



Smooth or Grooved Roller 200mm (8in) Cutting Unit

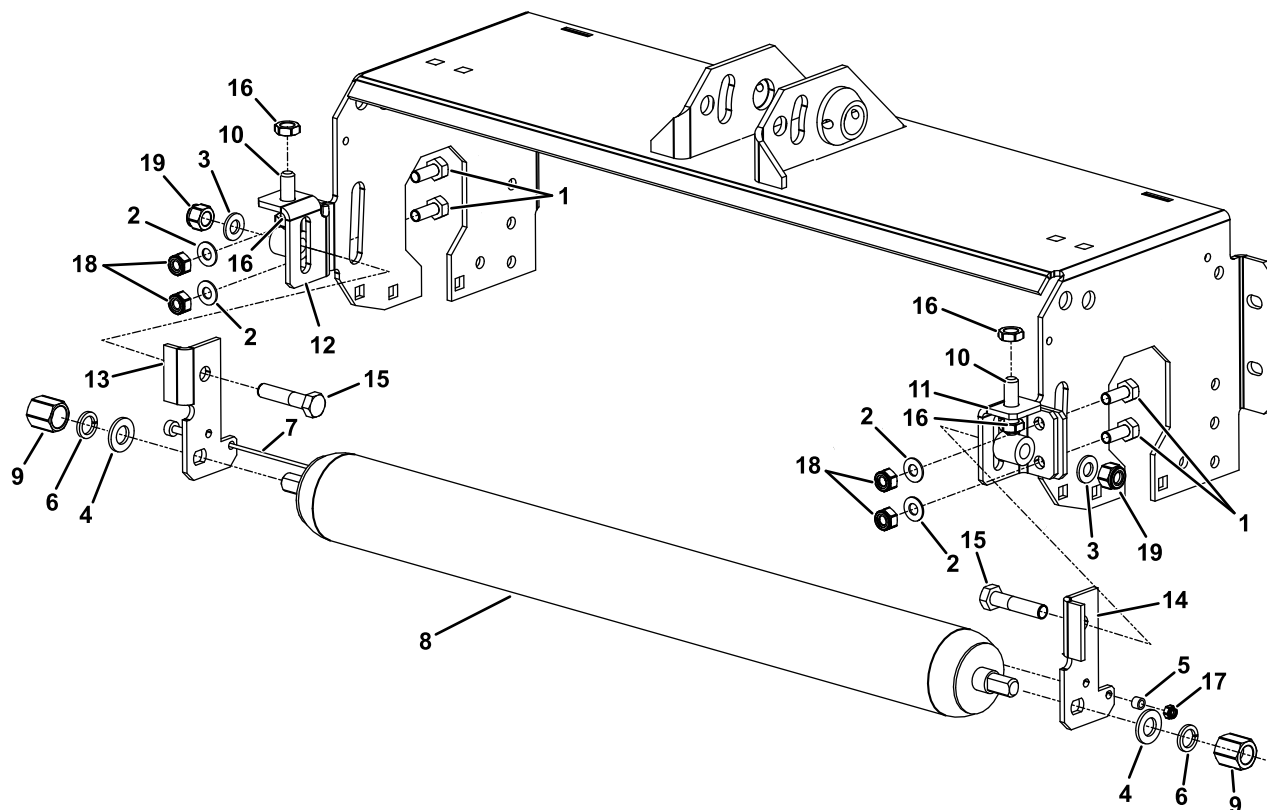
Form No. 3410-408 Rev B

Model No. 02822—Serial No. 400000000 and Up

Model No. 02823—Serial No. 400000000 and Up

Installation Instructions

Installing the Smooth Roller Kit



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Figure 1
Smooth roller

- | | |
|-----------------------------------|------------------------------|
| 1. SETSCREW M10*25 | 11. BRACKET FRONT ROLLER LH |
| 2. WASHER M10*21*1.45 FORMB LIGHT | 12. BRACKET FRONT ROLLER RH |
| 3. WASHER PLAIN M12 | 13. PLATE ROLLER ADJUSTER RH |
| 4. WASHER PLAIN M16 | 14. PLATE ROLLER ADJUSTER LH |
| 5. BUSH DIA 6.3* DIA 9.5*7 | 15. SETSCREW M12*55 |
| 6. WASHER SPRING M16 | 16. NUT M12 LOCK |
| 7. SCRAPER WIRE 30 MM | 17. NUT M6 NYLOC 'T' TYPE |
| 8. ROLLER SMOOTH 76 MM DIA MK3 | 18. NUT M10 NYLOC |
| 9. NUT ROLLER | 19. NUT M12 NYLOC |
| 10. ROLLER ADJUSTER W/A | |

