



Right-Hand, Left Hand and Front Hand Replacement Mower

2011 and After Groundsmaster® 4000-D Traction Unit

Model No. 30476—Serial No. 312000001 and Up

Model No. 30477—Serial No. 312000001 and Up

Model No. 30478—Serial No. 312000001 and Up

Installation Instructions

Remove Hydraulic Motor (Front or Side Decks)

1. Position machine on a level surface, lower cutting units to the ground, engage parking brake, be sure traction pedal is in neutral position, PTO lever in OFF position, shut engine OFF and remove key from switch.
2. Remove bolts securing hydraulic motor to deck (Figure 1). Lift motor off deck and lay it on a clean, out of the way, surface. Do not damage aluminium coupler.

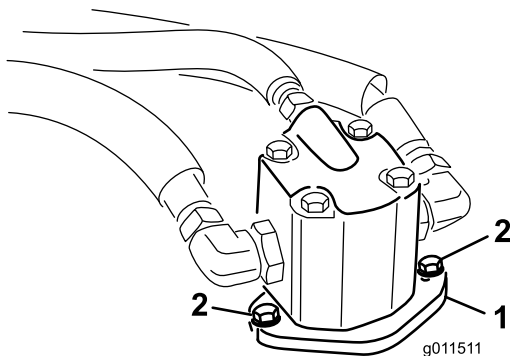


Figure 1

1. Hydraulic motor
2. Mounting bolts

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

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

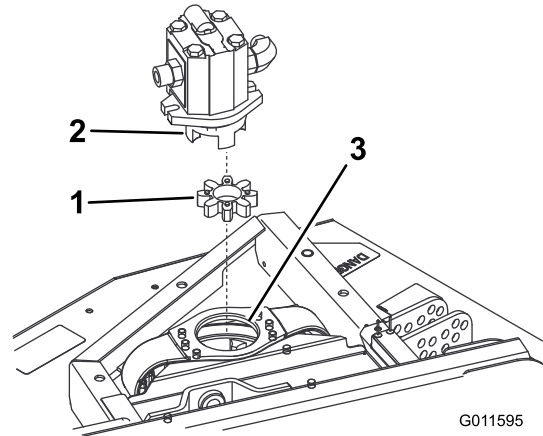


Figure 2

1. Spider
2. Spider hub
3. Pulley coupler

Replace Front Mower Deck

1. Remove hair pin cotters and clevis pins securing height-of-cut chains to rear of deck (Figure 3). Retain hair pin cotters and clevis pins for installation on new front deck.

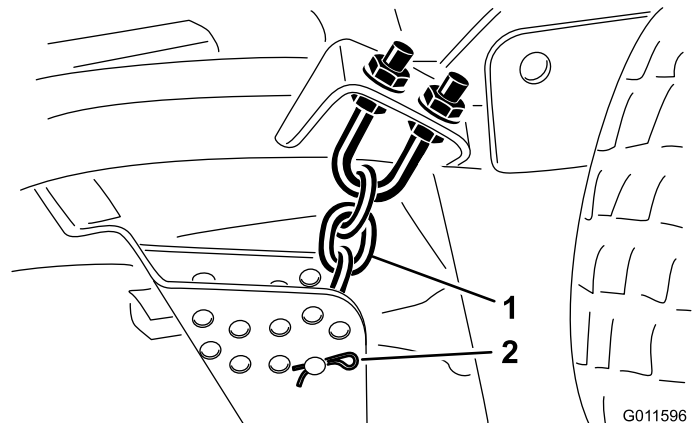


Figure 3

1. Height of cut chain
2. Clevis pin & hair pin cotter

- Remove bolts, washers and locknuts securing each lift arm ball joint mount to cutting unit castor arm tube (Figure 4).

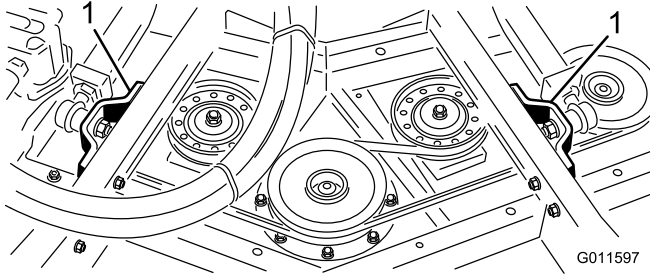


Figure 4

- Lift arm ball joint mount (2)

- Move mower deck away from traction unit.
- Slide new mower deck into position and mount it to traction unit by reversing procedure.

Replace Side Mower Deck

- Remove hairpin cotter and clevis pin securing height of cut link to height of cut bracket on deck (Figure 5).

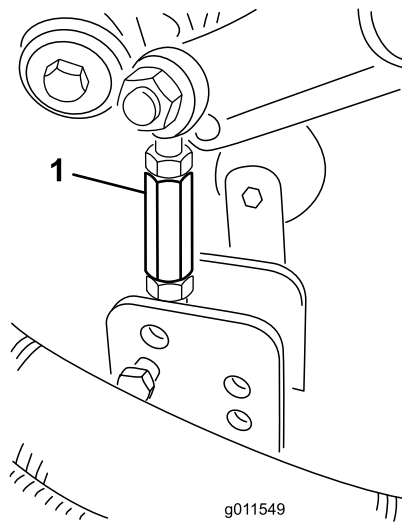


Figure 5

- Height of cut link

- Remove (8) bolts, washers and locknuts securing lift arm mount to mower deck brackets (Figure 6).

