Form No. 3458-220 Rev A

TORO®

Count on it.

Operator's Manual

72in Rotary Mower

Groundsmaster® 360 Series and 7200 Series Traction Unit

Model No. 30353—Serial No. 405700000 and Up
Model No. 30353—Serial No. 403373001 and Up
Model No. 30456—Serial No. 405700000 and Up
Model No. 30457—Serial No. 405700000 and Up
Model No. 30481—Serial No. 405700000 and Up
Model No. 30481—Serial No. 403373001 and Up

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

CE UK CA

3458-220

Model 30456 complies with all relevant European directives when the CE Kit (Model 30658) is installed on the cutting unit. Model 30353 requires CE Kit Model 30685; 30457 requires CE Kit 30683; 30481 requires CE Kit 30679. For additional details, see the separate product specific Declaration of Conformity (DOC) sheet.

⚠ 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.

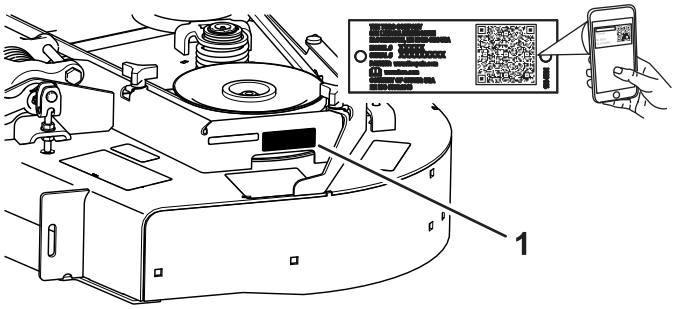
Introduction

This rotary-blade lawn cutting deck is mounted to a ride-on machine and is intended to be used by professional, hired operators in commercial applications. It is primarily designed for cutting grass on well-maintained lawns in parks, sports fields, and on commercial grounds.

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



g310316

Figure 1

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.

Contents

8111 Lyndale Avenue South
Bloomington, MN 55420

Contact us at www.Toro.com.
Printed in the USA.

Safety

This machine has been designed in accordance with ANSI B71.4-2017 and EN ISO 5395.

General Safety

This product is capable of amputating hands and feet and of throwing objects. Always follow all safety instructions to avoid serious personal injury

- Read and understand the contents 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.
- Do not put your hands or feet near moving components of the machine.
- Do not operate the machine without all guards and other safety protective devices in place and functioning properly on the machine.
- Keep clear of any discharge opening.
- Keep bystanders and children out of the operating area. Never allow children to operate the machine.
- Before you leave the operator's position, do the following:
  - Park the machine on a level surface.
  - Lower the cutting unit(s).
  - Disengage the drives.
  - Engage the parking brake (if equipped).
  - Shut off the engine and remove the key.
  - Wait for all movement to stop.

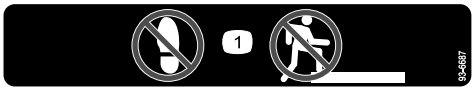
Improperly using or maintaining this machine can result in injury. To reduce the potential for injury, comply with these safety instructions and always pay attention to the safety-alert symbol ⚠, which means Caution, Warning, or Danger—personal safety instruction. Failure to comply with these instructions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

Cutting Unit Safety

- The cutting unit is only a complete machine when installed on a traction unit. Read the traction unit *Operator's Manual* carefully for complete instructions on the safe use of the machine.
- Stop the machine, remove the key, and wait for all moving parts to stop before inspecting the attachment after striking an object or if there is an abnormal vibration in the machine. Make all necessary repairs before resuming operation.
- Keep all parts in good working condition and all hardware tightened. Replace all worn or damaged decals.
- Use only accessories, attachments, and replacement parts approved by Toro.

Safety and Instructional Decals

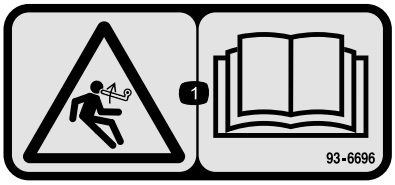
Safety decals and instructions are easily visible to the operator and are located near any area of potential danger. Replace any decal that is damaged or missing.



decal93-6687

93-6687

1. Do not step here.



decal93-6696

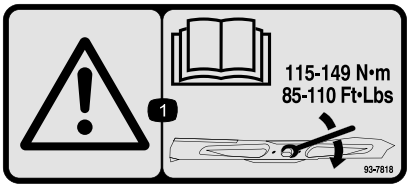
93–6696

1. Stored energy hazard—read the *Operator's Manual*.

decal93-6697

93-6697

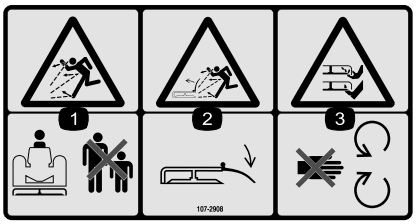
1. Read the *Operator's Manual*.
2. Add SAE 80w-90 (API GL-5) oil every 50 hours.



decal93-7818

93-7818

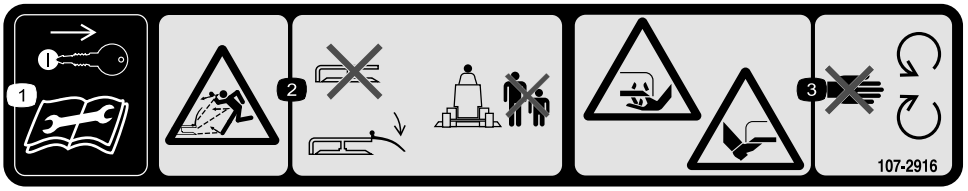
1. Warning—read the *Operator's Manual* for instructions on torquing the blade bolt/nut to 115-149 N-m (85-110 ft-lb).



decal107-2908

107-2908

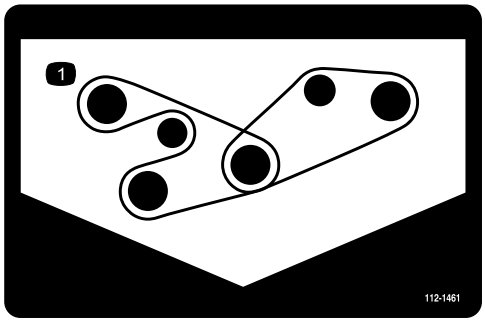
1. Thrown object hazard—keep bystanders away.
2. Thrown object hazard—lower the deflector before using the machine.
3. Cutting/dismemberment hazard of hand or foot, mower blade—stay away from moving parts.



decal107-2916

107-2916

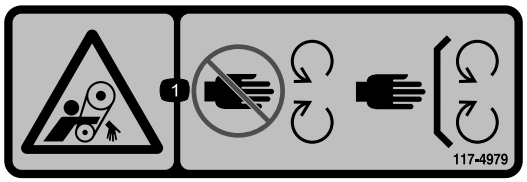
1. Remove the key and read the *Operator's Manual* before performing maintenance.
2. Thrown object hazard—do not operate the mower with the deflector up or removed; lower the deflector before using the machine; keep bystanders away.
3. Cutting/dismemberment hazard of hand or foot, mower blade—stay away from moving parts.



decal112-1461

112-1461

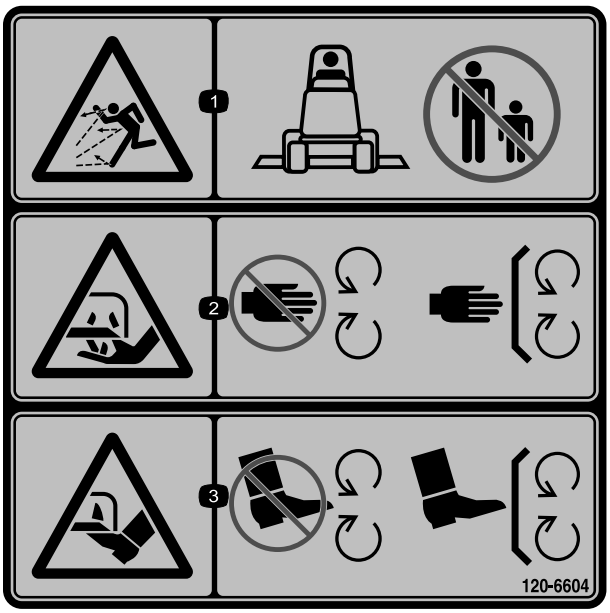
1. Belt routing



decal117-4979

117–4979

1. Entanglement hazard, belt—stay away from moving parts, keep all guards and shields in place.



decal120-6604

120-6604

1. Thrown object hazard—keep bystanders away from the machine.
2. Cutting/dismemberment hazard of hand, mower blade—stay away from moving parts, keep all guards and shields in place.
3. Cutting/dismemberment hazard of foot, mower blade—stay away from moving parts, keep all guards and shields in place.

decal133-8061

133-8061

Setup

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

Installing the Pedal Spacer

For 60-inch and 62-inch Mower Decks on Groundsmaster 360 Machines

Note: This procedure is only for 60 and 62-inch mower decks installed on Groundsmaster 360 machines.

1. Remove the existing spacer from the machine as shown in Figure 3.
2. Install the new pedal spacer and with the new bolt (3/8 x 2-1/2 inch) and the existing hardware; refer to Figure 3.

