Form No. 3479-179 Rev B

TORO®

Count on it.

Operator's Manual

# Floor Scraper

## e-Dingo® Compact Tool Carrier

**Model No. 22674—Serial No. 4000000000 and Up**

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

CE UK CA

*3479-179*

**⚠ WARNING**

**CALIFORNIA**
**Proposition 65 Warning**

**Use of this product may cause exposure to chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.**

# Introduction

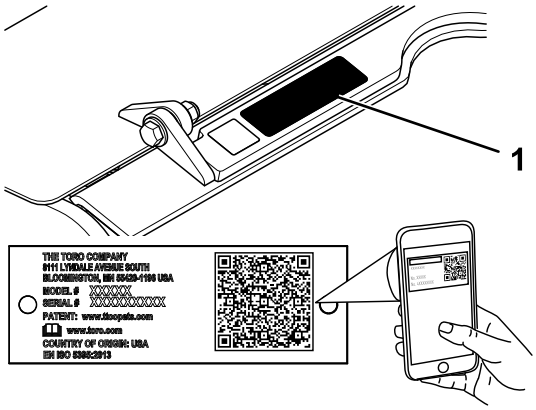
The floor scraper is intended to be used on a Toro compact tool carrier. It is designed to remove flooring such as vinyl, wood, carpet and other flooring materials. Using this product for purposes other than its intended use could prove dangerous to you and bystanders.

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.

Visit www.Toro.com for more information, including safety tips, training materials, 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.

***Important:*** **With your mobile device, you can scan the QR code on the serial number decal (if equipped) to access warranty, parts, and other product information.**




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**Figure 1**

1. Model and serial number location

**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.



g000502

**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.

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# Safety

## General Safety

Always follow all safety instructions to avoid serious injury or death.

- Do not exceed the rated operating capacity, as the machine may become unstable, which may result in loss of control.
- **Do not transport an attachment with the arms raised or extended (if applicable)**. Always transport the attachment close to the ground; refer to Transport Position (page 11).
- Have the property or work area marked for buried lines and other objects, and do not dig in marked areas.
- Read and understand the content of this *Operator's Manual* before starting the machine.
- Use your full attention while operating the machine. Do not engage in any activity that causes distractions; otherwise, injury or property damage may occur.
- Never allow children or untrained people to operate the machine.
- Keep your hands and feet away from the moving components and attachments.
- Do not operate the machine without the guards and other safety protective devices in place and working on the machine.
- Keep bystanders and pets away from the machine.
- Stop the machine, shut off the machine, and remove the key before servicing, fueling, or unclogging the machine.

Improperly using or maintaining this machine can result in injury. To reduce the potential for injury, comply with these safety instructions and always pay attention to the safety-alert symbol ⚠, which means Caution, Warning, or Danger—personal safety instruction. Failure to comply with these instructions may result in personal injury or death.

## Slope Safety

- **Operate the machine up and down slopes with the heavy end of the machine uphill.** Weight distribution changes with attachments. This attachment makes the front of machine the heavy end.
- Raising or extending (if applicable) the loader arms on a slope affects the stability of the machine. Keep the loader arms in the lowered and retracted position when on slopes..
- Slopes are a major factor related to loss of control and tip-over accidents, which can result in severe

injury or death. Operating the machine on any slope or uneven terrain requires extra caution.

- Establish your own procedures and rules for operating on slopes. These procedures must include surveying the site to determine which slopes are safe for machine operation. Always use common sense and good judgment when performing this survey.
- Slow down and use extra care on hillsides. Ground conditions can affect the stability of the machine.
- Avoid starting or stopping on a slope. If the machine loses traction, proceed slowly, straight down the slope.
- Avoid turning on slopes. If you must turn, turn slowly and keep the heavy end of the machine uphill.
- Keep all movements on slopes slow and gradual. Do not make sudden changes in speed or direction.
- If you feel uneasy operating the machine on a slope, do not do it.
- Watch for holes, ruts, or bumps, as uneven terrain could overturn the machine. Tall grass can hide obstacles.
- Use caution when operating on wet surfaces. Reduced traction could cause sliding.
- Evaluate the area to ensure that the ground is stable enough to support the machine.
- Use caution when operating the machine near the following:
  - Drop-offs
  - Ditches
  - Embankments
  - Bodies of water

  The machine could suddenly roll over if a track goes over the edge or the edge caves in. Maintain a safe distance between the machine and any hazard.
- Do not remove or add attachments on a slope.
- Do not park the machine on a hillside or slope.

