



Tri-Roller

for Greensmaster® 3300/3400 Series TriFlex® Traction Units

Model No. 04722—Serial No. 400000000 and Up

Operator's Manual

Setup

1

Installing the Tri-Roller Units

No Parts Required

Procedure

1. Park the machine on a level surface, shut off the engine, engage the parking brake, and remove the key.
2. Position the tri-roller unit under the suspension arm.
3. With the latches on the suspension-arm bar pointing up (Figure 1), push the suspension arm down so that the bar fits over the bar across the top of the tri-roller unit (Figure 2).

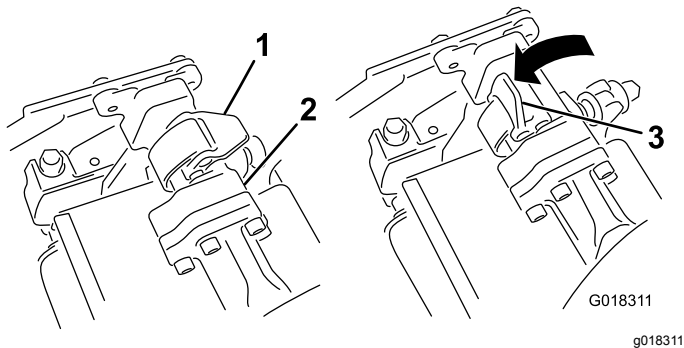


Figure 1

1. Latch—closed position
2. Suspension-arm bar
3. Latch—open position

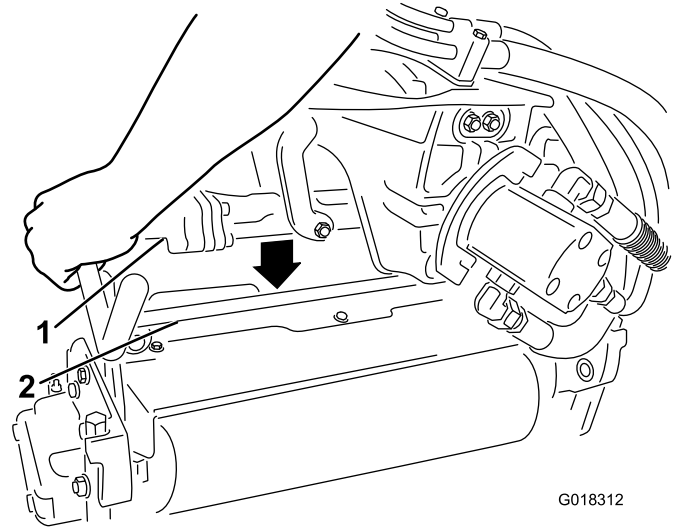


Figure 2

1. Suspension-arm bar
2. Tri-roller unit bar

4. Close the latches down and around the tri-roller unit and lock them in place (Figure 1).

Note: You will hear and feel a “click” when the latches are properly locked in place.

5. Insert the motor into the left side of the tri-roller unit (as viewed from the operator's position) and pull the motor retaining bar on the tri-roller unit toward the motor until you hear a “click” from both sides of the motor (Figure 3).



2

Removing the Tri-Roller Unit

No Parts Required

Procedure

1. Park the machine on a clean level surface, lower the tri-roller units to the ground until the suspension hydraulics are fully extended, shut off the engine, engage the parking brake, and remove the key from the ignition switch.
2. Push the motor retaining bar out of the slots on the motor toward the tri-roller unit and remove the motor from the tri-roller unit.

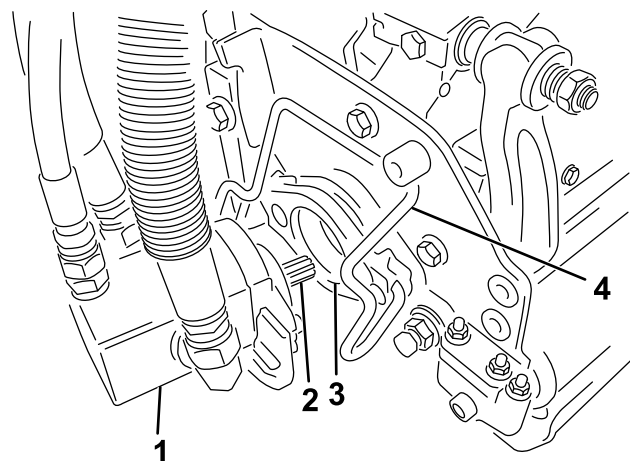


Figure 3

- | | |
|-----------------|------------------------|
| 1. Motor | 3. Cavity |
| 2. Spline shaft | 4. Motor retaining bar |