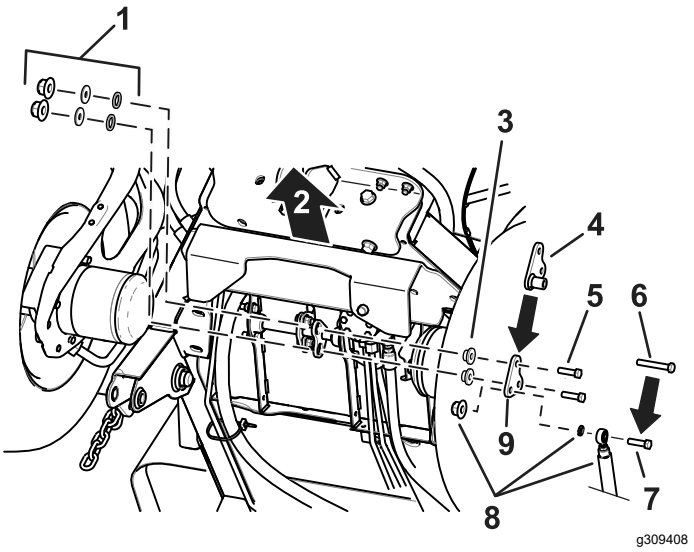


Figure 3

1. Existing hardware
2. Front of machine
3. Existing washers
4. New pedal spacer
5. Existing bolts
6. Bolt (3/8 x 2-1/2 inch)
7. Discard the bolt
8. Existing hardware
9. Discard the existing spacer

Removing the Existing Cutting Unit (If Equipped)

1. Park the machine on a level surface with the cutting unit in the fully raised position. Shut off the engine, engage the parking brake, and remove the key.

   Note: When the cutting unit is in the raised position, the pull-link torsion spring tension (Figure 4) is reduced, making it much easier to disconnect the pull links from the machine.

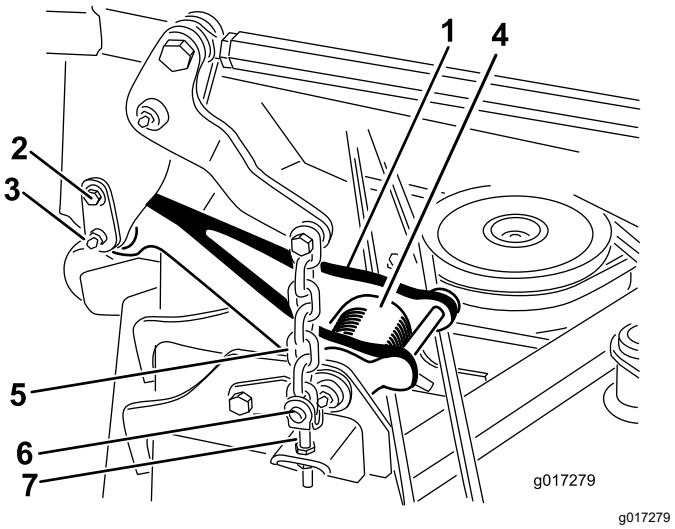


Figure 4

1. Pull link (cutting unit raised)
2. Shoulder screw
3. Retainer pin
4. Torsion spring
5. Cutting unit lift chain
6. Clevis pin
7. Adjustment clevis

2. Disconnect the pull link from each side of the machine (Figure 4).

   ⚠ CAUTION

   The pull link torsion springs may cause some rotation of the pull links during the removal process.

   Use caution when disconnecting the pull links.

   A. Remove the shoulder screw that secures the retainer pin to the carrier frame (Figure 4).

   B. Carefully slide the retainer pin from the carrier frame and the pull link (Figure 4).

3. Note the location of the HOC pin in the HOC bracket for assembly purposes (Figure 5). Remove the HOC pin from the HOC bracket.

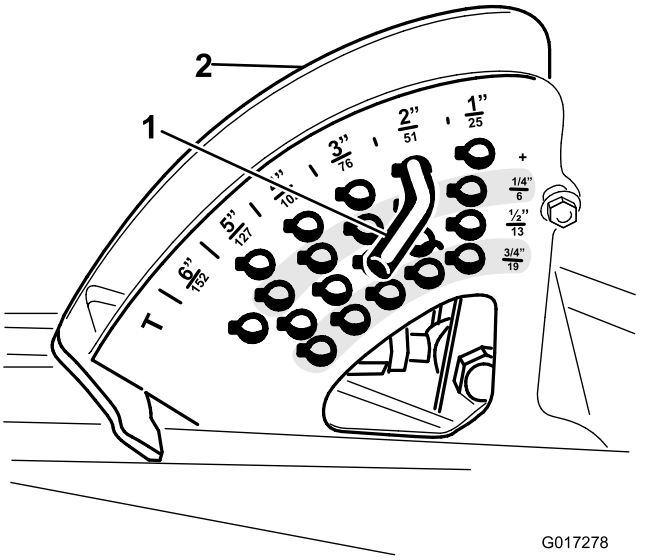


Figure 5

1. HOC pin
2. HOC bracket

4. Start the engine, lower the cutting unit to the ground, shut off the engine, and remove the key.

   Note: Lowering the cutting unit onto furniture dollies aids in removing the cutting unit.

⚠ WARNING

If the engine is started and the PTO driveshaft is allowed to rotate, serious personal injury and machine damage could result.

- **When the driveshaft is disconnected from the cutting unit, do not start the engine and engage the PTO switch.**
- **If the driveshaft is disconnected from the mower, remove fuse F1 (15 A) from the fuse block to prevent unintentional engagement of the PTO clutch.**

5. Disconnect the end yoke of the PTO driveshaft from the cutting unit gearbox shaft:

   A. Remove the roll pin from the end yoke and the gearbox shaft (Figure 6).

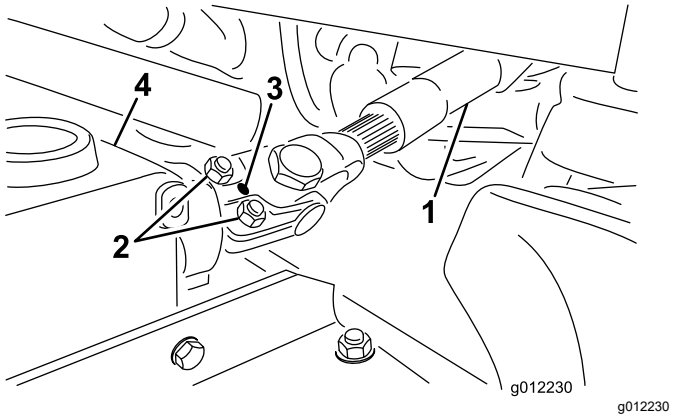


Figure 6

1. Drive shaft
2. Capscrews and locknuts
3. Roll pin
4. Gearbox

   B. Loosen the 2 capscrews and locknuts (Figure 6).

   C. Slide the drive shaft end yoke from the gearbox shaft.

      Note: Raise and tie the drive shaft to the frame.

6. Remove the 4 ring pins and clevis pins that secure the lift chains to the adjustment clevises on the mower (Figure 4).
7. Slide the cutting unit away from the machine.

   Note: You may have to elevate the front of the traction unit to move the cutting unit away from the machine.

Installing the New Cutting Unit

1. Slide the new cutting unit under the carrier frame of the machine.
2. Install the 4 clevis pins and ring pins to secure the cutting unit lift chains to the adjustment clevises on the mower (Figure 4).
3. Connect the end yoke of the PTO drive shaft to the cutting unit gearbox; refer to the following steps:

   A. Align the spline and roll pin holes of the drive shaft yoke with the gear box shaft.

   B. Slide the PTO drive shaft end yoke onto the gearbox shaft.

   C. Secure the end yoke of the PTO drive shaft to the gearbox shaft with the roll pin (Figure 6).

   D. Tighten the locknuts to secure the end yoke to the gearbox shaft (Figure 6). Torque the locknuts to 20 to 25 N·m (175 to 225 in-lb).

4. Start the engine and fully raise the cutting unit. Shut off the engine and remove the key from the ignition switch.

   Note: Place a wood block or similar shim under each link to hold it in the raised position.

   ⚠ CAUTION

   The pull link torsion springs may cause some rotation of the pull links during installation.

   Use caution when connecting the pull links to the machine.

5. Align the pull link to the carrier frame and attach the link with the retainer pin (Figure 4). Secure the retainer pin to the frame with the shoulder screw (Figure 4).
6. Install the HOC pin into the HOC bracket at the desired height of cut (Figure 5).
7. Lubricate the PTO drive shaft grease fittings.
8. Install the F1 fuse (15 A) into the fuse block.

Leveling the Cutting Unit

Leveling Side-to-Side

1. Position the machine on a level surface on the shop floor and lower the cutting unit.
2. Move the throttle lever to the SLOW position, shut off the engine, engage the parking brake, and remove the key.
3. Set the cutting unit to a 127 mm (5 inch) height of cut.
4. Check and adjust the front and rear traction-unit tire pressure; refer to *Operator's Manual* for pressure specifications.
5. Check for bent blades; refer to Checking for Bent Blades (page 18).
6. Rotate the blade on each spindle until the ends face forward and backward.
7. Measure from the floor to the front tip of the cutting edge.
8. Adjust the jam nuts securing the mower yokes/chains to the mower until the cutting unit is level (Figure 7).

