



Count on it.

Operator's Manual

Right/Left-Hand Groomer Kit Reelmaster® 3550 Series 18-inch Cutting Unit

Model No. 03914

Model No. 03915



⚠ 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.

Covered by one or more of the following patents: U.S. Patent 7,337,601

Introduction

The groomer kits are mounted to the reel mowers on a ride-on machine and is intended to be used by professional, hired operators in commercial applications. It is primarily designed for grooming 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.

You may contact Toro directly at www.Toro.com for product and accessory information, help finding a dealer, or to register your product.

Whenever you need service, genuine Toro parts, or additional information, contact an Authorized Service Dealer or Toro Customer Service and have the model and serial numbers of your product ready. The numbers are printed on the shipping carton. Write the numbers in the space provided.

Model No. _____

Serial No. _____

This manual identifies potential hazards and has safety messages identified by the safety alert symbol (Figure 1), which signals a hazard that may cause serious injury or death if you do not follow the recommended precautions.



Figure 1

1. Safety alert symbol

This manual uses 2 words to highlight information.

Important calls attention to special mechanical information and **Note** emphasizes general information worthy of special attention.

Contents

Safety	3
Safe Operating Practices.....	3
Setup	4
Preparing for Setup.....	4
Installing the Groomer.....	4
Adjusting the Hydraulic Hoses	9
Installing the Broomer Kit (optional).....	9
Operation	10
Adjusting the Groomer Height.....	11
Testing the Groomer Performance.....	12
Maintenance	13
Cleaning the Groomer	13
Lubricating the Groomer.....	13
Inspecting the Blades	13
Aligning the Groomer Pulley/Belt	13
Groomer Binding Troubleshooting.....	14

Safety

Safe Operating Practices

- Read, understand, and follow all instructions in the traction unit and cutting unit operator manuals before operating the groomer.
- Read, understand, and follow all instructions in this operator's manual before operating the groomer.
- Never allow children to operate the cutting units. Do not allow adults to operate the traction unit or cutting units without proper instruction. Only trained operators who have read this manual should operate the cutting units.
- Never operate the cutting units when under the influence of drugs or alcohol.
- Keep all shields and safety devices in place. If a shield, safety device, or decal is illegible or damaged, repair or replace it before operation is commenced. Also tighten any loose nuts, bolts, and screws to ensure that the cutting unit is in safe operating condition.
- Always wear substantial shoes. Do not operate the cutting unit while wearing sandals, tennis shoes, sneakers, or shorts. Also, do not wear loose-fitting clothing which could get caught in moving parts. Always wear long pants and substantial shoes. Wearing safety glasses, safety shoes, and a helmet is advisable, and required by some local ordinances and insurance regulations.
- Remove all debris or other objects that might be picked up and thrown by the cutting-unit blades. Keep all bystanders away from the mowing area.
- If the blades strike a solid object or the cutting unit vibrates abnormally, stop and shut the engine off. Check cutting unit for damaged parts. Repair any damage before restarting and operating the cutting unit.
- Lower the cutting units to the ground and remove the key from the ignition switch whenever the machine is left unattended.
- Be sure that the cutting units and groomers are in safe operating condition by keeping nuts, bolts, and screws tight.
- Remove the key from the ignition switch to prevent accidental starting of the engine when servicing, adjusting, or storing the machine.
- 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.
- Perform only those maintenance instructions described in this manual. If major repairs are ever needed or assistance is desired, contact an Authorized Toro Distributor.
- To ensure optimum performance and safety, always purchase genuine Toro replacement parts and accessories to keep the Toro all Toro. **Never use "will-fit"**

replacement parts and accessories made by other manufacturers. Look for the Toro logo to assure genuineness. Using unapproved replacement parts and accessories could void the warranty of The Toro® Company.

Setup

Loose Parts

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

Description	Qty.	Use
Height-of-cut bracket assembly, right-hand	1	Install the Groomer.
Height-of-cut bracket assembly, left-hand	1	
Flange locknut, 3/8 inch	2	
Splined drive insert	1	
Splined insert	1	
Groomer shaft assembly	1	
Shim washer (as required for belt alignment)	1	
Socket-head screw, 3/8 x 1 inch	4	
Drive pulley	1	
Square key	1	
Flange-head bolt (3/8 x 3/4 inch)	3	
Groomer belt	1	
Idler spring	1	
No parts required	—	Adjust the hydraulic hoses.
No parts required	—	Install the broomer kit (optional).

Traction Unit Requirements

These kits can be used on Reelmaster 3550 18-inch DPA Cutting Unit (Models 03911 and 03912).

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

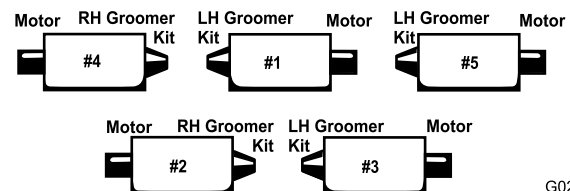
Preparing for Setup

Ensure that you have the following tools available before installing the groomer:

- 5/16 inch socket
- 7/16 inch socket
- 1/2 inch deep-well socket
- 9/16 inch deep-well socket
- 1/2 inch wrench
- 9/16 inch wrench (2)
- 5/16 inch Allen wrench
- Needle-nose pliers
- 6 inch ruler, Toro part 114-5446
- Flat screwdriver
- Locking pliers
- Torque wrench—20 to 26 N-m (15 to 19 ft-lb)
- Torque wrench—37 to 45 N-m (27 to 33 ft-lb)
- Torque wrench—46 to 54 N-m (34 to 40 ft-lb)
- Torque wrench—115 to 128 N-m (85 to 95 ft-lb)
- Reel drive shaft tool, part TOR4112

- Blue 242 Loctite
- Anti-seize compound

All cutting units are shipped with the counter weight mounted to the left end of the cutting unit. Use the following diagram to determine the position of the groomer kits and reel motors.



G020212

Figure 2

Note: These instructions and illustrations show the installation of the Left-Hand Groomer Kit onto the cutting units with the counter weights mounted on the left end of the cutting unit. Install the Right-Hand Groomer Kits onto the cutting units with the counter weights mounted on the right end of the cutting unit.

Note: If you want to install a groomer and a brush, obtain the appropriate Groomer and Brush Kit from your Authorized Toro Distributor.

