Form No. 3353-850 Rev B

TORO®

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# Operator's Manual

# 48in Hydraulic Blade

## for Compact Utility Loaders

**Model No. 22414—Serial No. 260000001 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 blade pivot frame. 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.**

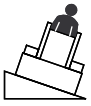
**Operate up and down slopes with the heavy end of the machine uphill.**

# Stability Ratings

To determine the degree of slope you can traverse with the attachment 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.**

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

**Important: When using this attachment with traction units with wheels and a built-in rear operator's platform, do not use the counterweight. If you use the counter weight, the traction unit will be less stable in the front and side uphill orientations.**

## 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.




**100-4650**

1. Crushing hazard of hand—keep bystanders a safe distance from the machine.
2. Crushing hazard of foot—keep bystanders a safe distance from the machine.

# Operation

**Important: 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 attachment from your traction unit.

## Operational Specifications

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

| | |
|---|---|
| Width | 47.75 inches (121.3 cm) |
| Length | 25.0 inches (63.5 cm) |
| Height | 21.0 inches (53 cm) |
| Weight | 212 lb (96.2 Kg) |

## Blade Operation

**Note:** If you traction unit has a speed selector, move it to the Fast position.

- To angle the blade to the right, pull the auxiliary hydraulics lever to the operator grip.
- To angle the blade to the left, push the auxiliary hydraulics lever away from the operator grip.

## Operating Tips

- Clean the area of trash, branches and rocks before beginning work to prevent equipment damage.
- Always begin with the slowest ground speed possible. Increase speed if conditions permit.
- Always use full throttle (maximum engine speed).
- Never transport the blade with the loader arms raised. Keep the arms lowered and the blade tilted up.
- When scraping, leveling, and surface stripping, lower the blade to the ground, ensuring that the cutting edge makes contact. The blade will bite into the soil as you move forward.

# Maintenance

## *Recommended Maintenance Schedule(s)*

| Maintenance Service Interval | Maintenance Procedure |
|---|---|
| Before each use or daily | • Grease the hydraulic cylinder pivot points. (Grease all fittings immediately after every washing.) |
| Every 200 hours | • Inspect the hydraulic hoses and replace them if they are damaged. |
| Before storage | • Inspect the hydraulic hoses and replace them if they are damaged.<br>• Paint chipped or worn surfaces. |
| Yearly | • Check the blade cutting edge for wear. |

**If you 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 you do any maintenance.**

## Greasing the Hydraulic Cylinder Pivot Points

**Service Interval:** Before each use or daily (Grease all fittings immediately after every washing.)

Grease Type: General-purpose grease

1. Stop the engine and remove the key.
2. Clean the grease fittings with a rag.
3. Connect a grease gun to each fitting.
4. Pump grease into the fittings until grease begins to ooze out of the bearings.
5. Wipe up any excess grease.

## Checking the Blade Cutting Edge

**Service Interval:** Yearly

If the blade is badly worn, complete the following procedure:

1. Remove the pins securing the blade to the frame and hydraulic cylinder and remove the blade.
2. Turn the blade 180 degrees so the worn edge is on top, then install it back on the mounting frame and hydraulic cylinder.

# Storage

1. Before long term storage, wash the attachment with mild detergent and water to remove dirt and grime.
2. Check the condition of the cutting edge. Remove and rotate the blade 180 degrees so the worn edge is on top, if it is badly worn.
3. Check and tighten all bolts, nuts, and screws. Repair replace any part that is damaged or worn.
4. Ensure that all hydraulic couplers are connected together to prevent contamination of the hydraulic system.
5. Paint all scratched or bare metal surfaces. Paint is available from your Authorized Service Dealer.
6. Store the attachment in a clean, dry garage or storage area. Cover it to protect it and keep it clean.

# Troubleshooting

| Problem | Possible Cause | Corrective Action |
|---|---|---|
| Blade will not change angle. | 1. Hydraulic coupler not completely connected | 1. Check and tighten all couplers. |
| | 2. Damaged hydraulic coupler | 2. Check couplers and replace any that are damaged. |
| | 3. An obstruction in a hydraulic hose | 3. Find and remove the obstruction. |
| | 4. Auxiliary valve on the traction unit is not opening. | 4. Repair the valve. |
| | 5. Damaged hydraulic cylinder | 5. Replace or repair the cylinder. |

# Notes:




**Count on it.**