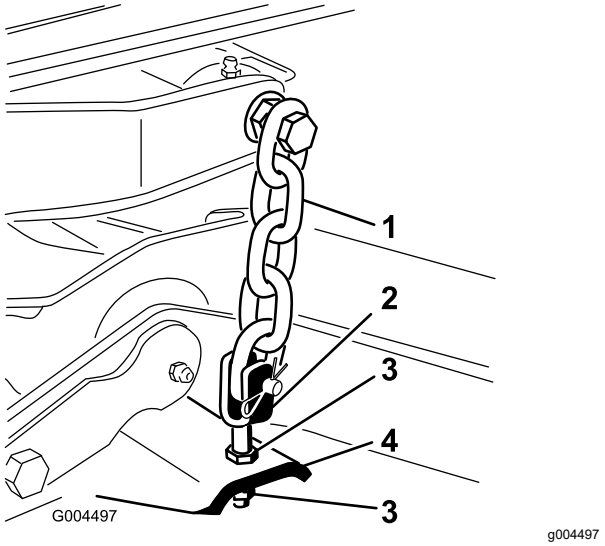


Figure 7

1. Chain
2. Yoke
3. Jam nut
4. Mower

Leveling Front-to-Back

Cutting unit pitch is the difference in height of cut from the front-to-back of the blade plane. A blade pitch of approximately 8 to 11 mm (5/16 to 7/16 inch) is recommended (i.e., the back of the blade plane is 8 to 11 mm (5/16 to 7/16 inch) higher than the front).

1. Set the cutting unit to the desired height-of-cut, move the throttle lever to the SLOW position, shut off the engine, engage the parking brake, and remove the key.
2. Rotate the center blade so that it points straight forward.
3. Using a short ruler, measure from the floor to the front tip of the blade.
4. Rotate the same blade tip to the rear and measure from the floor to the tip of the blade at the rear of the cutting unit.
5. Subtract the front dimension from the rear dimension to calculate the blade pitch.
6. Adjust the jam nuts securing the rear mower yokes/chains (Figure 7) to raise the rear of the cutting unit so that the blade pitch is set to 8 to 11 mm (5/16 to 7/16 inch).

Operation

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

Adjustments

Adjusting the Height-of-Cut

The height-of-cut is adjusted from 2.5 to 15.8 cm (1 to 6 inches) in 6 mm (1/4 inch) increments by relocating the stop pin into different hole locations.

1. With the engine running, push back on the cutting unit lift switch until the cutting unit is fully raised and **release the switch immediately** (Figure 8).

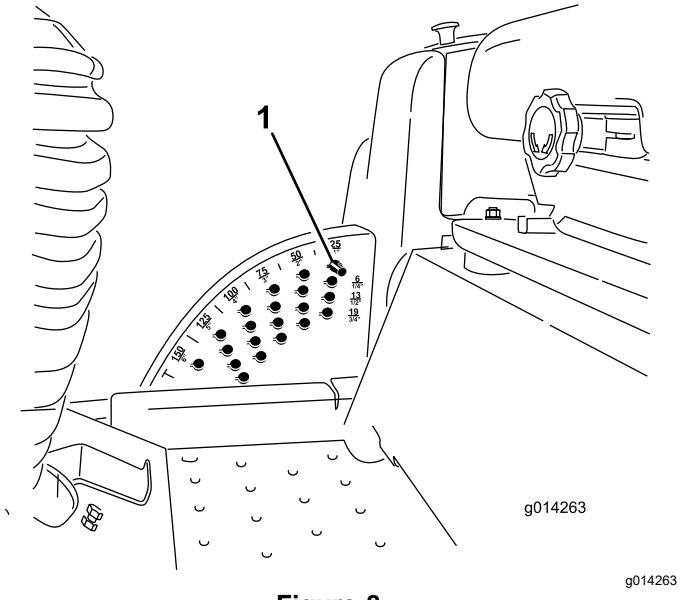


Figure 8

1. Stop pin

2. To adjust the height of cut, rotate the stop pin until the nub on it lines up with the slots in the holes in the height-of-cut bracket and remove it (Figure 8).
3. Select a hole in the height-of-cut bracket corresponding to the height-of-cut desired, insert the pin, and rotate it down to lock it in place (Figure 8).

   Note: There are 4 rows of hole positions (Figure 8). The top row gives you the height of cut listed above the pin. The second row down gives you the height listed plus 6 mm (1/4 inch). The third row down gives you the height listed plus 12 mm (1/2 inch). The bottom row gives you the height listed plus 18 mm (3/4 inch). For the 15.8 cm (6 inch) position there is only 1 hole, located in the second row. This does not add 6 mm (1/4 inch) to the 15.8 cm (6 inch) position.
4. Adjust the anti-scalp rollers and skids as required.

Adjusting the Skid(s)

Mount the skids in the lower position when operating in height of cuts higher than 64 mm (2-1/2 inches) and in the higher position when operating in height of cuts lower than 64 mm (2-1/2 inches).

Note: On Guardian® mowers, when the skids become worn, you can switch the skid to the opposite sides of the cutting unit, flipping them over. This will allow you to use the skids longer before replacing them.

1. Disengage the PTO and engage the parking brake.
2. Move the throttle lever to the SLOW position, shut off the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
3. Loosen the screw at the front of each skid. There are 2 skids on Guardian mowers and 1 skid on side-discharge cutting units (Figure 9).

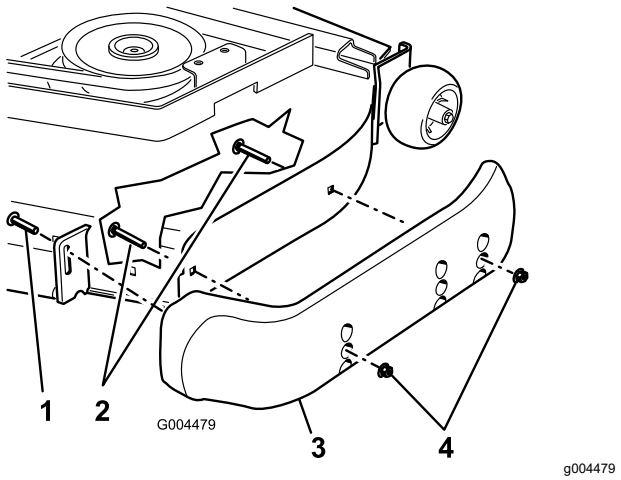


Figure 9

1. Screw
2. Flange-head bolt
3. Skid
4. Nut

4. Remove the flange-head bolts and nuts from each skid.
5. Move each skid to the desired position and secure them with the flange-head bolts and nuts.

   Note: Only use the top or center sets of holes to adjust the skids. The bottom holes are used when switching sides on a Guardian mower, at which time they become the top holes on the other side of the cutting unit.
6. Torque the screw at the front of each skid to 9 to 11 N-m (80 to 100 in-lb).

Adjusting the Rear Anti-Scalp Rollers

Whenever you change the height-of-cut, adjust the height of the rear anti-scalp rollers.

1. Disengage the PTO, release the traction pedal, and engage the parking brake.
2. Move the throttle lever to the SLOW position, shut off the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
3. After adjusting the height-of-cut, adjust the rollers by removing the flange nut, bushing, spacer, and bolt (Figure 10).

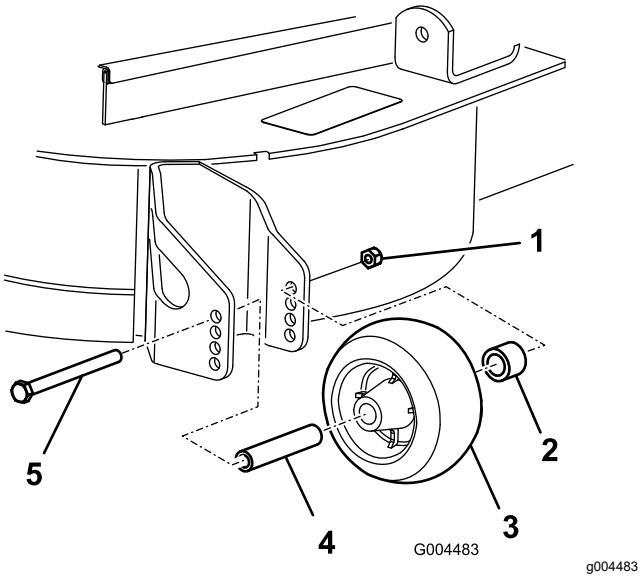


Figure 10

1. Flange nut
2. Bushing
3. Anti-scalp roller
4. Spacer
5. Bolt

4. Select a hole so the anti-scalp roller is positioned to the nearest corresponding height-of-cut desired (Figure 11).

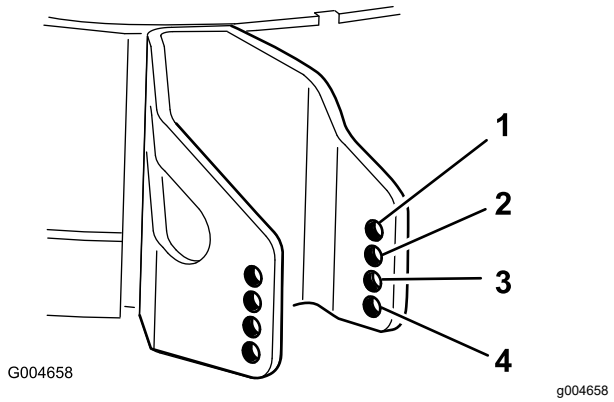


Figure 11

1. 38 mm (1-1/2 inches)
2. 51 mm (2 inches)
3. 63 mm (2-1/2 inches)
4. 76 mm (3 inches) and higher