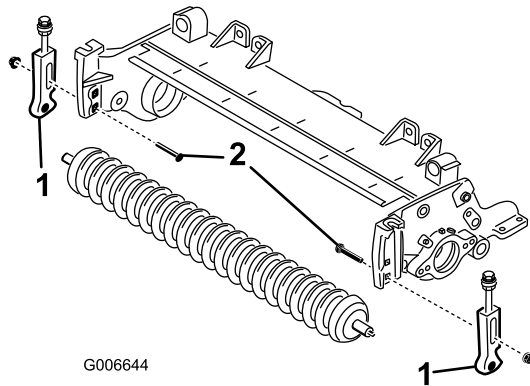
Installing the Groomer

1. Park the machine on a level surface and engage the parking brake.
2. Ensure that the cutting units are disengaged. Lower the cutting units to the ground. Turn the engine off

and remove the key. Remove all the cutting units from the machine.

Note: Make sure that all the black plastic tie straps have been removed from the groomer assemblies.

3. Remove the carriage bolts and nuts securing the height-of-cut brackets to the cutting-unit side plates (Figure 3).

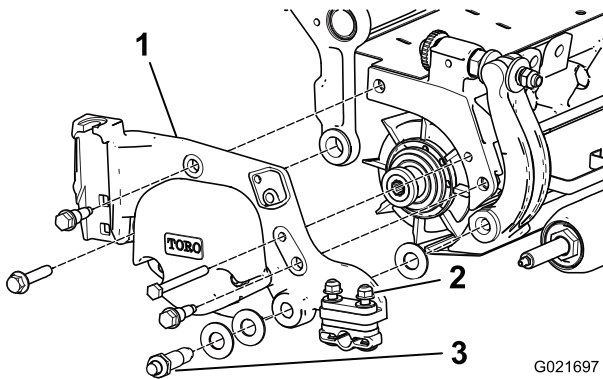


G006644

Figure 3

1. Height-of-cut bracket
2. Carriage bolt

4. Loosen the screws securing the height-of-cut brackets to the front roller shaft.
5. Remove the height-of-cut brackets and the front roller from the cutting-unit side plates (Figure 3).
6. Remove the 4 bolts securing the left side plate to the cutting unit and loosen the rear roller clamp nuts; pull the side plate off of the cutting unit (Figure 4).

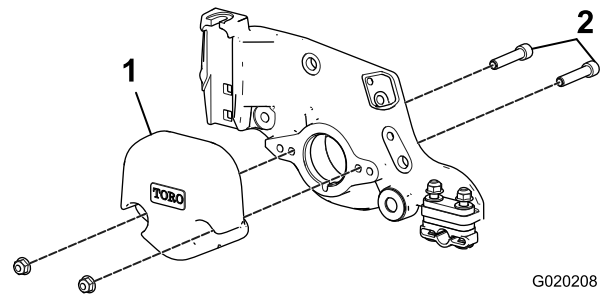


G021697

Figure 4

1. Side plate
2. Rear roller clamp nut
3. Bed-bar bolt/nut

7. Remove the 2 nuts and bolts securing the counter weight to the side plate. Remove the counter weight and bolts from the side plate (Figure 5).



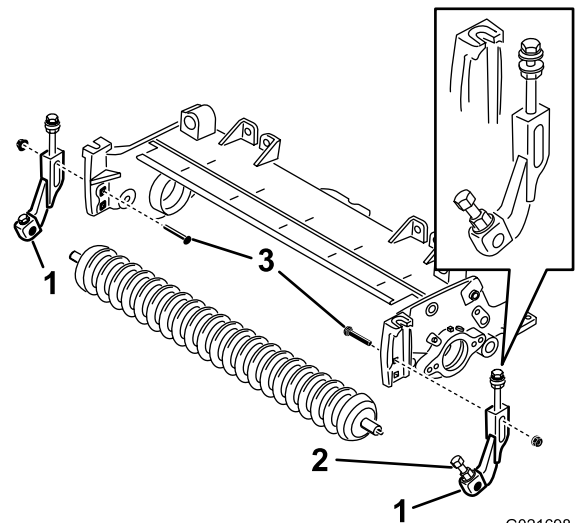
G020208

Figure 5

1. Counter weight
2. Bolts

8. Remove the reel from the cutting unit to access the inside of the right side plate.
9. Remove the two bolts from the inside of the right side plate as you did on the left.
10. Install the reel into the cutting unit and secure it with the left side plate and 4 bolts removed previously.
11. Loosely install the new right and left height-of-cut brackets to the existing front roller with new 5/16 x 1-1/8 inch bolts and 5/16 inch flange-head locknuts. Position the height-of-cut brackets as shown in Figure 6.

Note: The left height-of-cut bracket is marked with an "L" and the right height-of-cut bracket is marked with an "R".



G021698

Figure 6

1. Height-of-cut bracket
2. Bolt and locknut
3. Carriage bolt

12. Using the upper square hole in each side plate, loosely mount the height-of-cut brackets to the cutting-unit side plates with the carriage bolts previously removed and (2) new 3/8 inch flange nuts, positioning them as shown in Figure 6.

Note: The washers on the height-of-cut adjusting bolts must be located on each side of the flange on the side plate (Figure 7).

13. Tighten the locknut on the height-of-cut adjuster bolt until the washers contact the side plate flange, then back off the nut 1/2 turn (Figure 7).

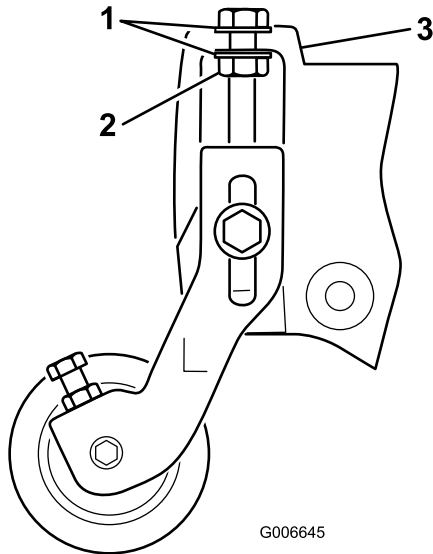


Figure 7

- | | |
|------------|----------------------|
| 1. Washer | 3. Side plate flange |
| 2. Locknut | |

14. Center the roller between the height-of-cut brackets and lock it in place with the bolts and locknuts on the brackets (Figure 6).
15. Using the reel drive shaft tool, remove the splined insert from the reel motor side of the reel shaft (Figure 8).

Important: The splined insert on the left-hand side of the cutting unit has left-hand threads. The splined insert on the right-hand side of the cutting unit has right-hand threads.