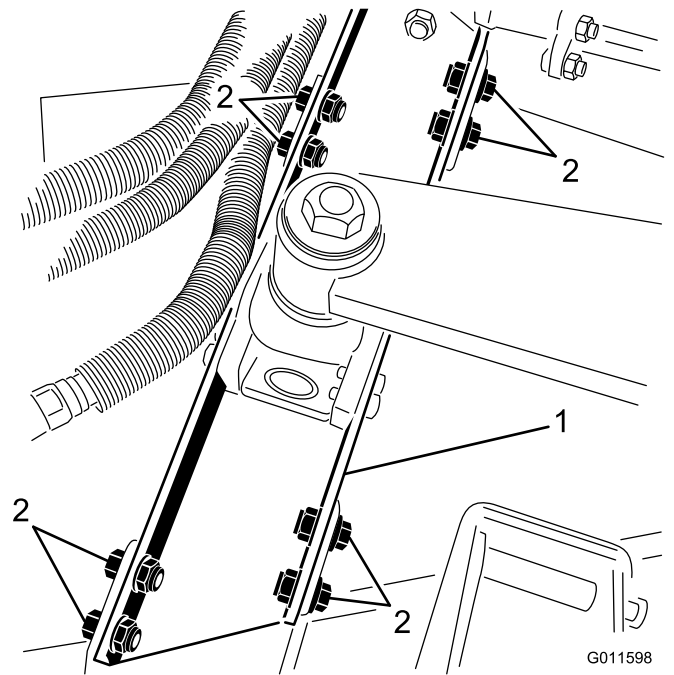


Figure 6

- Lift arm mount
- Mounting bolts, washers & locknuts (8)

- Move mower deck away from traction unit.
- Slide new mower deck into position and mount it to traction unit by reversing procedure.
- Check deck alignment to traction unit as follows:
 - Make sure the machine is on a level hard surface.
 - Place a square or straight edge against the deck weldment that contains the castor fork assembly (Figure 7). Do not use the caster fork assembly itself.

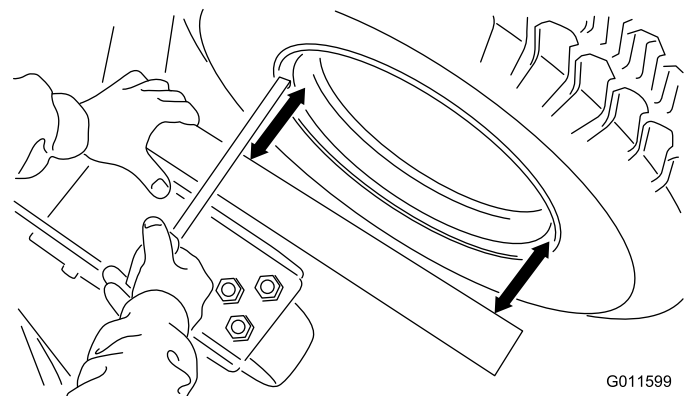


Figure 7

- Measure from the inset bead of the rim (not the outer edge of the rim) to the straight edge at two locations as indicated in Figure 7. Rim and paint irregularities make the outer edge an unreliable point of measure. These two measurements

should be the same within a tolerance of 1/8 inch (3 mm).

- D. If misalignment is detected, loosen the jam nut on the rod-end of the wing deck shock arm assembly (Figure 8). Adjust coupler to correct, which will freely rotate inside the shock absorption tube. All adjustments must be made with the rod end of the shock arm bolted to the deck.

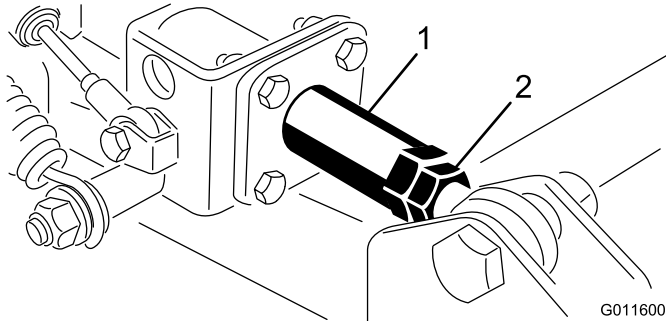


Figure 8

1. Coupler

2. Jam nut

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- E. Raise and lower the deck and recheck dimensions for correct alignment. Tighten jam nut to 114 ft-lbs. (155 N-m) on the shock arm assembly.

Note: Due to differences in grass conditions and the counterbalance setting of traction unit, it is advised that grass be cut and appearance checked before formal cutting is started. Refer to Operator's Manual for deck leveling procedures.



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:

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.

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.

- 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