1. Park the machine on a level surface, lower the cutting units, shut off the engine, engage the parking brake, and remove the key from the ignition switch.
2. Fit the plate (item 14) over the flat of the roller (item 8) and secure using the flat washer (item 4), spring washer (item 6) and nut roller (item 9).
3. Take the roller adjuster (item 10) and screw on one locknut (item 16), then push threaded



- end through bracket (item 11) and screw on the second locknut (item 16), leave finger tight.
4. Connect bracket (item 11) to the plate (item 14) using setscrew (item 15), washer (item 3) and nyloc nut (item 19), leave finger tight.
 5. Repeat steps 2 - 5 for the other end of the roller.
 6. Assemble the front roller assembly to the slotted brackets on the cutting unit frame using the screws (items 1), washers (items 2) and Nyloc nuts (items 18), refer to the parts list.
 7. Insert the scraper wire (item 7) through the small hole in both plates (items 13 and 14) and then secure using a washer (item 5) and a nut (item 17).
 8. After adjusting the roller for correct height, tighten all nuts and screws to the following torque settings:
 - Item 1 - tighten to 45 N·m (33 ft-lb)
 - Item 9 - tighten to 100 N·m (74 ft-lb)
 - Items 15 and 16 - tighten to 70 N·m (51.6 ft-lb)
 9. Grease the roller grease nipples until grease is expelled around the end caps.

Note: Toro recommends an anti-seize grease known as BP Keenomax L2.
 10. Fix the serial label adjacent to the cutting unit serial number label.