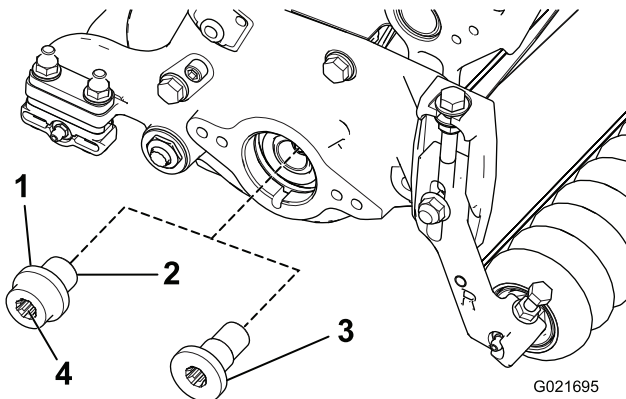


Figure 8

Reel motor side

- | | |
|--------------------------------|--------------------------|
| 1. New (longer) splined insert | 3. Old splined insert |
| 2. Add 242 Loctite (Blue) | 4. Fill with grease here |

16. Install the new (longer) splined drive insert to the reel shaft (Figure 8). Apply 242 Loctite (Blue) to the threads of the insert prior to installation. Torque it to 115 to 128 N-m (85 to 95 ft-lb).
17. Fill the end of the insert with all-purpose grease (Figure 8).
18. Using the reel drive shaft tool, remove the splined insert from the groomer drive side of the reel shaft (Figure 9).

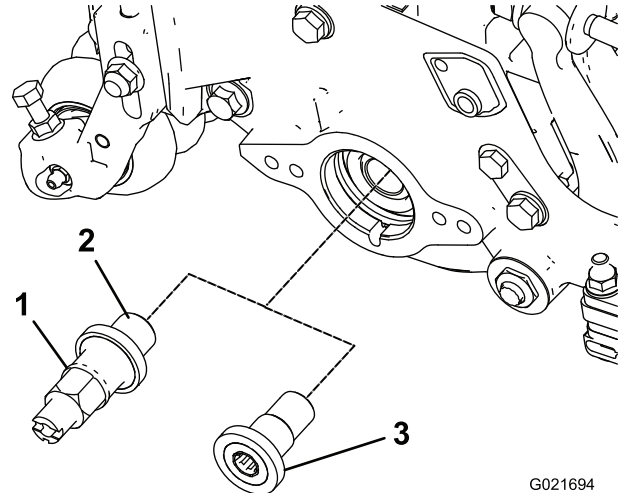
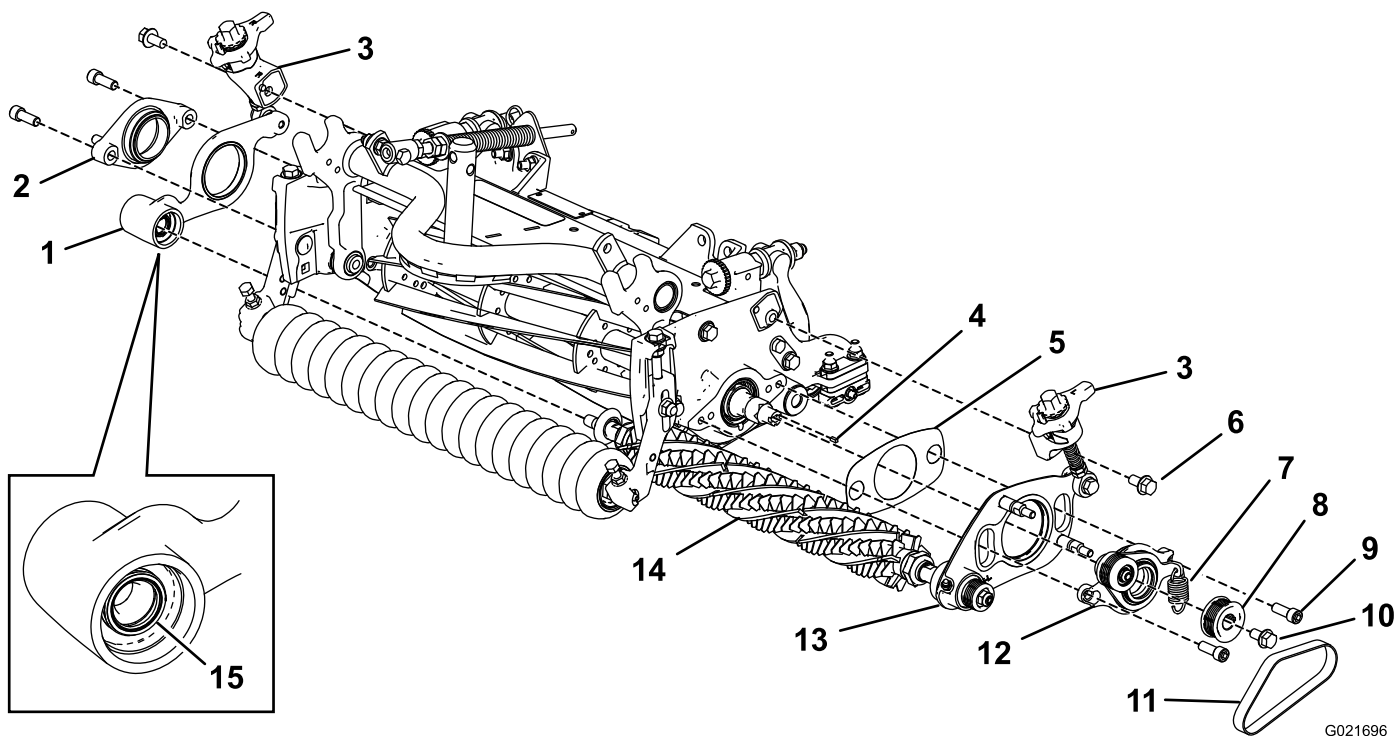


Figure 9

Groomer drive side

- | | |
|--------------------------------------|---------------------------------|
| 1. New (longer) splined drive insert | 3. Old (shorter) splined insert |
| 2. Add 242 Loctite (Blue) here | |
19. Install the new (longer) splined drive insert to the reel shaft (Figure 8). Apply 242 Loctite (Blue) to the threads of the insert prior to installation. Torque it to 115 to 128 N-m (85 to 95 ft-lb).
 20. **On the non-drive side of the groomer assembly,** slide the groomer plate with quick-up lever off the groomer shaft assembly (Figure 10).



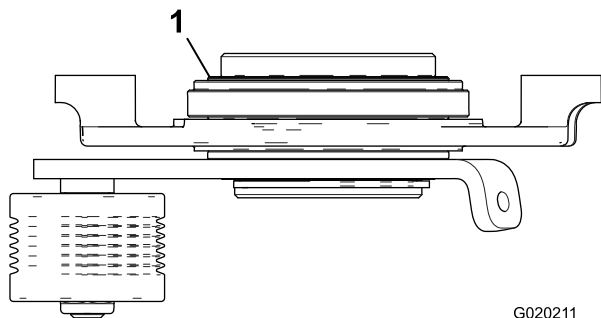
G021696

Figure 10

- | | |
|---|--|
| 1. Groomer plate w/quick-up lever (non-drive end) | 9. Socket-head screw |
| 2. Pivot hub (non-drive end) | 10. Flange-head bolt—long |
| 3. Quick-up lever | 11. Belt |
| 4. Square key | 12. Pivot hub (drive end) |
| 5. Shim (must remain loose after installation) | 13. Groomer plate w/quick-up lever (drive end) |
| 6. Flange-head bolt—short | 14. Groomer shaft assembly |
| 7. Idler spring | 15. Seal spring |
| 8. Drive pulley | |

21. **On the drive side of the cutting unit**, mount the pivot hub, the drive-side groomer plate with the quick-up lever, and the shim to the cutting-unit side plate with (2) socket-head screws (3/8 x 1 inch); refer to [Figure 10](#). Apply 242 Loctite (Blue) to the screw threads prior to installation.