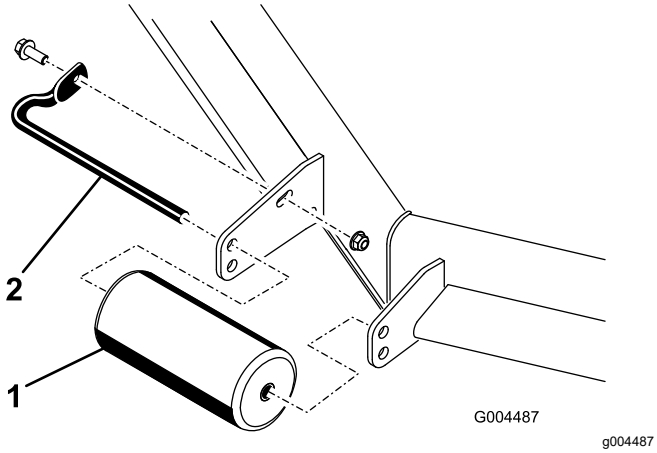
5. Install the flange nut bushing, spacer, and bolt. Torque to 54 to 61 N·m (40 to 45 ft-lb) (Figure 10).

Adjusting the Rollers

Mount the rollers in the lower position when operating in height of cuts higher than 64 mm (2-1/2 inches) and in the higher position when operating in height of cuts lower than 64 mm (2-1/2 inches).

1. Disengage the PTO, release the traction pedal, and engage the parking brake.
2. Move the throttle lever to the SLOW position, shut off the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
3. Raise the front of the machine and support it on jack stands.
4. Remove the fasteners securing each roller on your cutting unit and move the rollers up or down as desired; refer to Figure 12 through Figure 16 as applicable for your cutting unit.

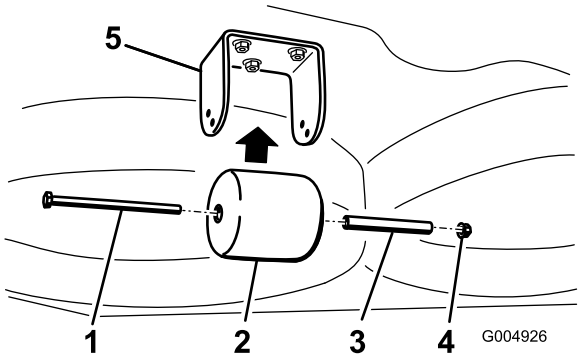
   Note: You may need to remove the front roller for certain Groundsmaster 7200 and 7210 models.



g004487

Figure 12
All Cutting Units

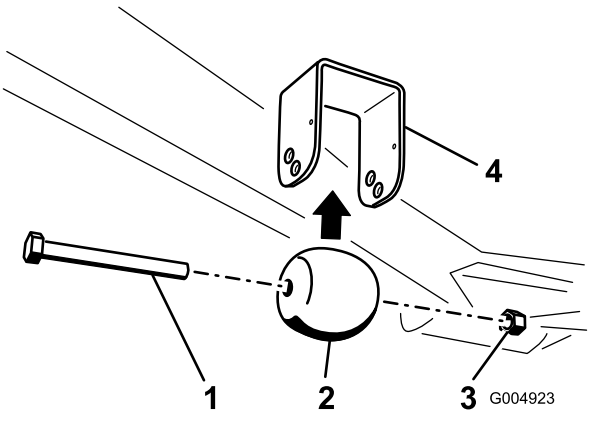
1. Front roller
2. Roller shaft



g004926

Figure 13
Guardian mowers only

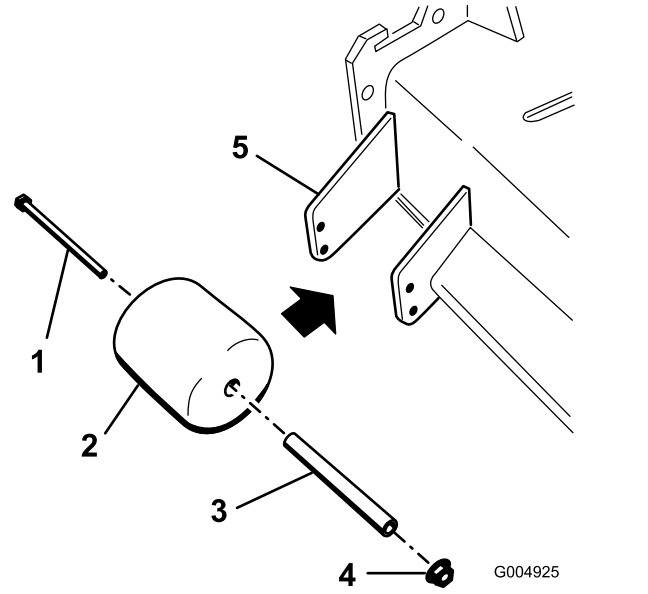
1. Bolt
2. Rear under-cutting unit roller
3. Spacer
4. Nut
5. Bracket



g004923

Figure 14
Guardian mower only

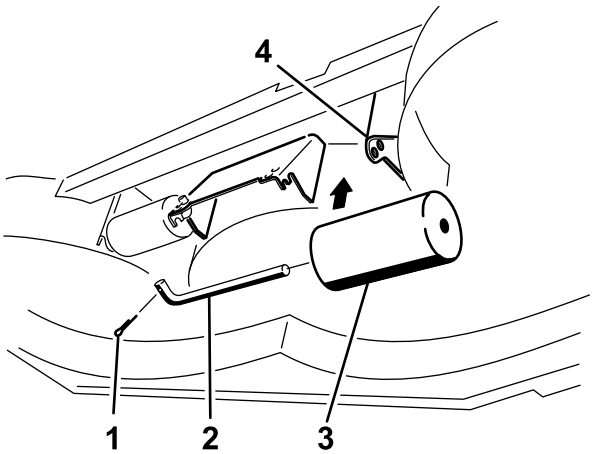
1. Bolt
2. Front under-cutting unit roller
3. Nut
4. Bracket



g004925

Figure 15
Side-discharge cutting units only

1. Bolt
2. Chute-side roller
3. Spacer
4. Nut
5. Bracket



g004924

Figure 16
Side-discharge cutting units only

1. Bolt
2. Roller shaft
3. Under-cutting unit roller (2)
4. Bracket

5. Install the fasteners as illustrated.

Operating Tips

Fast Throttle Setting/Ground Speed

To maintain enough power for the machine and deck while mowing, operate the engine at the fast throttle position and adjust your ground speed for conditions. Decrease the ground speed as the load on the cutting blades increases. Increase the ground speed as the load on the blades decreases.

Mowing Direction

Alternate mowing direction to avoid making ruts in the turf over time. This also helps disperse clippings which enhances decomposition and fertilization.

Cutting Speed

To improve cut quality, use a slower ground speed.

Avoid Cutting Too Low

If the cutting width of the cutting unit is wider than the mower you previously used, raise the cutting height to ensure that uneven turf is not cut too short.

Select the Proper Height-of-Cut Setting to Suit Conditions

Remove approximately 1 inch (25 mm) or no more than 1/3 of the grass blade when cutting. In exceptionally lush and dense grass, you may have to slow down the forward speed and/or raise the height-of-cut to the next higher setting.

Important: **If cutting more than 1/3 of the grass blade off, or in sparse long grass or dry conditions, the use of flat sail blades is recommended to reduce air-borne chaff, debris, and deck drive component strain.**

Long Grass

If the grass is ever allowed to grow slightly longer than normal, or if it contains a high degree of moisture, raise the cutting height higher than usual and cut the grass at this setting. Then cut the grass again using the lower, normal setting.

Keep the Cutting Unit Clean

Clean clippings and dirt from the underside of the cutting unit after each use. If grass and dirt build up inside the cutting unit, cutting quality will eventually become unsatisfactory.

To reduce the risk of fire hazard, keep the engine, muffler, battery compartment, parking brake, cutting units, and fuel storage compartment free of grass, leaves, or excessive grease. Clean up any spilled oil or fuel.

Blade Maintenance

Maintain a sharp blade throughout the cutting season because a sharp blade cuts cleanly without tearing or shredding the grass blades. Tearing and shredding turns grass brown at the edges, which slows growth and increases the chance of disease. Check the blades daily for sharpness, and for any wear or damage. Sharpen the blades as necessary. If a blade is damaged or worn, replace it immediately with a genuine Toro replacement blade. Refer to Servicing the Cutting Blades (page 17).