# Floor Scraper Safety

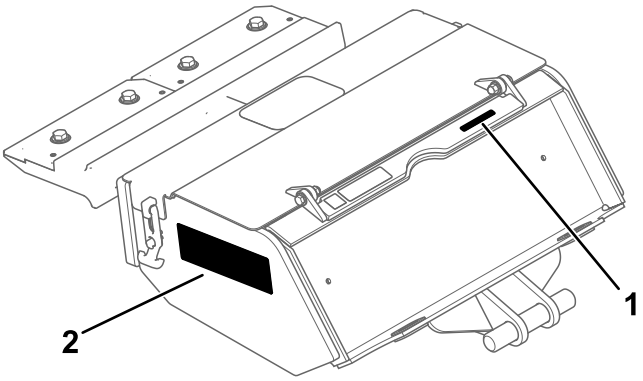
- Wear cut-resistant gloves and use caution when installing, removing, or servicing the scraper blade.
- Keep fingers and body parts away from the sharp edges of the scraper blade.
- Remove the scraper blade before moving or changing the blade-holder assembly.

# Maintenance and Storage Safety

- Check fasteners at frequent intervals for proper tightness to ensure that the equipment is in safe operating condition.
- Refer to this *Operator's Manual* for important details if you store the attachment for an extended period of time.
- Maintain or replace safety and instruction labels, as necessary.

# 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 missing.




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**Figure 3**

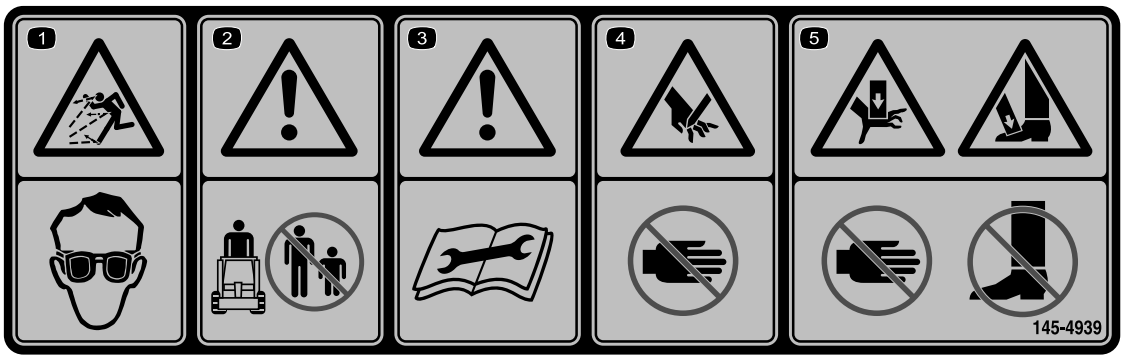
Safety-decal locations

1. 133-8061
2. 145-4939




decal133-8061

**133-8061**




decal145-4939

**145-4939**

1. Thrown object hazard—wear eye protection
2. Warning—keep bystanders away
3. Warning—read the *Operator's Manual* before performing maintenance.
4. Cutting hazard of the hand—keep hands away from the attachment.
5. Crushing hazard of hands or feet—keep feet away from the attachment.

# Product Overview

## Specifications

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

| | |
|---|---|
| Width | 64.1 cm (25.3 inches) |
| Length | 88.6 cm (34.9 inches) |
| Height | 25.1 cm (9.9 inches) |
| Weight | 254 kg (560 lb) |

To ensure optimum performance and continued safety certification of the machine, use only genuine Toro replacement parts and accessories. Replacement parts and accessories made by other manufacturers could be dangerous, and such use could void the product warranty.