Important: Make sure that the O-ring is properly positioned on the pivot hub ([Figure 11](#)).



G020211

Figure 11

1. O-ring

Important: Make sure that the pivot hub mounting surface is flush with the side plate on the cutting unit. The shim must not be pinched between the pivot hub and the side plate.

22. Install the non-drive groomer plate onto the groomer shaft ([Figure 10](#)). Be careful not to knock the seal spring off.
23. Secure the non-drive pivot hub to the cutting-unit side plate with 2 socket-head screws (3/8 x 1 inch); refer to [Figure 10](#). Apply 242 Loctite (Blue) to the screw threads prior to installation.
24. Make sure that the seal lip on each excluder seal is in light contact with each bearing housing ([Figure 12](#)).

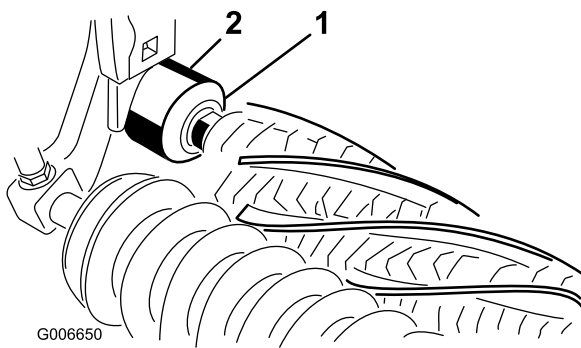


Figure 12

1. Idler pulley
2. Idler spring

25. Mount the quick-up lever assemblies to the side plates with 2 flange-head bolts (3/8 x 3/4 inch); refer to [Figure 10](#).
26. Apply anti-seize compound to the key slot of the drive pulley, insert the square key into the key slot, and slide the drive pulley and key onto the driveshaft ([Figure 10](#)).
27. Apply 242 Loctite (Blue) to the screw threads of a flange-head bolt (3/8 x 3/4 inch), thread it into the end of the driveshaft, and torque it to 37 to 45 N-m (27 to 33 ft-lb), securing the drive pulley ([Figure 10](#)).
28. Install the groomer belt onto the pulleys ([Figure 10](#)). Make sure that the ribs on the belt are properly seated in the grooves on each pulley.
29. Hook the idler spring around the groove on the groomer-plate lower stud, push up on the idler pulley, and hook the free spring end into the hole in the idler-plate tab ([Figure 13](#)). Ensure that you position the open end of the spring hook toward the drive pulley.

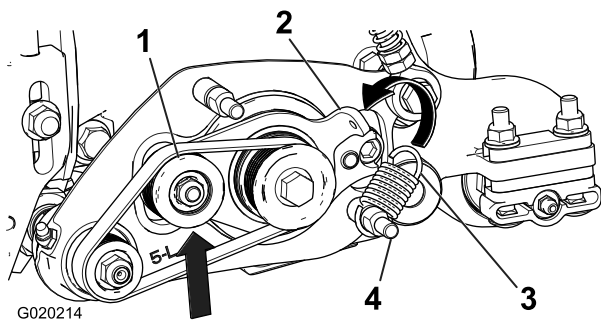


Figure 13

1. Idler pulley
2. Idler-plate tab
3. Idler spring
4. Lower stud

30. Check the alignment of the belt/pulleys as follows:
 - Lay a straightedge along the outer face of the **drive** pulley ([Figure 14](#)).

Important: Do not use the idler pulley to check alignment.

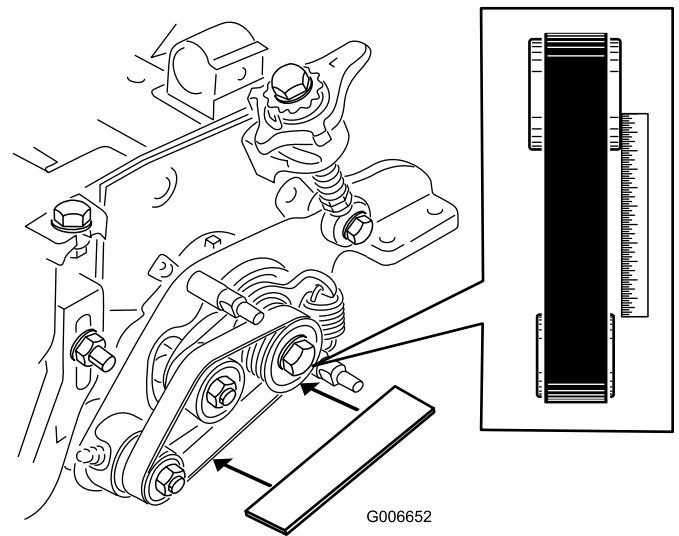


Figure 14

- The outer faces of the drive and driven pulleys should be in line within 0.76 mm (0.030 inch).
- If the pulleys are not aligned, refer to [Aligning the Groomer Pulley/Belt](#) (page 13).
- If the pulleys are aligned, continue with the installation.

Important: The belt may fail prematurely if the pulleys are not properly aligned.

31. Remove the access cover from the groomer cover assembly ([Figure 15](#)).
32. Install the groomer cover and secure it with (2) flange nuts (5/16 inch); refer to [Figure 15](#).

Important: Do not over-tighten the nuts, as damage to the cover may occur.

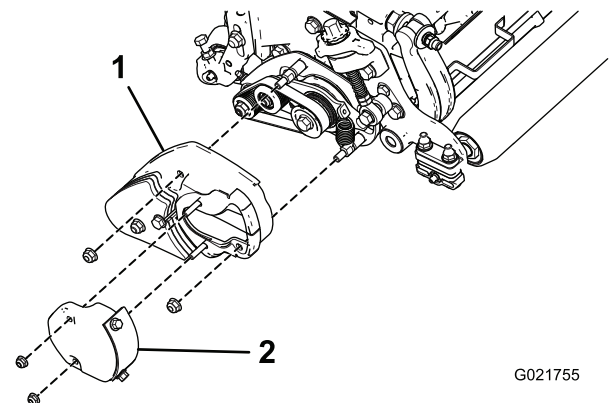


Figure 15

1. Groomer cover
2. Access cover

33. Install the access cover onto the groomer cover with the fasteners you removed previously ([Figure 15](#)).
34. Grease each of the groomer bearings (2 or 3 pumps maximum); refer to [Figure 16](#). Do not over-grease them, as excess grease may cause seal failure. Wipe off any excess grease.