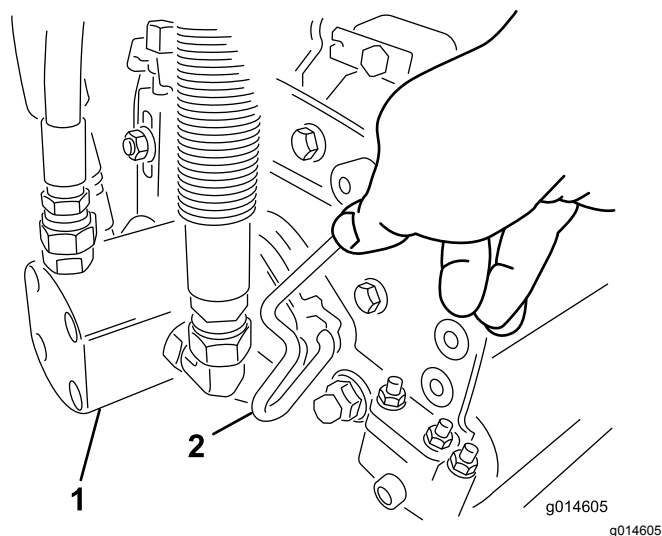


Figure 4

- | | |
|----------|------------------------|
| 1. Motor | 2. Motor retaining bar |
|----------|------------------------|

3. Move the motor to the storage location on the front of the suspension arm.

Note: Do not raise the suspension to the transport position when the reel motors are in the holders in the machine frame. Damage to the motors or hoses could result. If you must move the traction unit without the tri-roller units installed, secure them to the suspension arms using cable ties.

4. Open the latches on the suspension-arm bar of the tri-roller unit you are removing.
5. Disconnect the latches from the tri-roller unit bar.
6. Roll the tri-roller unit out from under the suspension arm.

7. Repeat steps 2 through 6 for the other tri-roller units as required.

3

Adding Rear Weight

Parts needed for this procedure:

1	Weight kit, 119-7129 (purchase separately)
---	--

Procedure

This machine complies with the ANSI B71.4-2012 and EN ISO 5395:2013 Standards when equipped with the Weight Kit, Part No. 119-7129.

Operation

Installing the Electrical Counterweights

Note: If the Tri-roller is installed on greensmower models 04530 or 04540, you must use an additional hybrid counterweight.

1. Remove and discard the counterweight bolts.
2. Install 2 bolts (5/16-18 x 2 3/4 inch) as shown in [Figure 5](#).

Note: These bolts are not included with this kit. Toro part number: 322-33.

3. Install 4 spacers (1/8 inch) per bolt between the counterweight and the tri-roller side plate ([Figure 5](#)).

Note: These spacers are not included with this kit. Toro part number: 63-8410.

4. Install the hybrid auxiliary weight provided with the traction unit with the provided bolts.

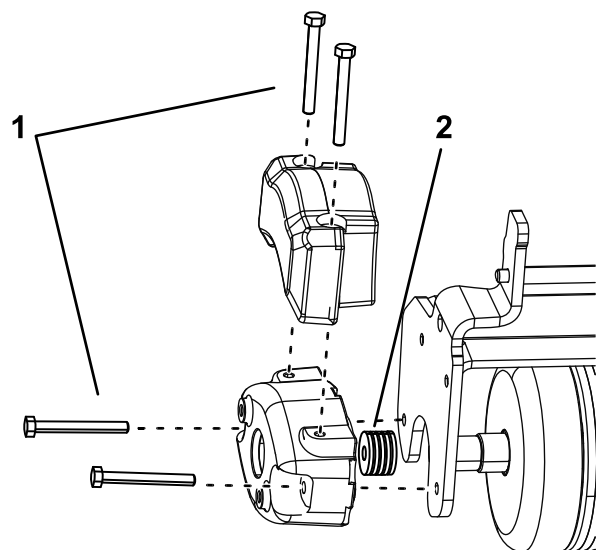


Figure 5

1. Cap screws

2. Washers

Training Period

Before rolling greens, find a clear area and practice starting, stopping, raising, lowering, and rolling with the tri-roller.

Operating Tips

Maintain a straight line when rolling. Do not turn when the tri-rollers are on the ground.

When the edge of the green has been reached, raise the tri-rollers before turning or stopping. You must completely raise the tri-rollers before making turns. Survey the green to determine if there are any obstacles that will be damaged or will result in damage to the rollers, such as sprinkler heads and protruding objects.