# Operation

Determine the left and right sides of the machine from the normal operating position.

## Installing and Removing the Attachment

Refer to the *Operator's Manual* for the traction unit for the installation and removal procedure.

For traction unit model 22219 only, install the backstop assembly before installing the attachment; refer to Installing the Backstop Assembly (page 7).

***Important:*** **Before installing the attachment, position the machine on a level surface, ensure that the mount plates are free of any dirt or debris, and ensure that the pins move freely. If the pins do not move freely, grease them.**

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

**⚠ WARNING**

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

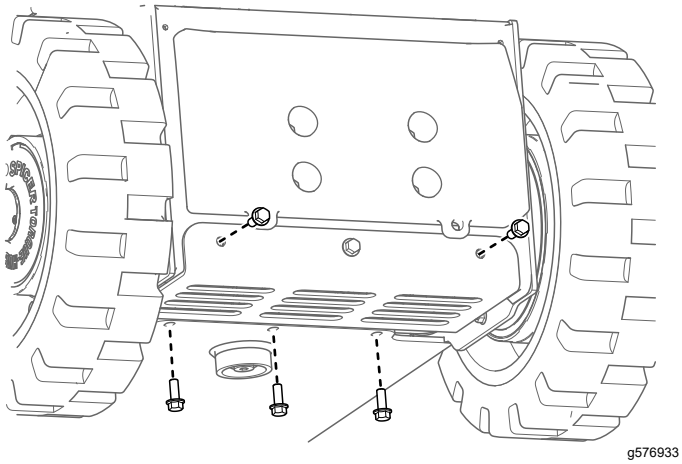
**Ensure that the quick-attach pins are fully seated in the attachment mount plate.**

# Installing the Backstop Assembly

## For Traction Unit Model 22219 Only

1. Park the machine on a level surface, remove any attachment, raise the loader arms, and install the cylinder locks.
2. Shut off the machine and remove the key.
3. Remove the 3 bolts under the machine and 2 bolts from the front skid plate.

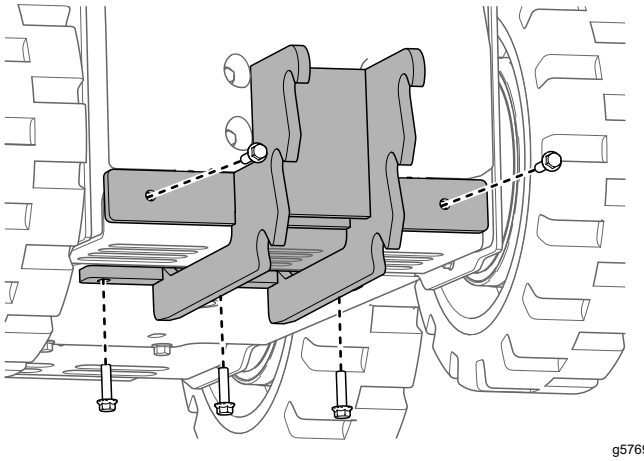
   **Note:** Retain the bolts; install them whenever you remove the backstop assembly.



g576933

**Figure 4**

4. Install the backstop assembly using the supplied bolts (3/8 x 1-1/2 inches).



g576932

**Figure 5**

5. Remove and store the cylinder locks and lower the loader arms.

# Installing and Removing the Blade Assembly

**Service Interval:** Before each use or daily—Lubricate the blade-holder assembly shaft.

**⚠ CAUTION**

**The blade assembly is heavy. Hands or other body parts could be crushed.**

**Use caution when installing the assembly.**

**⚠ WARNING**

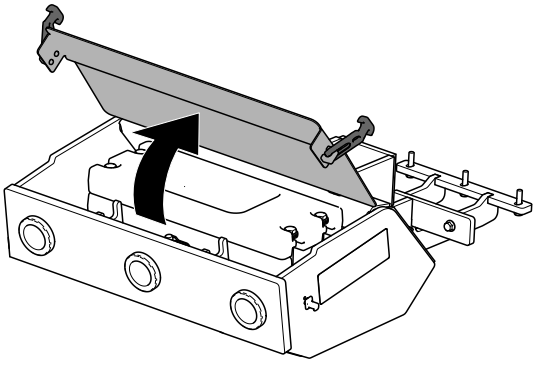
**The scraper blade is sharp and can cut your hands.**

**Wear heavy leather or cut resistant gloves and move tools *away* from the blade edge when installing or removing the blade.**

## Installing the Blade Assembly

Refer to Selecting a Blade (page 9) to select the appropriate blade for the application.

