76 cm)
Load rating capacity (per SAE J1197)	300 lbs (152 Kg) 205 lbs (93 Kg) for TX413 models

Stability Ratings

To determine the degree of slope you can traverse with the forks 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 traction unit *Operator's Manual*.

Important: The forks are rated for use with the counterweight. Do not use the forks without the counterweight or the traction unit will become unstable.

Stability With a Loaded Forks

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

Stability With Unloaded Forks

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



Exceeding the maximum slope can cause the traction unit to tip. If the traction unit tips, you or bystanders could be crushed.

Do not drive the traction unit on a slope steeper than the maximum slope.

Operation

Installing the Forks on the 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 mount plate into the upper lip of the attachment receiver plate (Figure 5).

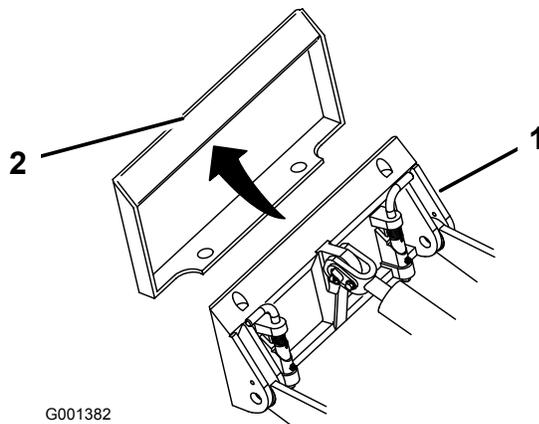


Figure 5

1. Mount plate
2. Receiver plate

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

Important: The attachment should be raised enough to clear the ground, and the mount plate should be tilted all the way back.

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

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.


If you do not fully seat the quick attach pins through the attachment mount plate, the attachment could fall off of the traction unit, crushing you or bystanders.
Ensure that your quick attach pins are fully seated in the attachment mount plate.

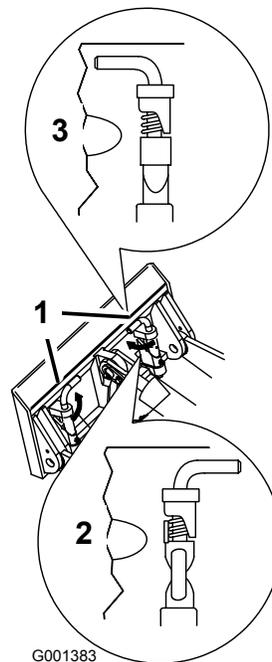


Figure 6

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. Stop 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 Tips

- To adjust the forks, slide them along the frame to the desired width. The forks should always be adjusted to the widest possible setting to ensure that the load will be as stable as possible.
- When transporting a load, keep the forks as close to the ground as possible.
- Never use the forks for prying as damage may occur.
- Never attempt to lift more than the rated lift capacity of the traction unit.

Maintenance



Do Not leave the key in the ignition switch, someone could start the engine. Accidental starting of the engine could seriously injure you or other bystanders.

Remove the key from the ignition switch before performing any maintenance.

Storage

1. Before long term storage, 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.