



# Service Cutting Unit

Groundsmaster 4100-D Models 30447 and 30449

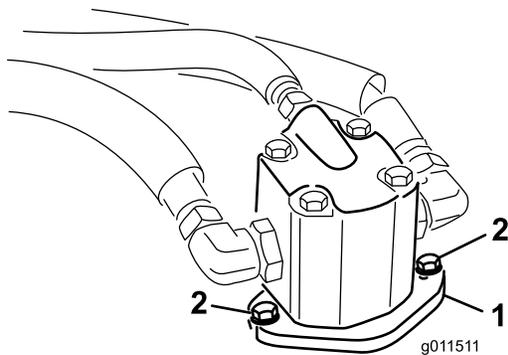
Model No. 30451—Serial No. 310000001 and Up

## Installation Instructions

# Installation

**Note:** If the service cutting unit is to be used on a Model 30411 or 30413 Traction Unit, the Deck Sensor Kit, Part No. 119-5307 must also be installed on the cutting unit.

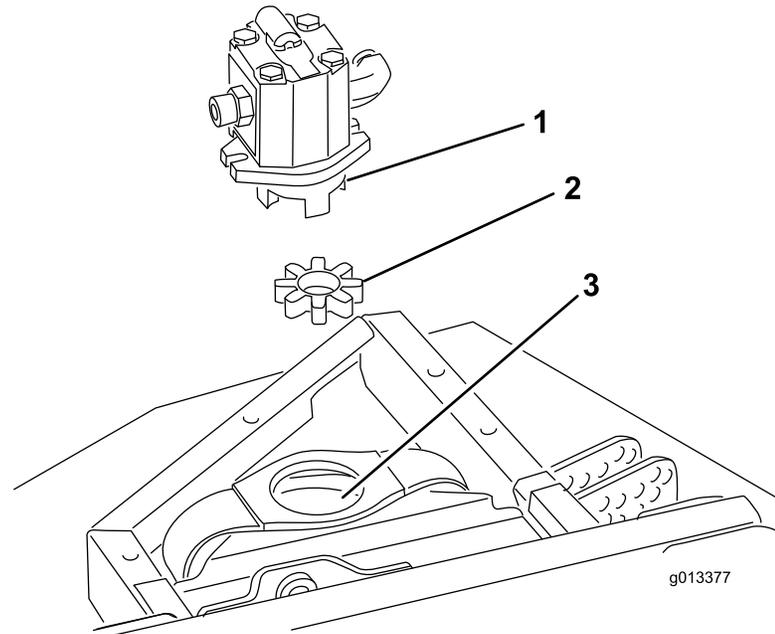
1. Park the machine on a level surface, lower the cutting unit to the floor, engage the parking brake, be sure the traction pedal is in the neutral position and the PTO is OFF. Shut the engine OFF and remove the key from the switch
2. Remove the bolts securing the hydraulic motors to the deck (Figure 1). Lift the motors off the deck and lay them on a clean, out of the way, surface. Do not damage aluminium couplers.



**Figure 1**

1. Hydraulic motor
2. Mounting bolts

3. Remove the elastomeric spider from inside each pulley coupler. Inspect for wear and replace if worn. Otherwise, retain for re-installation on new deck (Figure 2).