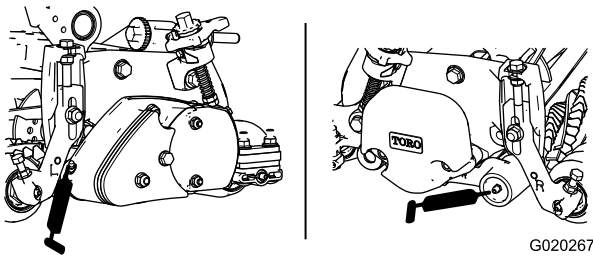


Figure 16

Note: After greasing the groomer bearings, operate the groomer for 30 seconds, stop the machine, and wipe excess grease from the groomer shaft and seals.

35. Adjust the height of the groomer. Refer to [Adjusting the Groomer Height](#) (page 11).

Adjusting the Hydraulic Hoses

After installing the groomers, the movement of the quick-up lever is obstructed by the rear hydraulic hose. Adjust the rear hoses for cutting units 2, 3, 4, and 5 ([Figure 2](#)) as follows:

1. Loosen the nut on the fitting that connects the rear hydraulic hose to the reel drive motor ([Figure 17](#)).

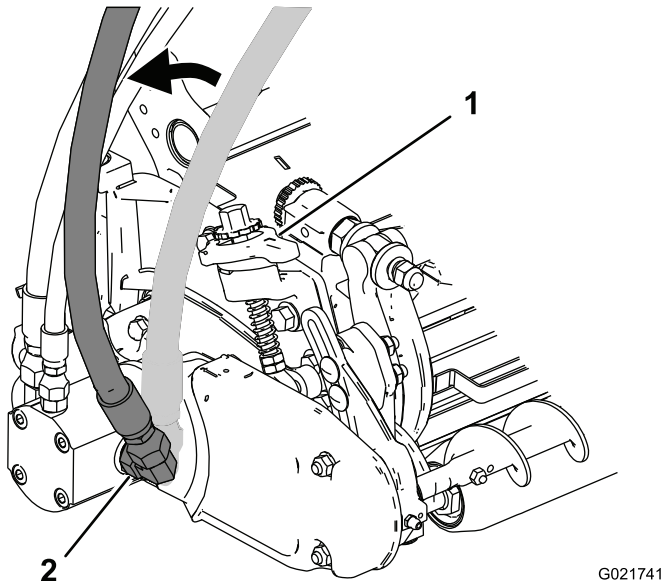


Figure 17

1. Quick-up lever
2. Nut

2. Rotate the hose away from the machine until it no longer obstructs the movement of the quick-up lever ([Figure 17](#)).
3. Tighten the nut until it is secure.

Installing the Broomer Kit (optional)

1. From one side of the groomer reel, slide a brush into each groove around the full length of the groomer reel ([Figure 18](#)).

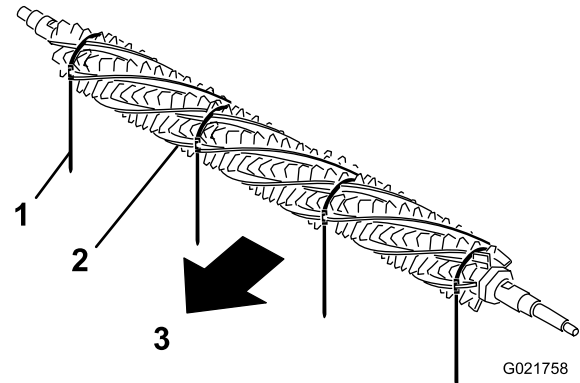


Figure 18

1. Strap
2. Brush
3. Front

2. Verify that the brushes are seated in the groomer blade slots ([Figure 19](#) & [Figure 20](#)).
3. Loosely wrap the straps, as shown in [Figure 20](#), around the groomer reel shaft and brushes inserting the straps in the grooves in the brushes.

Important: The straps must be wrapped around the groomer blade and brush assembly in the correct direction.

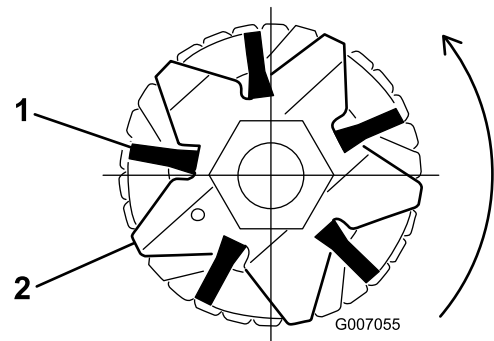


Figure 19

1. Brush
2. Blade

Note: If the broomer brushes are not seated properly in the blade slots, loosen the groomer blade retaining nuts on each end of the groomer shaft, position the broomer brushes properly in the blade slots and tighten the groomer blade retaining nuts ([Figure 20](#)).

4. While pushing a screwdriver against the strap buckle, grasp the strap with locking pliers, and pull the straps tight until they lock in the brush grooves ([Figure 20](#)).

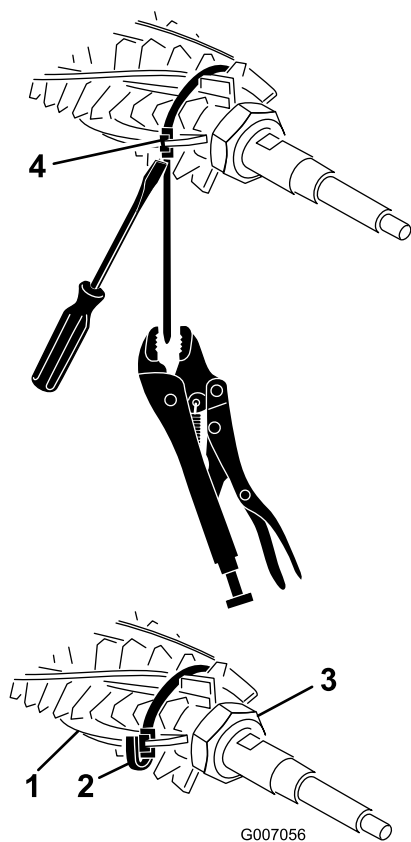


Figure 20

1. Brush
 2. Strap
 3. Retaining nut (2)
 4. Strap buckle
-
5. Trim off the strap to approximately 6.4 mm (1/4 inch) from the buckle, and fold the excess strap over the buckle ([Figure 20](#))

Operation

Grooming is performed in the turf canopy above the soil level. Grooming promotes vertical growth of grass plants, reduces grain and severs stolons producing a denser turf. Grooming produces a more uniform and tighter playing surface for faster and truer action of the golf ball.