Installing the Grooved Roller Kit

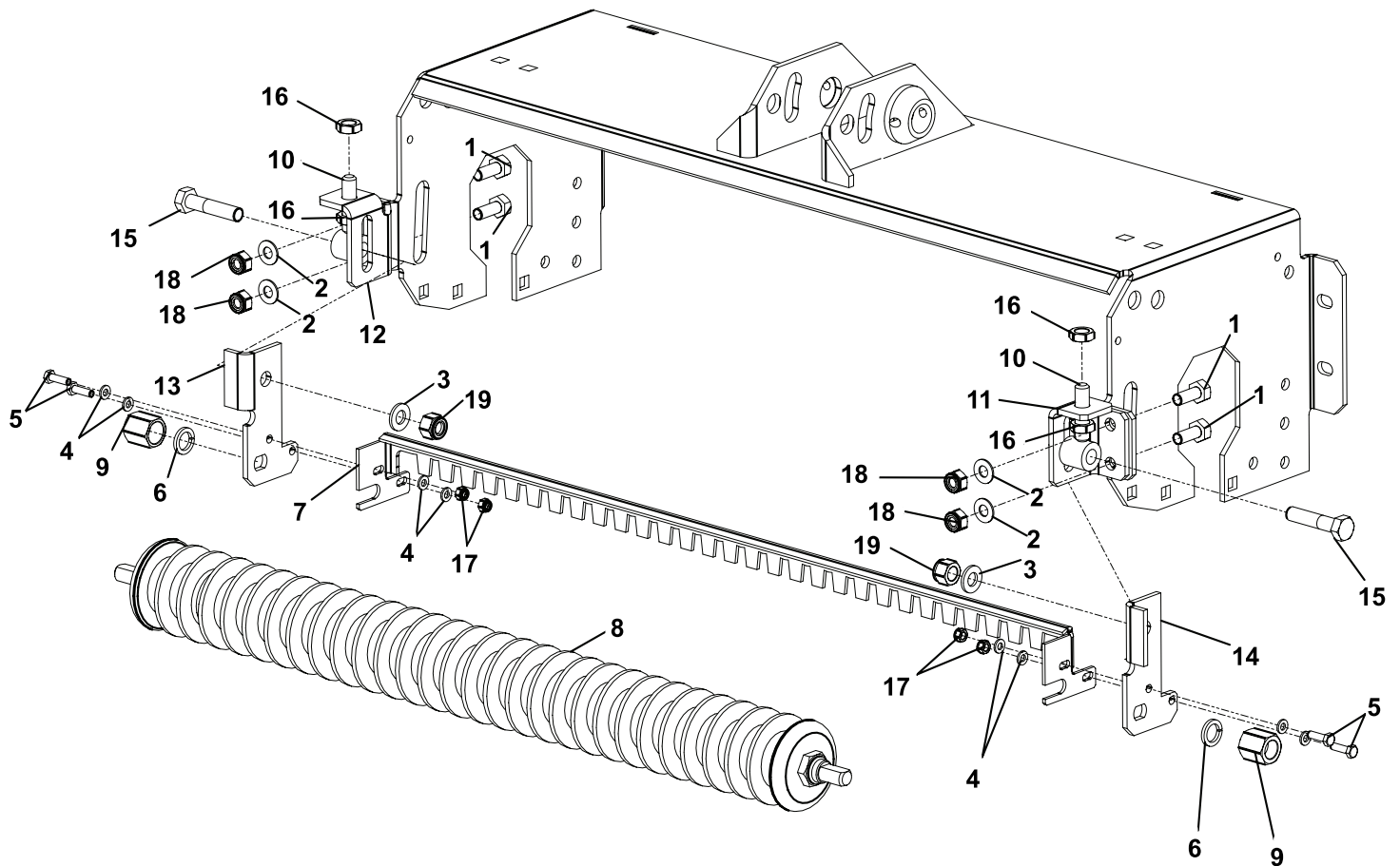


Figure 2
Grooved roller

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|-----------------------------------|------------------------------|
| 1. SETSCREW M10*25 | 11. BRACKET FRONT ROLLER LH |
| 2. WASHER M10*21*1.45 FORMB LIGHT | 12. BRACKET FRONT ROLLER RH |
| 3. WASHER PLAIN M12 | 13. PLATE ROLLER ADJUSTER RH |
| 4. WASHER PLAIN M6*12*1.6 | 14. PLATE ROLLER ADJUSTER LH |
| 5. SETSCREW M6*20 | 15. SETSCREW M12*55 |
| 6. WASHER SPRING M16 | 16. NUT M12 LOCK |
| 7. SCRAPER GROOVED ROLLER | 17. NUT M6 NYLOC 'T' TYPE |
| 8. ROLLER GROOVED MK3 | 18. NUT M10 NYLOC |
| 9. NUT ROLLER | 19. NUT M12 NYLOC |
| 10. ROLLER ADJUSTER W/A | |

1. Park the machine on a level surface, lower the cutting units, shut off the engine, engage the parking brake, and remove the key from the ignition switch.
2. Push the threaded end of the roller through the plate.
3. Add the spring washer and the roller nut.
Note: Leave the nut loose.
4. Repeat the process for the other end of the roller.
5. Push the scraper bar onto the flats of the roller end and tighten the roller nuts finger tight.
6. Take the roller adjuster (item 10) and screw on one locknut (item 16), then push the threaded end through bracket (item 11) and screw on the second locknut (item 16), leave finger tight. Connect bracket (item 11) to the plate (item 14) using setscrew (item 15), washer (item 3) and nyloc nut (item 19), leave finger tight. Repeat the above procedure for the other end.

7. Locate the scraper bar screw (item 5) and push it through one plate (item 14), then through the hole in the scraper bar (item 7) and fasten with nut (item 17) and washer (item 4). Repeat this procedure but use the slot in scraper bar (item 7).
 8. Repeat the above procedure for the other end of the roller.
 9. Move the complete assembly onto the cutterbar and fix with M10*25 setscrews (item 1), nuts (item 18) and washers (item 2).
 10. After adjusting the roller to the correct height, tighten all nuts to the following torque settings:
 - Item 1 - tighten to 45 N·m (33 ft-lb)
 - Item 9 - tighten to 100 N·m (74 ft-lb)
 - Item 17 - tighten to 10 N·m (7.4 ft-lb)
 - Items 16 and 19 - tighten to 70 N·m (51.6 ft-lb)
 11. Grease the roller grease nipples until grease is expelled around the end caps.
- Note:** Toro recommends an anti-seize grease known as BP Keenomax L2.
12. Fix the serial label adjacent to the cutting unit serial number label.