1. Park the machine on a level surface.
2. Raise the attachment a few inches off the ground for easier access.
3. Engage the parking brake, shut off the machine, and remove the key.
4. Unhook the latches and open the cover.

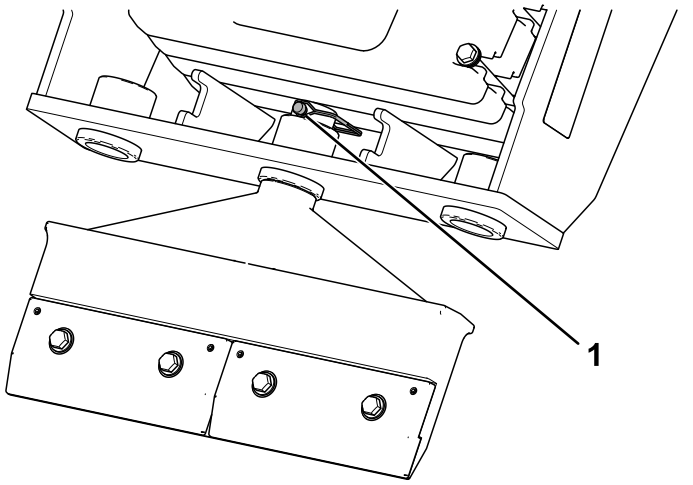


g576808

**Figure 6**

5. Lubricate the shaft of the blade-holder assembly, then install it into 1 of the 3 tubes on the attachment. Secure it with a locking pin.

   **Note:** Use the side tubes when removing flooring close to vertical surfaces, such as walls.




g576806

**Figure 7**

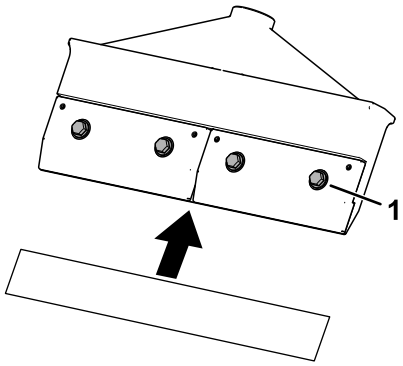
1. Locking pin

6. Loosen the 4 bolts on the blade-holder clamp 2 turns counterclockwise. Do not remove the bolts.

**⚠ WARNING**

**Removing the bolts can cause the clamp to not securely hold the blade, which can slip and injure you.**

**Only loosen the bolts; do not remove them.**




g576807

**Figure 8**

1. Bolt (4)

7. Carefully torque the bolts to 142 N·m (105 ft-lb).
8. Close the cover and secure the latches.

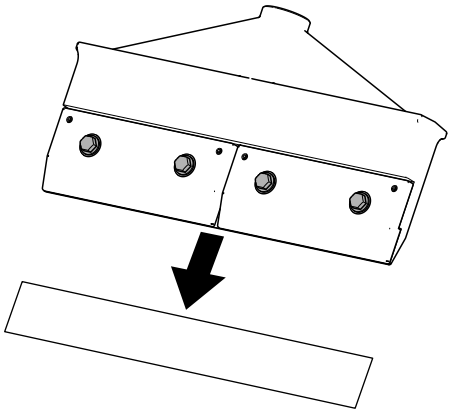
# Removing the Blade Assembly

1. Park the machine on a level surface and engage the parking brake.
2. Raise the attachment a few inches off the ground for easier access.
3. Shut off the machine, and remove the key.
4. Loosen the 4 bolts on the blade-holder clamp 2 turns counterclockwise.