Maintenance

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

⚠ WARNING

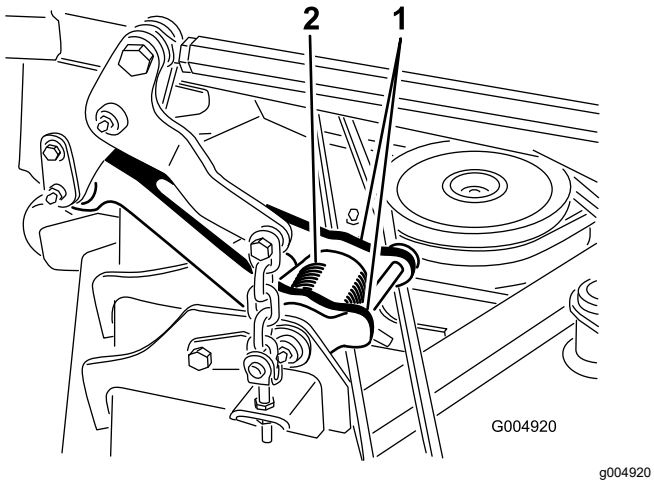
If you raise the machine using only a jack to support it while you work under the cutting unit, the jack could tip, causing the mower deck to fall, crushing you or bystanders.

Always secure the machine with at least 2 jack stands when you have the mower deck raised.

⚠ CAUTION

On the top of the cutting unit are 2 links that connect them to the frame. Connected to these links are torsion spring that are under tension (Figure 17). If you disconnect the link, the stored energy in the torsion spring will be released and could cause the links to move, damaging your hands or fingers.

Be careful when removing the cutting unit from the frame and secure the links before disconnecting them from the frame.



g004920

Figure 17

1. Link
2. Torsion spring

Recommended Maintenance Schedule(s)

Maintenance Service Interval	Maintenance Procedure
After the first 50 hours	• Check the condition of the blade drive belts on the cutting unit.
Before each use or daily	• Check the cutting unit blades. • Clean the cutting unit.
Every 50 hours	• Grease the bearing and bushing grease fittings.

Daily Maintenance Checklist

Duplicate this page for routine use.

Maintenance Check Item	For the week of:						
	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.	Sun.
Check Safety Interlock Operation							
Check Grass Deflector in Down Position (if applicable)							
Check Parking Brake Operation							
Check Fuel Level							
Check Tire Pressure							
Check Instrument Operation							
Check Condition of Blades							
Lubricate All Grease Fittings[1]							
Touch-up Damaged Paint							
1. Immediately after every washing, regardless of the interval listed.							

Notation for Areas of Concern		
Inspection performed by:		
Item	Date	Information

⚠ CAUTION

If you leave the key in the ignition switch, someone could accidently start the engine and seriously injure you or other bystanders.

Remove the key from the ignition before you do any maintenance.

Lubrication

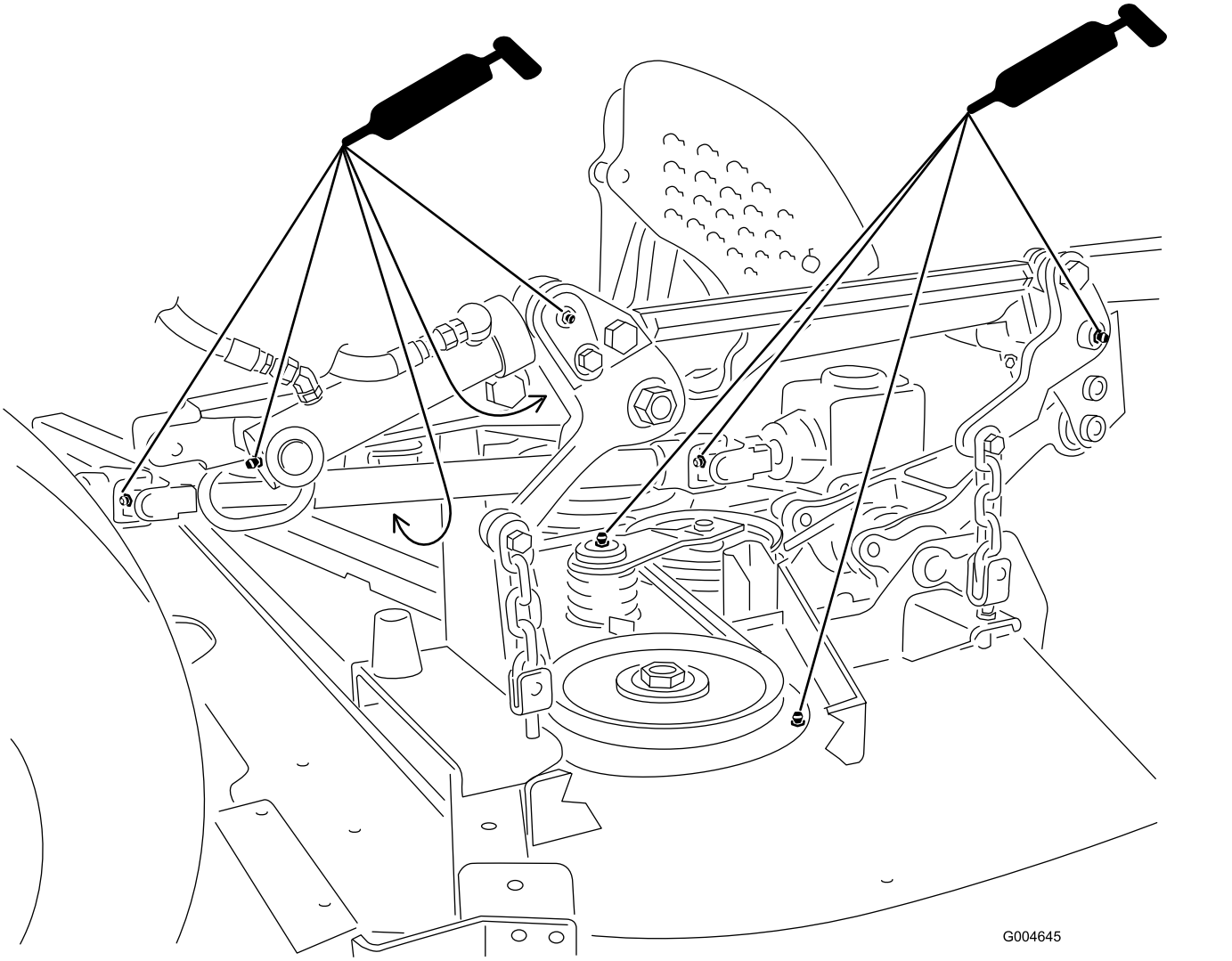
Greasing the Bearings and Bushings

Service Interval: Every 50 hours

The machine has grease fittings that must be lubricated regularly with No. 2 lithium grease. Bearings and bushings must be lubricated daily when operating conditions are extremely dusty and dirty.

Dusty and dirty operating conditions could cause dirt to get into the bearings and bushings, resulting in accelerated wear. Lubricate the grease fittings immediately after every washing, regardless of interval specified.

1. Wipe the grease fittings clean so foreign matter cannot be forced into the bearing or bushing.
2. Pump grease into the fittings.
3. Wipe off excess grease.



