



**Count on it.**

**Operator's Manual**

**48in Hydraulic Blade  
Compact Utility Loaders**

Model No. 22414—Serial No. 314000001 and Up



**⚠ 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.**

This product complies with all relevant European directives; for details, please see the separate product specific Declaration of Conformity (DOC) sheet.

**⚠ DANGER**

**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

The machine is a grader blade designed to attach to a Toro compact utility loader. The blade is designed to hydraulically change its angle as needed for earth and snow grading applications.

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](http://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.

<p><b>Model No.</b> _____</p> <p><b>Serial No.</b> _____</p>
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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.

## ⚠ DANGER

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).

## ⚠ 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.

## ⚠ WARNING

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.

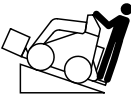

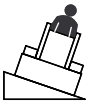
# Stability Ratings

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*.

## ⚠ 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*.

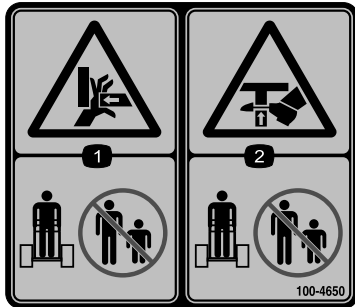
Orientation	Stability Rating
Front Uphill 	D
Rear Uphill 	C
Side Uphill 	B

**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 counterweight, 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	121 cm (48 inches)
Length	63.5 cm (25 inches)
Height	53 cm (21 inches)
Weight	96 kg (212 lb)

## Blade Operation

**Note:** If your 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	<ul style="list-style-type: none"><li>Grease the hydraulic cylinder pivot points (grease all fittings immediately after every washing).</li></ul>
Every 200 hours	<ul style="list-style-type: none"><li>Inspect the hydraulic hoses and replace them if they are damaged.</li></ul>
Before storage	<ul style="list-style-type: none"><li>Inspect the hydraulic hoses and replace them if they are damaged.</li><li>Paint chipped or worn surfaces.</li></ul>
Yearly	<ul style="list-style-type: none"><li>Check the blade cutting edge for wear.</li></ul>

### **⚠ CAUTION**

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 Type:** General-purpose grease

1. Stop the engine and remove the key from the ignition.
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 or 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
The blade will not change angle.	<ol style="list-style-type: none"><li data-bbox="586 212 1029 268">1. A hydraulic coupler is not completely connected.</li><li data-bbox="586 279 1029 310">2. A hydraulic coupler is damaged.</li><li data-bbox="586 338 1029 394">3. There is an obstruction in a hydraulic hose.</li><li data-bbox="586 405 1029 462">4. An auxiliary valve on the traction unit is not opening.</li><li data-bbox="586 472 1029 489">5. A hydraulic cylinder is damaged.</li></ol>	<ol style="list-style-type: none"><li data-bbox="1062 212 1507 243">1. Check and tighten all couplers.</li><li data-bbox="1062 279 1507 336">2. Check the couplers and replace any that are damaged.</li><li data-bbox="1062 346 1507 378">3. Find and remove the obstruction.</li><li data-bbox="1062 405 1507 436">4. Repair the valve.</li><li data-bbox="1062 464 1507 489">5. Replace or repair the cylinder.</li></ol>

# Declaration of Incorporation

The Toro Company, 8111 Lyndale Ave. South, Bloomington, MN, USA declares that the following unit(s) conform(s) to the directives listed, when installed in accordance with the accompanying instructions onto certain Toro models as indicated on the relevant Declarations of Conformity.

Model No.	Serial No.	Product Description	Invoice Description	General Description	Directive
22414	314000001 and Up	48in Hydraulic Blade	HYD BLADE ATTACHMENT CE	Hydraulic Blade	2006/42/EC

Relevant technical documentation has been compiled as required per Part B of Annex VII of 2006/42/EC.

We will undertake to transmit, in response to requests by national authorities, relevant information on this partly completed machinery. The method of transmission shall be electronic transmittal.

This machinery shall not be put into service until incorporated into approved Toro models as indicated on the associated Declaration of Conformity and in accordance with all instructions, whereby it can be declared in conformity with all relevant Directives.

Certified:



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June 6, 2014

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# Toro Compact Utility Equipment Warranty

A One-Year Limited Warranty

Compact Utility Equipment  
(CUE) Products

## 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](http://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 than 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.