**⚠ WARNING**

**Removing the bolts can cause the clamp to not securely hold the blade, which can slip and injure you.**

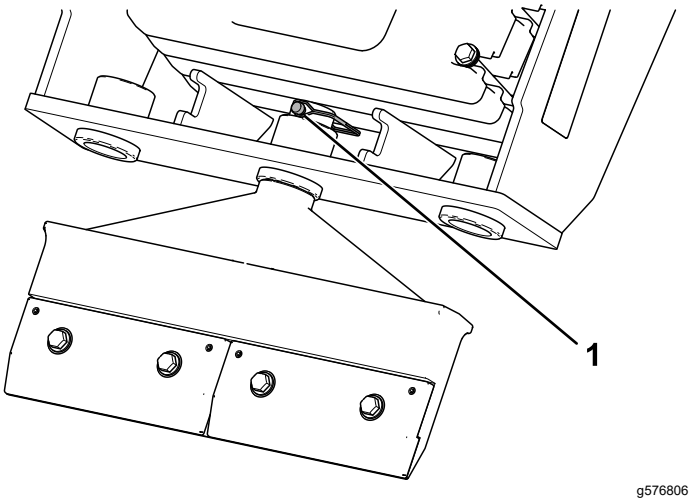
**Only loosen the bolts; do not remove them.**



g576809

**Figure 9**

5. Remove the blade
6. Unhook the latches and open the cover.
7. Remove the locking pin and the blade-holder assembly.




g576806

**Figure 10**

1. Locking pin

# Selecting a Blade

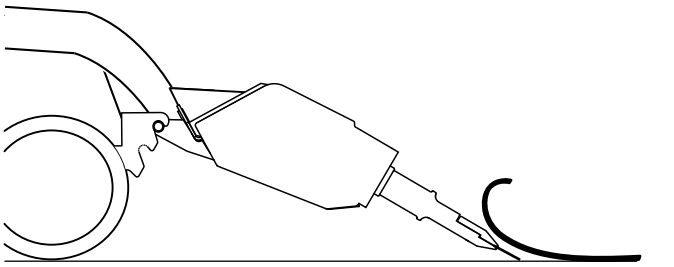
Refer to the table below to select the appropriate blade for the application.

| | Straight/Flat Blade | | | | Blade with 90° cutting wings | | Ceramic Removal Tool | | Chisel Tip Blade |
|---|---|---|---|---|---|---|---|---|---|
| | Heavy Duty 20 cm (8 inch) | Heavy Duty 30.5 cm (12 inch) | 30.5 cm (12 inch) | Heavy Duty 61 cm (24 inch) | 25 cm (10 inch) | 56 cm (22 inch) | Single tooth | Dual tooth | All sizes |
| Vinyl tile | X | X | X | X | | | | | |
| Carpet squares | X | X | X | X | | | | | |
| Carpet | | | | | X | X | | | |
| Ceramic tile | | | X | | | | X | X | X |
| Quarry tile | | | | | | | X | X | X |
| Level coat | | | X | | | | | X | X |
| Linoleum | | | | | X | X | | | |
| Rubber gym floor | | | | | X | X | | | |
| Wood floor | | | | | | | X | X | X |
| Elastomeric coating | | | X | | | | | | |
| Paint | | X | | | | | | | |
| Epoxy | | X | X | | | | | | X |
| Grease and grime | | | | X | | | | | |
| Asphalt | | X | X | X | | | | | X |
| Tennis court surface | | X | X | X | | | | | |
| Track surface | | X | X | X | | | | | |
| Glue | | X | X | X | | | | | |
| Mastic | | X | X | X | | | | | |
| Striping | | X | X | X | | | | | |
| Tape | | X | X | X | | | | | |
| Road reflector | | X | X | X | | | | | X |
| Tar paper | | X | X | X | | | | | |
| Cork floor | | X | X | X | | | | | |
| Plywood sub-floor | | | | | | | X | X | X |

# Removing Flooring

1. Fully tilt the attachment rearward and lower the loader arms. Use this as the starting angle for scraping the floor.

   **Note:** Using a scraper angle greater than 30 degrees can cause premature wear on the blade and reduce visibility of the area being scraped.



g576998

**Figure 11**

2. Drive the traction unit forward to remove flooring.
3. As the blade edge wears, tilt the scraper attachment in small increments as needed.