g004645

Figure 18

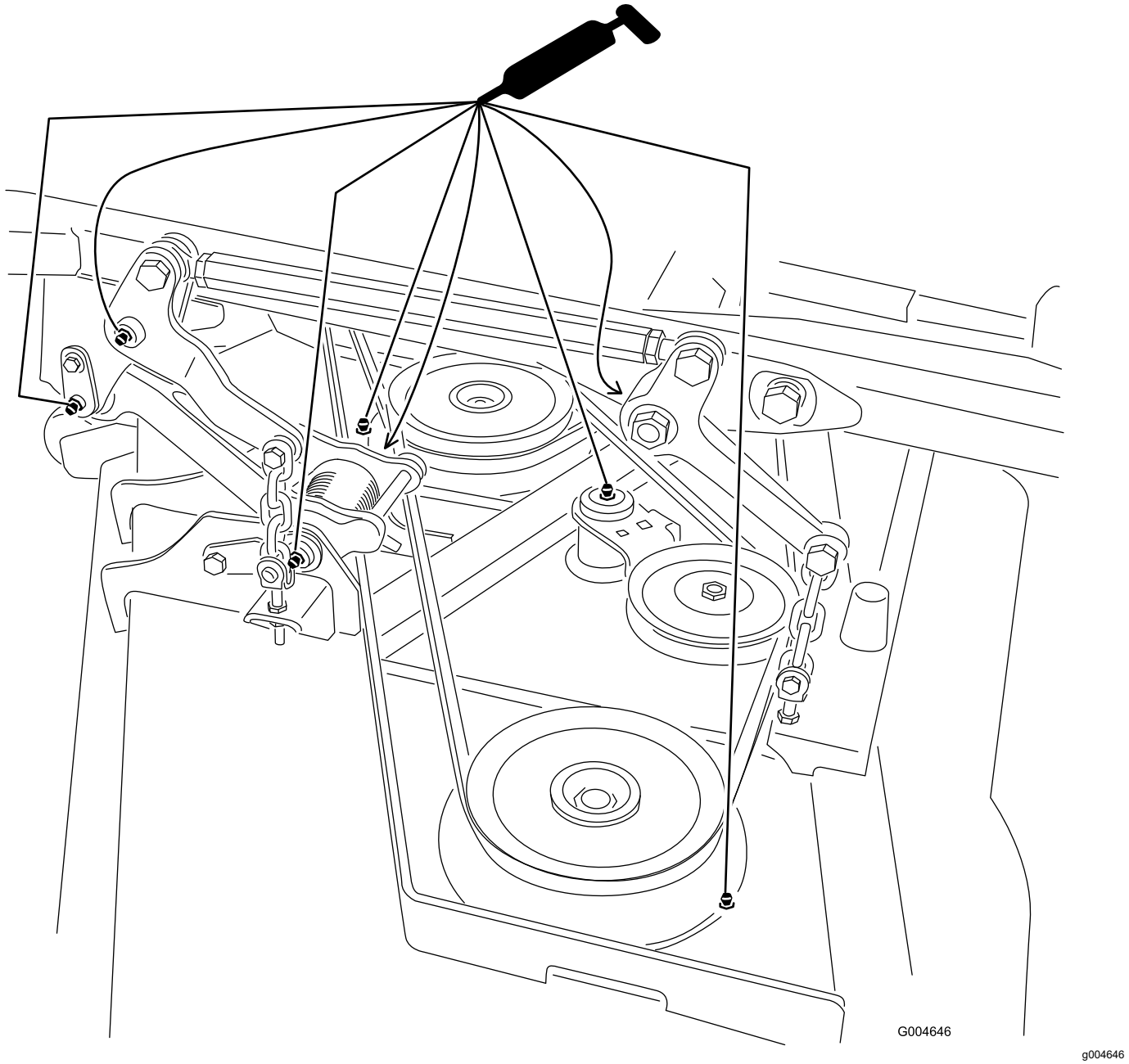


Figure 19

Note: Bearing life can be negatively affected by improper wash down procedures. Do not wash the unit when it is still hot and avoid directing high-pressure or high volume spray at the bearings or seals.

Replacing the Blade Drive Belts

Service Interval: After the first 50 hours

The blade drive belts, tensioned by the spring loaded idler pulleys, are very durable. However, after many hours of use, the belts will show signs of wear. Signs of a worn belt include squealing when the belt is rotating, blades slipping when cutting grass, poor quality of cut, frayed edges, and burn marks and cracks. Replace the belts if any of these conditions are evident.

1. Lower the cutting unit to the 1 inch height of cut setting, move the throttle lever to the SLOW position, shut off the engine, engage the parking brake, and remove the key.
2. Remove the belt covers from the top of the cutting unit and set the covers aside.
3. Using a breaker bar or similar tool, move the idler pulley for the top belt (Figure 20) away from the top drive belt to release the belt tension and allow the belt to be slipped off the pulleys.

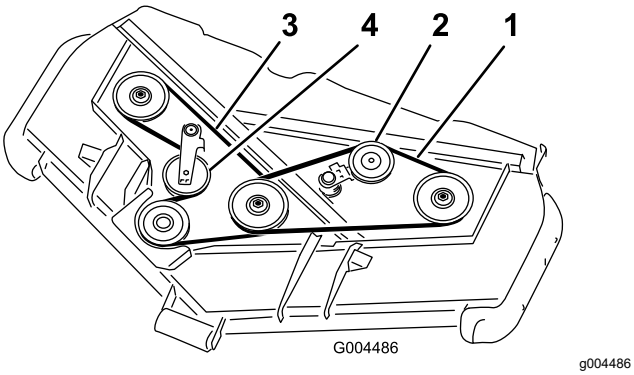


Figure 20

1. Top belt
2. Top idler pulley
3. Bottom belt
4. Bottom idler pulley

4. Route a new belt around the gearbox pulley, bottom spindle pulleys, and idler pulley assembly as shown in Figure 20.
5. Route a new belt around the top spindle pulleys and idler pulley assembly as shown in Figure 20.
6. Grease all mower and cutting unit drive grease points.
7. Install the belt covers.

Servicing the Cutting Blades

Maintain sharp blades throughout the cutting season because sharp blades cut cleanly without tearing or shredding the grass blades. Tearing and shredding turns grass brown at the edges, which slows growth and increases the chance of disease.

Check the blades daily for sharpness, and for any wear or damage. Sharpen the blades as necessary. If a blade is damaged or worn, replace it immediately with a genuine Toro replacement blade.

Blade Safety

A worn or damaged blade can break, and a piece of the blade could be thrown toward you or bystanders, resulting in serious personal injury or death.

- Inspect the blade periodically for wear or damage.
- Use care when checking the blades. Wrap the blades or wear gloves, and use caution when servicing the blades. Only replace or sharpen the blades; never straighten or weld them.
- On multi-bladed machines, take care as rotating 1 blade can cause other blades to rotate.

Inspecting the Blades

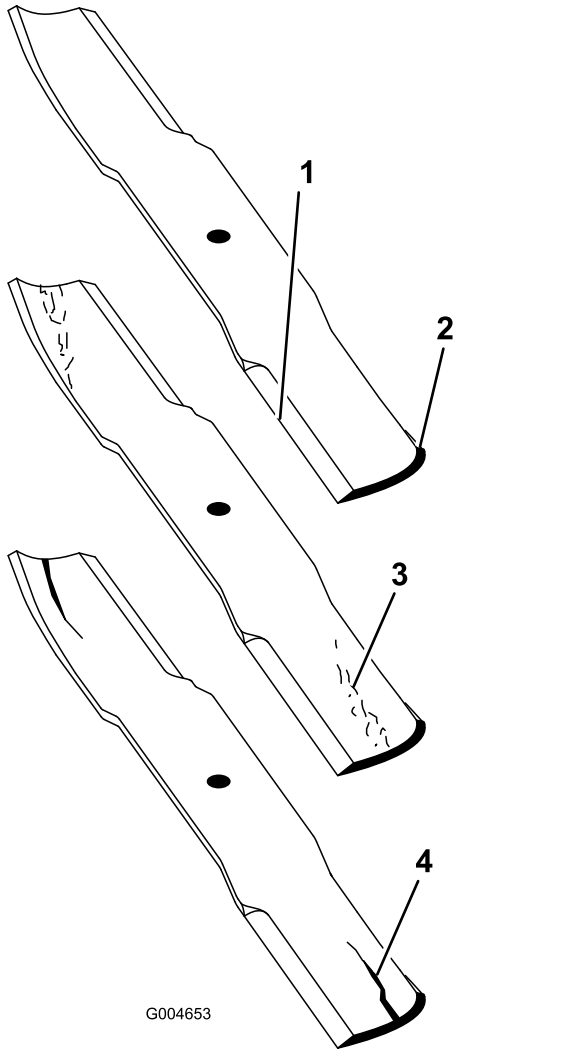
Service Interval: Before each use or daily

1. Disengage the PTO, release the traction pedal, and engage the parking brake.
2. Move the throttle lever to the SLOW position, shut off the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
3. Inspect the cutting edges (Figure 21). If the edges are not sharp or have nicks, remove and sharpen the blades. Refer to Sharpening the Blades (Sharpening the Blades (page 19)).
4. Inspect the blades, especially the sail area (Figure 21). If you notice any damage, wear, or a slot forming in this area (Figure 21), immediately install a new blade.

⚠ DANGER

If you allow the blade to wear, a slot will form between the sail and flat part of the blade. Eventually a piece of the blade may break off and be thrown from under the housing, possibly resulting in serious injury to you or bystanders.

- **Inspect the blade periodically for wear or damage.**
- **Never try to straighten a blade that is bent or weld a broken or cracked blade.**
- **Replace a worn or damaged blade.**



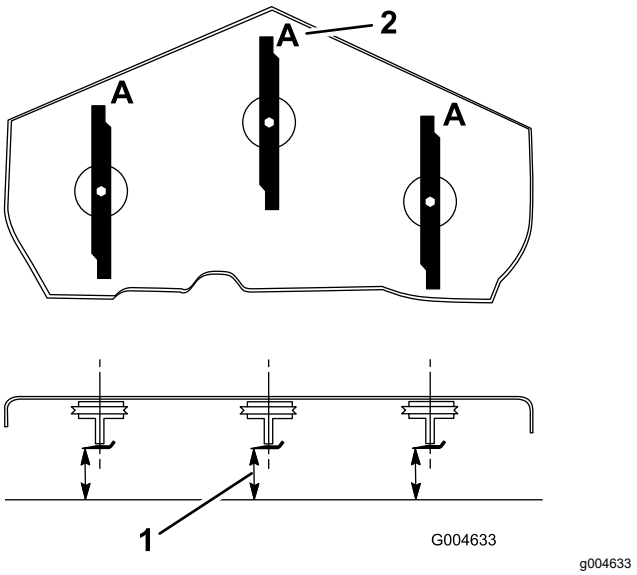
g004653

Figure 21

1. Cutting edge
2. Sail area
3. Wear/slot forming
4. Crack

Checking for Bent Blades

1. Disengage the PTO, release the traction pedal, and engage the parking brake.
2. Move the throttle lever to the SLOW position, shut off the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
3. Rotate the blades until the ends face forward and backward (Figure 22). Measure from a level surface to the cutting edge, position **A**, of the blades (Figure 22). Note this dimension.



g004633

Figure 22

1. Measure here from blade to hard surface
2. Position A

4. Rotate the opposite ends of the blades forward.
5. Measure from a level surface to the cutting edge of the blades at the same position as in step 3 above. The difference between the dimensions obtained in steps 3 and 4 must not exceed 3 mm (1/8 inch). If this dimension exceeds 3 mm (1/8 inch), the blade is bent and must be replaced; refer to Removing the Blades (page 18) and Installing the Blades (page 19).