Verticutting is a more aggressive cultivation technique designed to remove thatch by cutting through the turf canopy and into the thatch/mat layer. Grooming should not be considered a replacement for verticutting. Verticutting is generally a more rigorous and periodic treatment that can temporarily damage the playing surface, while grooming is a routine and gentler treatment designed to manicure the turf.

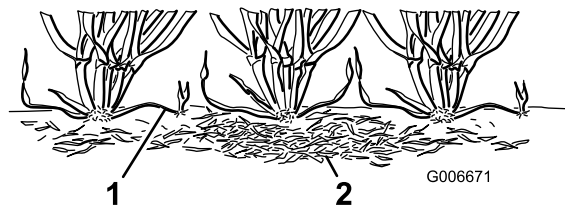


Figure 21

1. Grass runners (stolons)
2. Thatch

Grooming brushes are a more recent development which are designed to be less intrusive than conventional grooming blades when adjusted to lightly contact the turf canopy. Brushing may be more beneficial for the ultra-dwarf cultivars, since these grass types have more of a upright growth pattern and do not fill in that well through horizontal growth. Brushes, however, can injure leaf tissue if they are set to penetrate too deeply into the canopy.

Grooming is similar to verticutting in its runner cutting action. Grooming blades however, should never penetrate the soil like verticutting or dethatching. Groomer blades are spaced closer together and are used more often than verticutters so that they are more effective in cutting runners and removing thatch.

Because grooming injures leaf tissue to some degree, it should be avoided during periods of high stress. Cool season species such as creeping bent grass and annual blue grass should not be groomed during high temperature (and high humidity) periods in midsummer.

It is difficult to make specific recommendations on the use of grooming reels because so many variables affect the performance of grooming, including:

- The time of the year (the growing season) and weather pattern
- The general condition of each fairway
- The frequency of grooming/cutting—both how many cuttings per week and how many passes per cutting
- The height-of-cut setting on the main reel
- The height/depth setting on the grooming reel
- How long the grooming reel has been in use

- The type of grass
- The overall management program (such as irrigation, fertilizing, spraying, coring, and over-seeding)
- The traffic on the fairway
- Stress periods (such as high temperatures, high humidity, unusually high traffic)

These factors can vary from golf course to golf course. It is important, therefore, to inspect the fairways frequently and vary the grooming practice in accordance with the need.

Note: The practice of changing the direction of cut each time the fairway is cut should be continued when a groomer is used. This rotation will enhance the effects of the grooming.

Note: Using the groomer reel in an improper or overly aggressive manner (too deep or too frequent grooming) may cause unnecessary stress of the turf leading to severe turf damage. Use the groomer cautiously.

Note: Operate the groomer in a straight line as much as possible. Use caution when turning while operating the groomer.

Adjusting the Groomer Height

1. Park the machine on a clean and level surface, lower the cutting units completely to the ground, stop the engine, engage the parking brake and remove the key from the ignition switch.
2. Make sure that the rollers are clean and cutting unit is set to the desired height of cut; refer to the cutting unit *Operator's Manual*.
3. Rotate the quick-up levers ([Figure 22](#)) to the engaged position (handle pointing toward the front of the cutting unit). Use the **Height of Cut (HOC)** and **Height of Groom (HOG)** recommended range chart for setting the gauge bar.
4. On 1 end of the groomer reel, measure the distance from the lowest tip of the groomer blade to the working surface ([Figure 22](#)). Turn the height-adjuster knob ([Figure 22](#)) to raise or lower the groomer blade tip to the desired height.

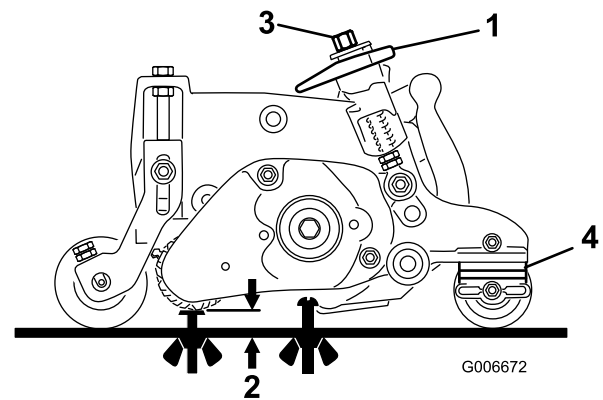


Figure 22

- | | |
|--------------------------------------|---|
| 1. Quick-up lever (engaged position) | 3. Height-adjuster knob |
| 2. Groomer height (HOG) | 4. Number of rear roller spacers (below side-plate pad) |
-
5. Repeat step 4 on the opposite end of the groomer. Then check the setting on the first side of the groomer. The height setting on both ends of the groomer should be identical. Adjust as required.

Important: After adjusting the height of the groomer, adjust the jam nuts on threaded rod so that the springs are 3.5 cm (1-3/8 inches) long when the quick-up levers are in the disengaged position (handle pointed toward the rear of the cutting unit); refer to [Figure 23](#).

Note: 3.5 cm (1-3/8 inches) is the distance from the top of the jam nut to the bottom of the groomer-mounting bracket.

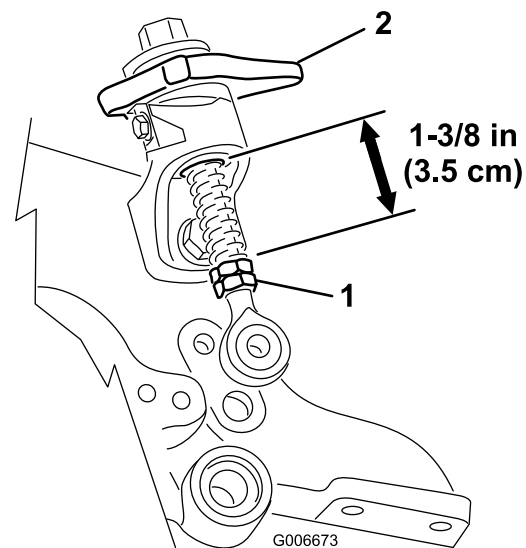


Figure 23

- | | |
|-------------------|-------------|
| 1. Quick-up lever | 2. Jam nuts |
|-------------------|-------------|
-