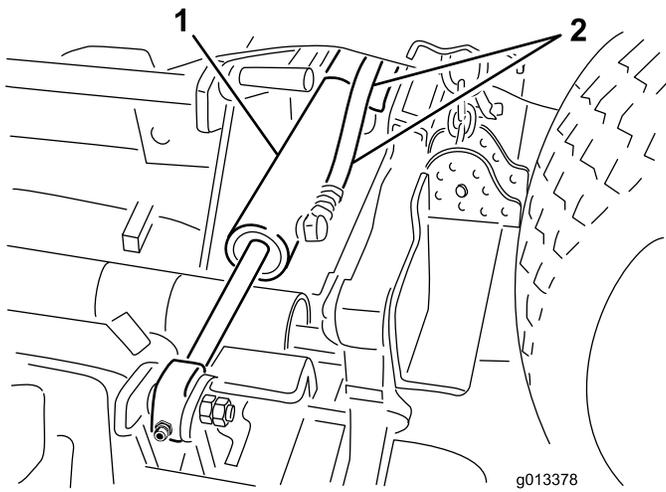
**Figure 2**

1. Spider
2. Spider hub
3. Pulley coupler

**Note:** Inspect spider hub for wear and replace if worn (Figure 2).

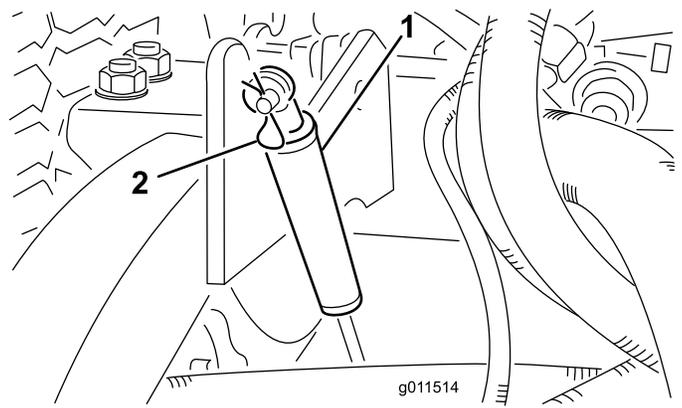
4. Disconnect the hydraulic hoses from the wing deck lift cylinders (Figure 3).

**Important:** When re-assembling the hydraulic hoses to the lift cylinders, make sure the O-rings are in place and the fittings are torqued to 17 to 19 ft-lbs.



**Figure 3**

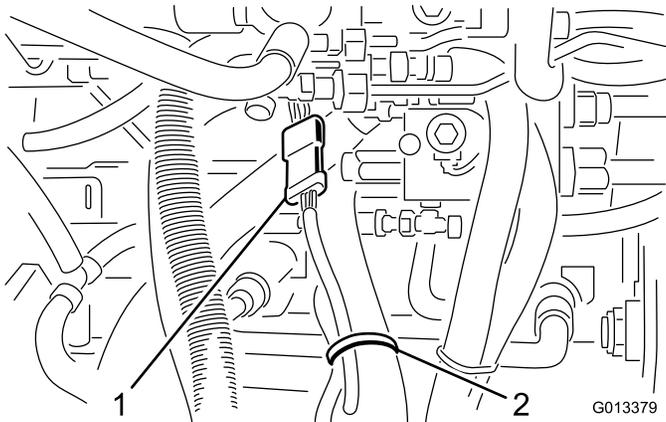
1. Wing deck lift cylinder      2. Hydraulic hoses



**Figure 5**

1. Damper      2. Hair pin cotter

5. Locate and unplug the cutting unit wire harness from the traction unit wire harness (Figure 4). Also, remove any cable ties securing the cutting unit wire harness to any traction unit components.