# Using the Backstop Slots

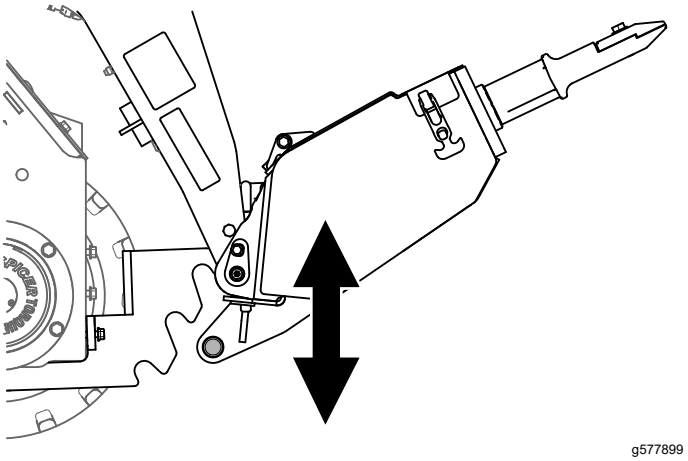
## For Traction Unit Model 22219 Only

Use the slots in the backstop to lock the angle of the floor scraper and prevent bouncing the loader arms.

- Use the lowest slot for a more shallow blade angle for carpet and other materials that are easier to remove.
- Use the highest slot for a steeper blade angle for material that is heavily bonded to the substrate.

**Note:** To minimize blade wear and substrate damage, use the lowest slot first and move up slots as needed.

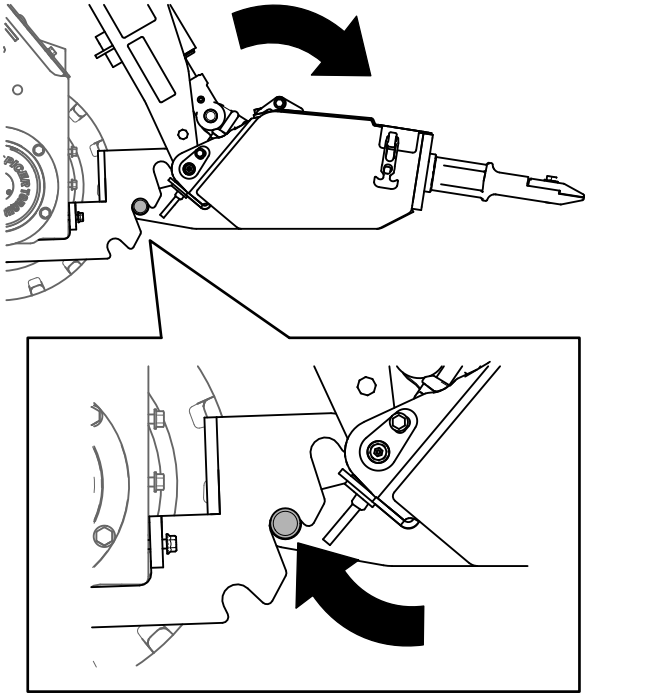
1. Rotate the floor scraper rearward, and raise or lower the loader arms near the height of the desired backstop slot.



g577899

**Figure 12**

2. Rotate the floor scraper so that the pin rotates into the desired slot and locks the scraper into position.



g577900

**Figure 13**

3. Remove the flooring.
4. After each pass, rotate the scraper rearward to raise the blade; then, rotate the scraper forward to use the same slot on the next pass.

# Transport Position

When transporting the attachment, keep it as close to the ground as possible, no more than 15 cm (6 inches) above the ground. Tilt it rearward.