Height of Cut (HOC) and Height of Groom (HOG) Recommended Range

Height of Cut	Number of Rear Roller Spacers	Recommended HOG = HOC - Groomer Engagement
0.250 inch (6.35 mm)	0	0.125 to 0.250 inch (3.175 to 6.35 mm)
0.375 inch (9.525 mm) 0.375 inch (9.525 mm)	0 1	0.187 to 0.375 inch (4.750 to 9.525 mm) 0.187 to 0.375 inch (4.750 to 9.525 mm)
0.500 inch (12.7 mm) 0.500 inch (12.7 mm) 0.500 inch (12.7 mm)	0 1 2	0.250 to 0.500 inch (6.35 to 12.7 mm) 0.250 to 0.500 inch (6.35 to 12.7 mm) 0.250 to 0.375 inch (6.35 to 9.525 mm)
0.625 inch (15.875 mm) 0.625 inch (15.875 mm) 0.625 inch (15.875 mm)	0 1 2	0.375 to 0.625 inch (9.525 to 15.875 mm) 0.375 to 0.625 inch (9.525 to 15.875 mm) 0.375 to 0.500 inch (9.525 to 12.7 mm)
0.750 inch (19.05 mm) 0.750 inch (19.05 mm) 0.750 inch (19.05 mm)	1 2 3	0.500 to 0.750 inch (12.7 to 19.05 mm) 0.500 to 0.750 inch (12.7 to 19.05 mm) 0.500 to 0.625 inch (12.7 to 15.875 mm)
0.875 inch (22.225 mm) 0.875 inch (22.225 mm) 0.875 inch (22.225 mm)	1 2 3	0.625 to 0.875 inch (15.875 to 22.225 mm) 0.625 to 0.875 inch (15.875 to 22.225 mm) 0.625 to 0.750 inch (15.875 to 19.05 mm)
1.00 inch (25.4 mm) 1.00 inch (25.4 mm) 1.00 inch (25.4 mm)	2* 3 4	0.750 to 1.00 inch (19.05 to 25.4 mm) 0.750 to 1.00 inch (19.05 to 25.4 mm) 0.750 to 0.875 inch (19.05 to 22.225 mm)

Note: The maximum HOG recommended is half the HOC to 0.25 inch (6.35 mm) maximum engagement.

* Move the groomer front height-of-cut (HOC) bracket to the bottom (cutting unit location) side-plate hole.

2. Set each of the grooming reels to the desired height setting.
3. Examine the test area and determine if the groomed areas gives the desired results. If not, increase or decrease the height of the groomers, and make another test pass. The amount of grass removed is a key indicator in determining the height/depth setting of the grooming reel.

Testing the Groomer Performance

Important: Improper or overly aggressive use of the grooming reel (too deep or too frequent grooming) may cause unnecessary stress on the turf leading to severe damage. Use the groomer cautiously.

Check the test area 2 or 3 days after the first grooming for general condition/damage. If the groomed areas are turning yellow/brown, and the non-groomed areas are green, then the grooming was too aggressive.

⚠ DANGER

Contact with the reels or other moving parts can result in personal injury.

- Before making any adjustments to the cutting units, disengage the reels, set the parking brake, stop the engine, and remove the ignition key.
- Keep fingers, hands, and clothing away from the reels or other moving parts.

It is important to determine the performance of the groomer before putting it into regular use.

We suggest that a formal test procedure be used. The following is a practical way of determining the proper height/depth setting:

1. Set the main cutting reels to the height of cut that would normally be used without the grooming reel. Use a Wiehle roller on the front and a full roller on the rear.

Maintenance

Cleaning the Groomer

Hose off the grooming reel after using it. Do not direct the water stream directly at the groomer bearing seals. Do not permit the grooming reel to stand in water so that the components rust.

Lubricating the Groomer

Lubricate the grease fittings every 50 hours (Figure 24). Wipe off any excess grease.

Note: After greasing the groomer bearings, operate the groomer for 30 seconds, stop the machine, and wipe excess grease from the groomer shaft and seals.

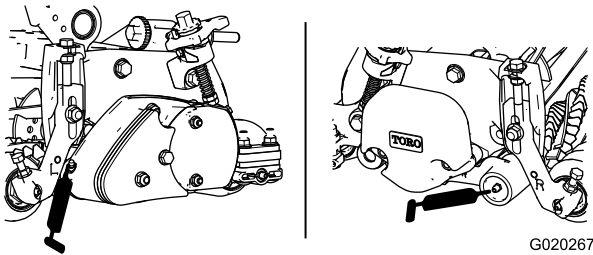


Figure 24

Inspecting the Blades

Inspect the grooming reel blades frequently for damage and wear. Bent blades may be straightened with a pliers. Worn blades may be replaced. When inspecting the blades, check to see that the right and left blade shaft end nuts are tight.

Note: Because the groomer may introduce more debris (such as dirt and sand) into the cutting unit than what the reel would normally be exposed to, the bedknife and main reel should be checked for wear more frequently. This is especially important in sandy soil.

Important: Backlapping at the incorrect reel speed may loosen and strip the drive-pulley threads. Refer to the cutting unit *Operator's Manual* for the backlapping procedure.

Note: The groomer blades, idler bearing, and belt(s) are considered consumable items.

Aligning the Groomer Pulley/Belt

1. The driven pulley (at the groomer shaft) can move in or out. Make note of which way the pulley needs to move.
2. Remove the idler spring, releasing tension from the belt.

3. Remove the belt.
 4. Remove the lock nut securing the driven pulley to the end of the groomer shaft. Insert a 5/8 inch wrench on the flats on the groomer shaft to keep the shaft from rotating.
 5. Remove the pulley from the shaft.
 6. If the pulley needs to move out, add (1) 0.032 inch spacer. If the pulley needs to move in, remove the existing 0.032 inch spacer.
 7. Install the pulley.
- Note:** Make sure that the pulley key is installed, if so equipped.
8. Hold the groomer shaft from rotating by putting a 5/8 inch wrench on the flats on the shaft. Secure the pulley on the shaft with the flange nut.
 9. Torque the nut to 37 to 45 N-m (27 to 33 ft-lb).
 10. Install the belt and idler spring.
 11. Check the alignment; the outer faces of the drive and driven pulleys should be in line within 0.7 mm (0.030 inch). **Do not use the idler pulley to check alignment.**