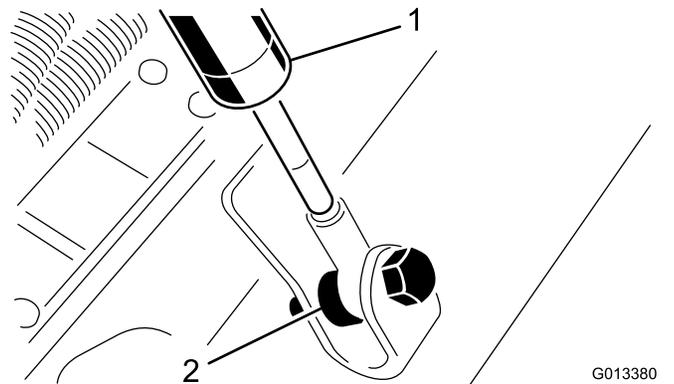
**Figure 4**

1. Wire harness      2. Cable tie

6. Remove the hair pin cotters securing the dampers to the cutting lift arms (Figure 5).

7. Remove the bolts, spacers and flange nuts securing the other end of the dampers to the cutting unit (Figure 6).

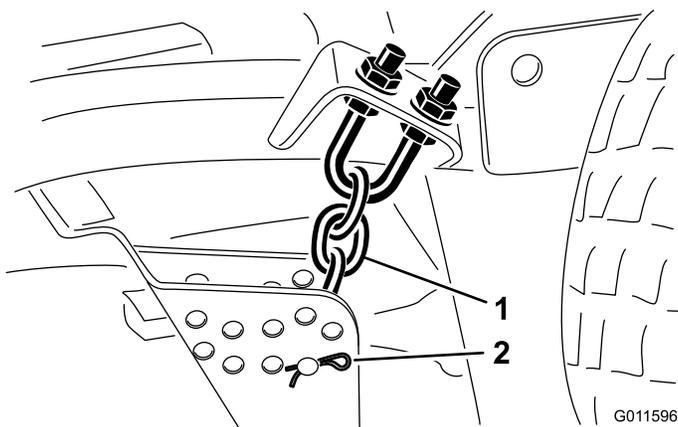
**Note:** Make sure the spacer is positioned in front of the damper rod end when re-assembling to the cutting unit.



**Figure 6**

1. Damper      2. Bolt, spacer and flange nut

8. Remove the hair pin cotters and clevis pins securing the height-of-cut chains to the rear of the cutting unit (Figure 7).

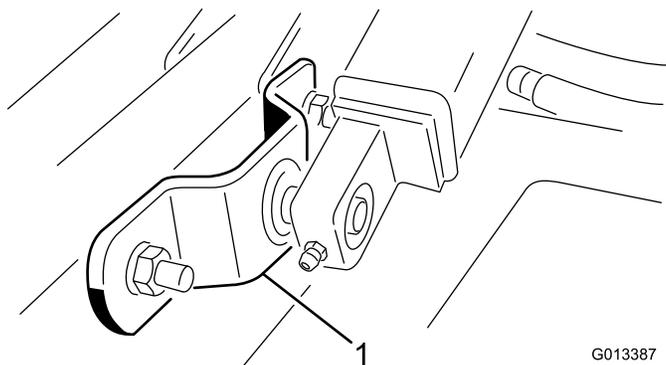


**Figure 7**

1. Height of cut chain
2. Clevis pin and hairpin cotter

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9. Remove the bolts, washers and locknuts securing each lift arm mount to the cutting unit castor arm tubes (Figure 8).

**Important:** When re-assembling the lift arm mounts to the castor arm tubes, make sure they are positioned so the slotted mounting holes are to the rear and the fasteners are torqued to 75–85 ft–lbs.



**Figure 8**

1. Lift arm mount (2)

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10. Move the cutting unit away from the traction unit.
  11. Slide the new cutting unit into position and mount it to the traction unit by reversing the procedure.



# The Toro Total Coverage Guarantee

## A 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:

Commercial Products Service Department  
Toro Warranty Company  
8111 Lyndale Avenue South  
Bloomington, MN 55420-1196  
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, brakes pads and linings, clutch linings, blades, reels, bed knives, tines, spark plugs, castor wheels, tires, filters, belts, and certain sprayer components such as diaphragms, nozzles, and check valves, etc.
- Failures caused by outside influence. Items considered to be outside influence include, but are not limited to, weather, storage practices, contamination, use of unapproved coolants, lubricants, additives, fertilizers, water, or chemicals, etc.

### 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. If all other remedies fail, you may contact us at Toro Warranty Company.

- 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.

### Note Regarding Deep Cycle Battery Warranty:

Deep cycle 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.

### Maintenance is at Owner's Expense

Engine tune-up, lubrication cleaning and polishing, replacement of Items and Conditions Not Covered 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 printed in your *Operator's Manual* or contained in the engine manufacturer's documentation for details