⚠ WARNING

A blade that is bent or damaged could break apart and could seriously injure or kill you or bystanders.

- **Always replace bent or damaged blade with a new blade.**
- **Never file or create sharp notches in the edges or surfaces of blade.**

Removing the Blades

Blades must be replaced if a solid object is hit, if the blade is out of balance or is bent. To ensure optimum performance and continued safety conformance of the machine, use genuine Toro replacement blades. Replacement blades made by other manufacturers may result in non-conformance with safety standards.

⚠ WARNING

Contact with a sharp blade can cause serious injury.

Wear gloves or wrap sharp edges of the blade with a rag.

1. Disengage the PTO, release the traction pedal, and engage the parking brake.
2. Move the throttle lever to the SLOW position, shut off the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
3. Hold the blade end using a rag or thickly-padded glove.
4. Remove the blade bolt, anti-scalp plate, and blade from the spindle shaft; refer to Figure 25 in Installing the Blades (page 19).

Sharpening the Blades

⚠ WARNING

When sharpening blade, pieces of blade could be thrown and cause serious injury.

Wear proper eye protection when sharpening blades.

1. Sharpen the cutting edge at both ends of the blade (Figure 23). Maintain the original angle. The blade retains its balance if the same amount of material is removed from both cutting edges.

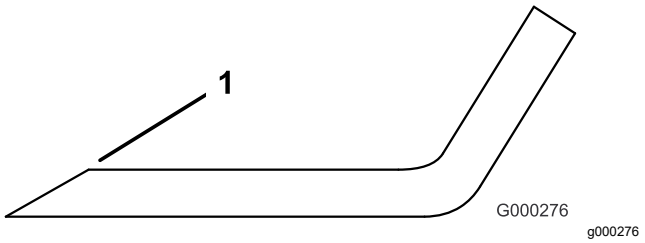


Figure 23

1. Sharpen at original angle

2. Check the balance of the blade by putting it on a blade balancer (Figure 24). If the blade stays in a horizontal position, the blade is balanced and can be used. If the blade is not balanced, file some metal off the end of the sail area only (Figure 25). Repeat this procedure until the blade is balanced.

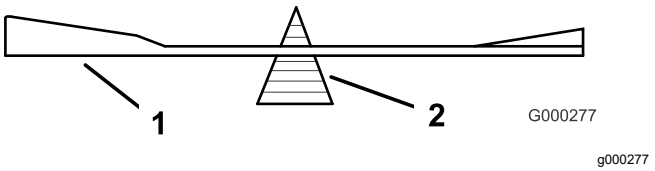


Figure 24

1. Blade
2. Balancer

Installing the Blades

1. Install the blade onto the spindle shaft (Figure 25).

   Important: **The curved part of the blade must point upward toward the inside of the cutting unit to ensure proper cutting.**

2. Install the anti-scalp plate and blade bolt (Figure 25).

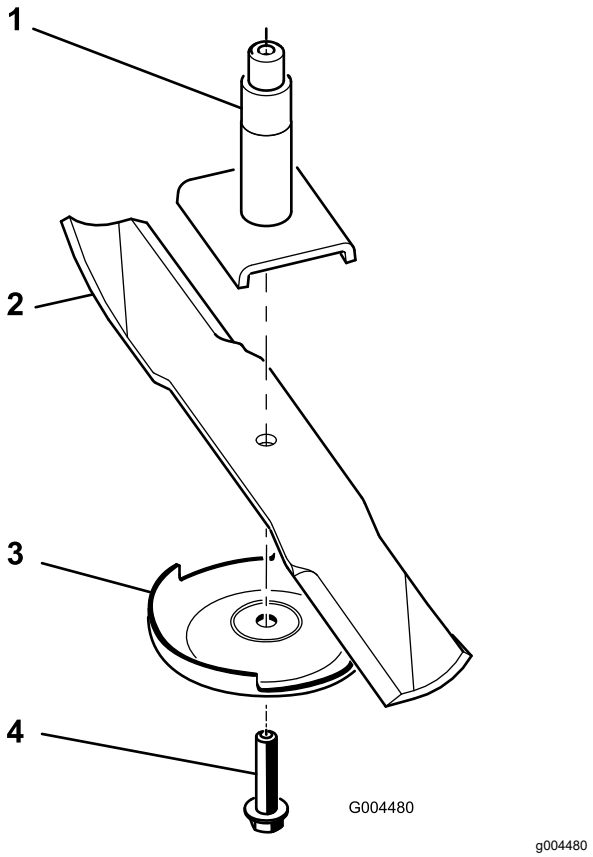


Figure 25

1. Spindle
2. Sail area of blade
3. Anti-scalp plate
4. Blade bolt

3. Torque the blade bolt to 115-150 N·m (85-110 ft-lb).

Correcting Cutting Unit Mismatch

If the cut is uneven across the cutting unit swath, correct it as follows:

1. Position the machine on a level surface.
2. Set the cutting unit to the desired height of cut, move the throttle lever to the SLOW position, shut off the engine, engage the parking brake, and remove the key.
3. Check and adjust front and rear traction-unit tire pressure; refer to the traction unit *Operator's Manual*.
4. Check for bent blades.

5. Remove the covers from the top of the cutting units.
6. Rotate the blade on each spindle until the ends face forward and backward.
7. Measure from the floor to the front tip of the cutting edge.
8. Adjust the jam nuts securing the cutting unit yokes/chains to the mower until the cutting unit is level (Figure 26).

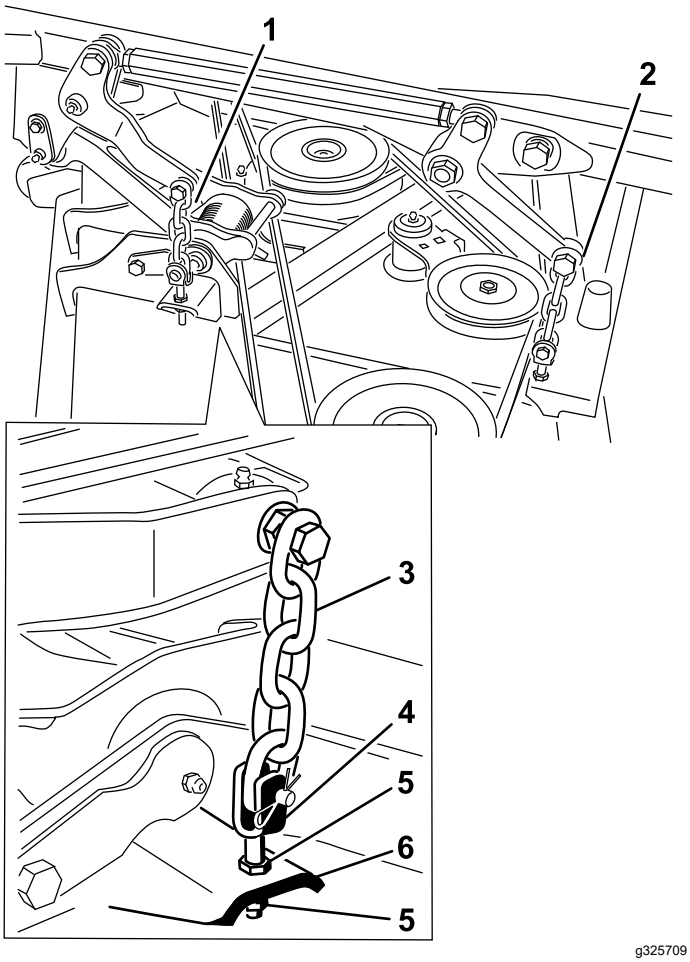


Figure 26

1. Front-mower yoke chain
2. Rear-mower yoke chain
3. Chain
4. Yoke
5. Jam nut
6. Mower

Replacing the Grass Deflector

⚠ WARNING

An uncovered discharge opening allows the machine to throw objects toward you or bystanders, which can result in serious injury. Contact with the blade can also occur.

- **Never operate the machine without a mulch kit or grass deflector installed.**
- **Ensure that the grass deflector is lowered.**

1. Lower the cutting unit to the ground, move the throttle lever to the SLOW position, shut off the engine, engage the parking brake, and remove the key.
2. Remove the locknut, bolt, spring and spacer holding the deflector to the pivot brackets (Figure 27). Remove damaged or worn grass deflector.

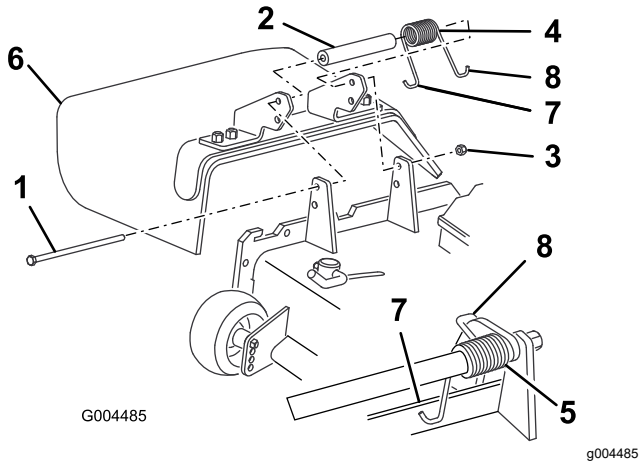


Figure 27

1. Bolt
2. Spacer
3. Locknut
4. Spring
5. Spring installed
6. Grass deflector
7. Left-hand hook end of spring, place behind the cutting unit edge before installing bolt
8. Right-hand hook end of spring

3. Place the spacer and spring between the replacement grass deflector brackets (Figure 27). Place the left hand J hook end of the spring behind the cutting unit edge.