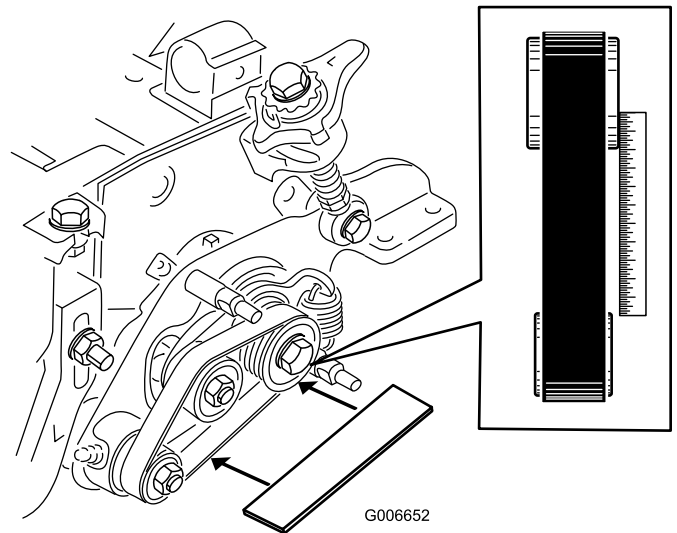


Figure 25

Groomer Binding Troubleshooting

1. Make sure that the groomer is set to the desired height of groom (HOG); refer to [Figure 26](#).

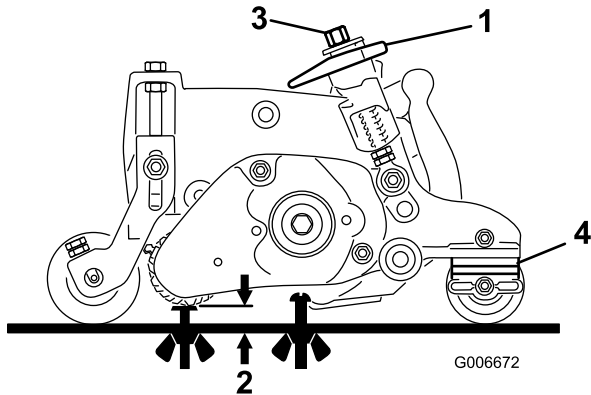


Figure 26

- | | |
|--------------------------------------|---|
| 1. Quick-up lever (engaged position) | 3. Height-adjuster knob |
| 2. Groomer height (HOG) | 4. Number of rear roller spacers (below side-plate pad) |

2. Loosen the quick-up mounting bolt and make sure that the threaded rod is in line and not binding on the bottom quick-up ramp ([Figure 27](#)). Tighten the bolts.
3. Check the length of the quick-up springs on the threaded rods, the length should be 3.5 cm (1-3/8 inches); refer to [Figure 27](#).

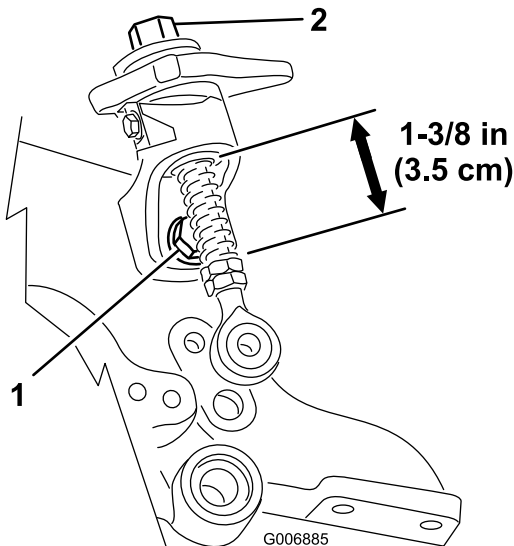


Figure 27

- | | |
|---------------------------|-------------------------|
| 1. Quick-up mounting bolt | 2. Height-adjuster knob |
|---------------------------|-------------------------|

4. If the height-adjuster knob does not rotate freely, the bushing may be dirty ([Figure 27](#)). Clean the bushing if necessary.

5. Make sure that the main drive bushing ([Figure 28](#)) pivots freely around the drive hub.

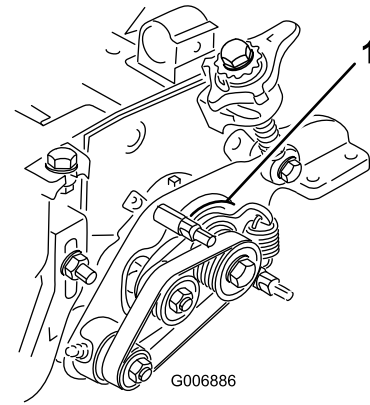


Figure 28

- | |
|-----------------------|
| 1. Main drive bushing |
|-----------------------|

6. Make sure that the shim ([Figure 29](#)) between the drive side groomer pivot plate and the cutting-unit side plate is not pinched by the pivot hub. The shim must be able to move freely.

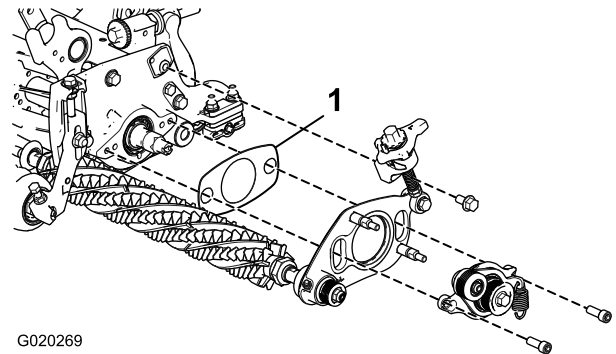


Figure 29

- | |
|---------|
| 1. Shim |
|---------|

7. Make sure that nuts on the covers ([Figure 30](#)) are not over-tightened.

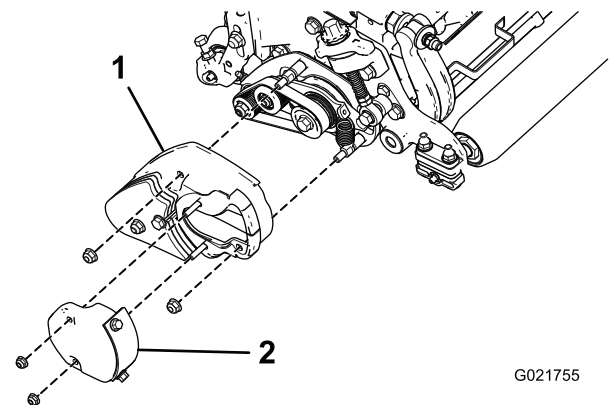


Figure 30

- | | |
|------------------|-----------------|
| 1. Groomer cover | 2. Access cover |
|------------------|-----------------|

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
03914	—	Left-Hand Groomer Kit for Reelmaster 3550 Series 18-inch Cutting Unit	RM3550 18"GROOMER-(LH)	Groomer Kit	2000/14/EC 2006/42/EC
03915	—	Right-Hand Groomer Kit for Reelmaster 3550 Series 18-inch Cutting Unit	RM3550 18"GROOMER-(RH)	Groomer Kit	2000/14/EC 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:



David Klis
Sr. Engineering Manager
8111 Lyndale Ave. South
Bloomington, MN 55420, USA
May 29, 2012

EU Technical Contact:

Peter Tetteroo
Toro Europe NV
B-2260 Oevel-Westerloo
Belgium

Tel. 0032 14 562960
Fax 0032 14 581911