Maintenance

Lubricating the Tri-Roller

Lubricate the 2 grease fittings (Figure 6) on each tri-roller unit after every 15 hours of operation, with No. 2 lithium grease. Use a hand-operated grease gun for best results.

1. Wipe each grease fitting with a clean rag.
2. Apply grease to the tri-roller shaft bearings until you feel pressure (Figure 6).

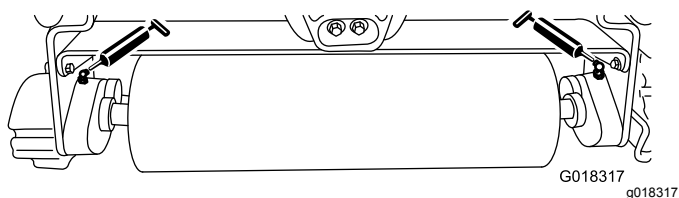


Figure 6

-
3. Wipe excess grease away.

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
04722	312000001 and Up	Tri-Roller, Greensmaster 3300/3400 Series TriFlex Traction Unit	GREENS TRI-ROLLER KIT-TRIFLEX	Tri-Roller	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
December 3, 2015

Authorized Representative:

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

Tel. +32 16 386 659

European Privacy Notice

The Information Toro Collects

Toro Warranty Company (Toro) respects your privacy. In order to process your warranty claim and contact you in the event of a product recall, we ask you to share certain personal information with us, either directly or through your local Toro company or dealer.

The Toro warranty system is hosted on servers located within the United States where privacy law may not provide the same protection as applies in your country.

BY SHARING YOUR PERSONAL INFORMATION WITH US, YOU ARE CONSENTING TO THE PROCESSING OF YOUR PERSONAL INFORMATION AS DESCRIBED IN THIS PRIVACY NOTICE.

The Way Toro Uses Information

Toro may use your personal information to process warranty claims, to contact you in the event of a product recall and for any other purpose which we tell you about. Toro may share your information with Toro's affiliates, dealers or other business partners in connection with any of these activities. We will not sell your personal information to any other company. We reserve the right to disclose personal information in order to comply with applicable laws and with requests by the appropriate authorities, to operate our systems properly or for our own protection or that of other users.

Retention of your Personal Information

We will keep your personal information as long as we need it for the purposes for which it was originally collected or for other legitimate purposes (such as regulatory compliance), or as required by applicable law.

Toro's Commitment to Security of Your Personal Information

We take reasonable precautions in order to protect the security of your personal information. We also take steps to maintain the accuracy and current status of personal information.

Access and Correction of your Personal Information

If you would like to review or correct your personal information, please contact us by email at legal@toro.com.

Australian Consumer Law

Australian customers will find details relating to the Australian Consumer Law either inside the box or at your local Toro Dealer.



The Toro Warranty

A Two-Year Limited Warranty

Conditions and Products Covered

The Toro Company and its affiliate, Toro Warranty Company, pursuant to an agreement between them, jointly warrant your Toro Commercial product ("Product") to be free from defects in materials or workmanship for two years or 1500 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
Toro Warranty Company
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*. Failure to perform required maintenance and adjustments can be grounds for disallowing a warranty claim.

Items and Conditions Not Covered

Not all product failures or malfunctions that occur during the warranty period are defects in materials or workmanship. This 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. A separate warranty may be provided by the manufacturer of these items.
- Product failures which result from failure to perform recommended maintenance and/or adjustments. Failure to properly maintain your Toro product per the Recommended Maintenance listed in the *Operator's Manual* can result in claims for warranty being denied.
- Product failures which result from operating the Product in an abusive, negligent, or reckless manner.
- Parts subject to consumption through use unless found to be defective. Examples of parts which are consumed, or used up, during normal Product operation include, but are not limited to, 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, and check valves, etc.
- Failures caused by outside influence. Conditions considered to be outside influence include, but are not limited to, weather, storage practices, contamination, use of unapproved fuels, coolants, lubricants, additives, fertilizers, water, or chemicals, etc.
- 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, etc.

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. Battery replacement may be required during the normal product warranty period at owner's expense. Note: (Lithium-Ion battery only): A Lithium-Ion battery has a part only prorated warranty beginning year 3 through year 5 based on the time in service and kilowatt hours used. Refer to the *Operator's Manual* for additional information.

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.

Neither The Toro Company nor Toro Warranty Company is liable for indirect, incidental or consequential damages in connection with the use of the Toro Products covered by this warranty, including any cost or expense of providing substitute equipment or service during reasonable periods of malfunction or non-use pending completion of repairs under this warranty. 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 engine 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 for details.

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 the Toro importer.