   Note: Ensure that the left-hand hook end of the spring is installed behind the cutting unit edge before installing the bolt as shown in Figure 27.
4. Install the bolt and nut. Place the right-hand hook end of the spring around the grass deflector (Figure 27).

   Important: **The grass deflector must be able to lower down into position. Lift the deflector**

up to test that it lowers into the full down position.

Cleaning Under the Cutting Unit

Service Interval: Before each use or daily

Remove the grass buildup under the cutting unit daily.

1. Disengage the PTO, release the traction pedal to the neutral position, and engage the parking brake.
2. Move the throttle lever to the SLOW position, shut off the engine, remove the key, and wait for all moving parts to stop before leaving the operator's position.
3. Raise the cutting unit to the TRANSPORT position.
4. Use a jack to raise the front of the machine and support it with jack stands.
5. Thoroughly clean the underside of the cutting unit with water.

Storage

1. Disengage the PTO, release the traction pedal to the neutral position, and engage the parking brake.
2. Move the throttle lever to the SLOW position, shut off the engine, remove the key, and wait for all moving parts to stop before leaving the operator's position.
3. Allow the engine to cool before adjusting, cleaning, storing, or repairing the machine.
4. Thoroughly clean the cutting unit, paying special attention to these areas:
   - Underneath the cutting unit
   - Under the cutting unit belt covers
   - PTO shaft assembly
   - All grease fittings and pivot points
5. Check and adjust the traction-unit front and rear tire pressure; refer to the traction-unit *Operator's Manual*.
6. Remove, sharpen, and balance the cutting unit blades. Install the blades and torque the blade fasteners to 85 to 110 ft-lb (115 to 149 N·m).
7. Check all fasteners for looseness and tighten them as necessary.
8. Grease or oil all grease fittings and pivot points. Wipe off any excess lubricant.
9. Lightly sand and use touch up paint on painted areas that are scratched, chipped or rusted. Repair any dents.

Notes:

Notes:

Notes:

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
30353	403373001 and Up	72in Rotary Mower	GM7200/GM360 72in BASE DECK	72in Rotary Mower	2006/42/EC, 2000/14/EC
30456	403373001 and Up	60in Side Discharge Mower	GM7200 60in SD DECK	60in Rotary Mower	2006/42/EC, 2000/14/EC
30457	403373001 and Up	62in Rotary Mower	GM7200 62in BASE DECK	62in Rotary Mower	2006/42/EC, 2000/14/EC
30481	403373001 and Up	72in Side Discharge Mower	72in S.D. DECK (NON) C.E.	72in Rotary Mower	2006/42/EC, 2000/14/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:

Tom Langworthy
Engineering Director
8111 Lyndale Ave. South
Bloomington, MN 55420, USA
September 15, 2022

Authorized Representative:

Marcel Dutrieux
Manager European Product Integrity
Toro Europe NV
Nijverheidsstraat 5
2260 Oevel
Belgium

UK 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	Regulation
30353	403373001 and Up	72in Rotary Mower	GM7200/GM360 72in BASE DECK	72in Rotary Mower	S.I. 2008 No. 1597 (Machinery Safety), S.I. 2001 No. 1701 (Noise)
30456	403373001 and Up	60in Side Discharge Mower	GM7200 60in SD DECK	60in Rotary Mower	S.I. 2008 No. 1597 (Machinery Safety), S.I. 2001 No. 1701 (Noise)
30457	403373001 and Up	62in Rotary Mower	GM7200 62in BASE DECK	62in Rotary Mower	S.I. 2008 No. 1597 (Machinery Safety), S.I. 2001 No. 1701 (Noise)
30481	403373001 and Up	72in Side Discharge Mower	72in S.D. DECK (NON) C.E.	72in Rotary Mower	S.I. 2008 No. 1597 (Machinery Safety), S.I. 2001 No. 1701 (Noise)

Relevant technical documentation has been compiled as required per Schedule 10 of S.I. 2008 No. 1597.

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.

This declaration has been issued under the sole responsibility of the manufacturer.
The object of the declaration is in conformity with relevant UK legislation.

Tom Langworthy
Engineering Director
8111 Lyndale Ave. South
Bloomington, MN 55420, USA
September 15, 2022

Authorized Representative:

Marcel Dutrieux
Manager European Product Integrity
Toro U.K. Limited
Spellbrook Lane West
Bishop's Stortford
CM23 4BU
United Kingdom

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.

The Toro Warranty

Two-Year or 1,500 Hours Limited Warranty

Conditions and Products Covered

The Toro Company warrants your Toro Commercial product (“Product”) to be free from defects in materials or workmanship for 2 years or 1,500 operational hours*, whichever occurs first. This warranty is applicable to all products with the exception of Aerators (refer to separate warranty statements for these products). Where a warrantable condition exists, we will repair the Product at no cost to you including diagnostics, labor, parts, and transportation. This warranty begins on the date the Product is delivered to the original retail purchaser.
* Product equipped with an hour meter.

Instructions for Obtaining Warranty Service

You are responsible for notifying the Commercial Products Distributor or Authorized Commercial Products Dealer from whom you purchased the Product as soon as you believe a warrantable condition exists. If you need help locating a Commercial Products Distributor or Authorized Dealer, or if you have questions regarding your warranty rights or responsibilities, you may contact us at:

Toro Commercial Products Service Department
8111 Lyndale Avenue South
Bloomington, MN 55420-1196

952–888–8801 or 800–952–2740
E-mail: commercial.warranty@toro.com

Owner Responsibilities

As the product owner, you are responsible for required maintenance and adjustments stated in your *Operator's Manual*. Repairs for product issues caused by failure to perform required maintenance and adjustments are not covered under this warranty.

Items and Conditions Not Covered

Not all product failures or malfunctions that occur during the warranty period are defects in materials or workmanship. This 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, or modified non-Toro branded accessories and products.
- Product failures which result from failure to perform recommended maintenance and/or adjustments.
- Product failures which result from operating the Product in an abusive, negligent, or reckless manner.
- Parts consumed through use that are not defective. Examples of parts which are consumed, or used up, during normal Product operation include, but are not limited to, brake pads and linings, clutch linings, blades, reels, rollers and bearings (sealed or greasable), bed knives, spark plugs, castor wheels and bearings, tires, filters, belts, and certain sprayer components such as diaphragms, nozzles, flow meters, and check valves.
- Failures caused by outside influence, including, but not limited to, weather, storage practices, contamination, use of unapproved fuels, coolants, lubricants, additives, fertilizers, water, or chemicals.
- Failure or performance issues due to the use of fuels (e.g. gasoline, diesel, or biodiesel) that do not conform to their respective industry standards.
- Normal noise, vibration, wear and tear, and deterioration. Normal “wear and tear” includes, but is not limited to, damage to seats due to wear or abrasion, worn painted surfaces, scratched decals or windows.

Parts

Parts scheduled for replacement as required maintenance are warranted for the period of time up to the scheduled replacement time for that part. Parts replaced under this warranty are covered for the duration of the original product warranty and become the property of Toro. Toro will make the final decision whether to repair any existing part or assembly or replace it. Toro may use remanufactured parts for warranty repairs.

Deep Cycle and Lithium-Ion Battery Warranty

Deep cycle and Lithium-Ion batteries have a specified total number of kilowatt-hours they can deliver during their lifetime. Operating, recharging, and maintenance techniques can extend or reduce total battery life. As the batteries in this product are consumed, the amount of useful work between charging intervals will slowly decrease until the battery is completely worn out. Replacement of worn out batteries, due to normal consumption, is the responsibility of the product owner.
Note: (Lithium-Ion battery only): Refer to the battery warranty for additional information.

Lifetime Crankshaft Warranty (ProStripe 02657 Model Only)

The Prostripe which is fitted with a genuine Toro Friction Disc and Crank-Safe Blade Brake Clutch (integrated Blade Brake Clutch (BBC) + Friction Disc assembly) as original equipment and used by the original purchaser in accordance with recommended operating and maintenance procedures, are covered by a Lifetime Warranty against engine crankshaft bending. Machines fitted with friction washers, Blade Brake Clutch (BBC) units and other such devices are not covered by the Lifetime Crankshaft Warranty.

Maintenance is at Owner’s Expense

Engine tune-up, lubrication, cleaning and polishing, replacement of filters, coolant, and completing recommended maintenance are some of the normal services Toro products require that are at the owner’s expense.

General Conditions

Repair by an Authorized Toro Distributor or Dealer is your sole remedy under this warranty.

The Toro Company is not 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. Except for the Emissions warranty referenced below, if applicable, there is no other express 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.

Note Regarding Emissions 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) and/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 Engine Emission Control Warranty Statement supplied with your product or contained in the engine manufacturer’s documentation.

Countries Other than the United States or Canada

Customers who have purchased Toro products exported from 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 your Authorized Toro Service Center.