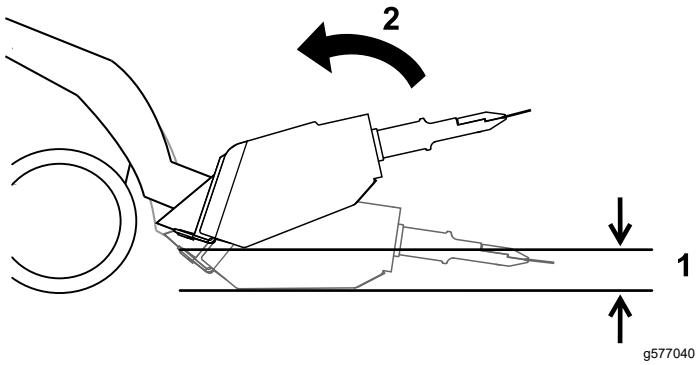



**Figure 14**

1. No more than 15 cm (6 inches) above the ground
2. Tilt the attachment rearward.

# 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. If the edge is badly worn, remove the blade, rotate it 180 degrees, and install it so that the worn edge is on top.
3. Check and tighten all bolts, nuts, and screws. Repair or replace any part that is damaged or worn.
4. Paint all scratched or bare metal surfaces.

   **Note:** Paint is available from your Authorized Service Dealer.
5. Store the attachment in a clean, dry garage or storage area. Cover it to protect it and keep it clean.

# California Proposition 65 Warning Information

## What is this warning?

You may see a product for sale that has a warning label like the following:



**WARNING:** Cancer and Reproductive Harm—www.p65Warnings.ca.gov.

## What is Prop 65?

Prop 65 applies to any company operating in California, selling products in California, or manufacturing products that may be sold in or brought into California. It mandates that the Governor of California maintain and publish a list of chemicals known to cause cancer, birth defects, and/or other reproductive harm. The list, which is updated annually, includes hundreds of chemicals found in many everyday items. The purpose of Prop 65 is to inform the public about exposure to these chemicals.

Prop 65 does not ban the sale of products containing these chemicals but instead requires warnings on any product, product packaging, or literature with the product. Moreover, a Prop 65 warning does not mean that a product is in violation of any product safety standards or requirements. In fact, the California government has clarified that a Prop 65 warning "is not the same as a regulatory decision that a product is 'safe' or 'unsafe.'" Many of these chemicals have been used in everyday products for years without documented harm. For more information, go to https://oag.ca.gov/prop65/faqs-view-all.

A Prop 65 warning means that a company has either (1) evaluated the exposure and has concluded that it exceeds the "no significant risk level"; or (2) has chosen to provide a warning based on its understanding about the presence of a listed chemical without attempting to evaluate the exposure.

## Does this law apply everywhere?

Prop 65 warnings are required under California law only. These warnings are seen throughout California in a wide range of settings, including but not limited to restaurants, grocery stores, hotels, schools, and hospitals, and on a wide variety of products. Additionally, some online and mail order retailers provide Prop 65 warnings on their websites or in catalogs.

## How do the California warnings compare to federal limits?

Prop 65 standards are often more stringent than federal and international standards. There are various substances that require a Prop 65 warning at levels that are far lower than federal action limits. For example, the Prop 65 standard for warnings for lead is 0.5 µg/day, which is well below the federal and international standards.

## Why don't all similar products carry the warning?

- Products sold in California require Prop 65 labelling while similar products sold elsewhere do not.
- A company involved in a Prop 65 lawsuit reaching a settlement may be required to use Prop 65 warnings for its products, but other companies making similar products may have no such requirement.
- The enforcement of Prop 65 is inconsistent.
- Companies may elect not to provide warnings because they conclude that they are not required to do so under Prop 65; a lack of warnings for a product does not mean that the product is free of listed chemicals at similar levels.

## Why does Toro include this warning?

Toro has chosen to provide consumers with as much information as possible so that they can make informed decisions about the products they buy and use. Toro provides warnings in certain cases based on its knowledge of the presence of one or more listed chemicals without evaluating the level of exposure, as not all the listed chemicals provide exposure limit requirements. While the exposure from Toro products may be negligible or well within the "no significant risk" range, out of an abundance of caution, Toro has elected to provide the Prop 65 warnings. Moreover, if Toro does not provide these warnings, it could be sued by the State of California or by private parties seeking to enforce Prop 65 and subject to substantial penalties.