Pivot Plate Fixing

Secure the bolt in the rear floating slot position (Figure 3).

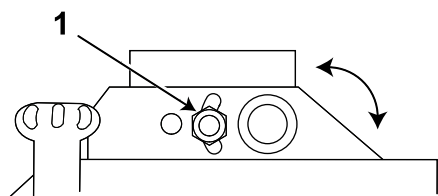


Figure 3

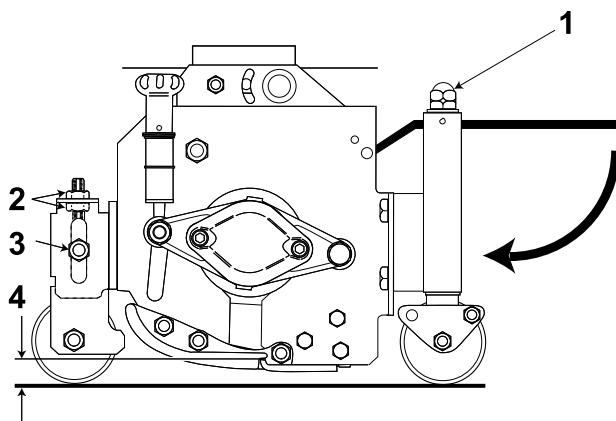
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1. Bolt

Adjusting the Height of Cut

The height of cut is gauged by the position of the front and rear rollers.

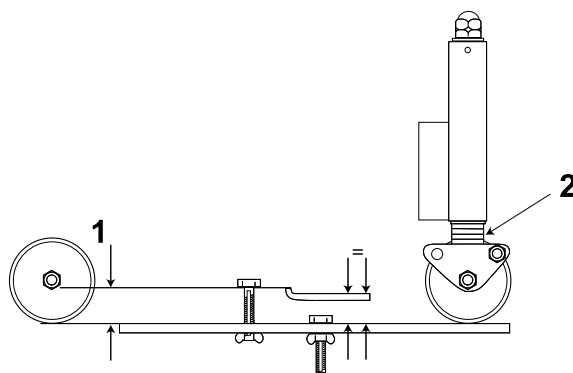
1. To alter the front roller position, slacken the locking nut, then release and turn the adjusting nuts both ends clockwise to increase the height of cut or counterclockwise to decrease the height of cut (Figure 4 and Figure 5).
2. Ensure that all cutting units are set at the same height of cut by referring to the indicator rings and using the height of cut gauge as shown across the full width of each cutting unit (Figure 4 and Figure 5).
3. Tighten the adjusting nuts and locking nuts on both ends (Figure 4).



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Figure 4

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|-------------------|------------------|
| 1. Nut assembly | 3. Locking nut |
| 2. Adjusting nuts | 4. Height of cut |



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Figure 5

1. Height of cut
2. Indicator rings

Important: When changing from floating cutting units to fixed, the front roller assembly must be removed.

Notes:

Notes:

EEA/UK Privacy Notice

Toro's Use of Your Personal Information

The Toro Company ("Toro") respects your privacy. When you purchase our products, we may collect certain personal information about you, either directly from you or through your local Toro company or dealer. Toro uses this information to fulfil contractual obligations - such as to register your warranty, process your warranty claim or to contact you in the event of a product recall - and for legitimate business purposes - such as to gauge customer satisfaction, improve our products or provide you with product information which may be of interest. Toro may share your information with our subsidiaries, affiliates, dealers or other business partners in connection these activities. We may also disclose personal information when required by law or in connection with the sale, purchase or merger of a business. We will never sell your personal information to any other company for marketing purposes.

Retention of your Personal Information

Toro will keep your personal information as long as it is relevant for the above purposes and in accordance with legal requirements. For more information about applicable retention periods please contact legal@toro.com.

Toro's Commitment to Security

Your personal information may be processed in the US or another country which may have less strict data protection laws than your country of residence. Whenever we transfer your information outside of your country of residence, we will take legally required steps to ensure that appropriate safeguards are in place to protect your information and to make sure it is treated securely.

Access and Correction

You may have the right to correct or review your personal data, or object to or restrict the processing of your data. To do so, please contact us by email at legal@toro.com. If you have concerns about the way in which Toro has handled your information, we encourage you to raise this directly with us. Please note that European residents have the right to complain to your Data Protection Authority.



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.

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.

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.