Form No. 3395-378 Rev A

TORO®

Count on it.

Operator's Manual

Combination Deck

Versa Vac

Model No. 07082—Serial No. 315000001 and Up

Register at www.Toro.com.
Original Instructions (EN)

CE

3395-378 A

This product complies with all relevant European directives. For details, please see the separate product specific Declaration of Conformity (DOC) sheet.

⚠ 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.

Introduction

The Combination Deck is to be used in conjunction with the Versa Vac. The machine is intended to be used by professional, hired operators in commercial applications. The primary function of the machine is to facilitate dethatching, renovation and debris removal from large turf areas in one pass.

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 safety and operation training materials, 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. 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.

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Safety

Improperly using or maintaining the machine can result in injury. To reduce the potential for injury, comply with these safety instructions and always pay attention to the safety alert symbol, which means Caution, Warning, or Danger—personal safety instruction. Failure to comply with the instruction may result in personal injury or death.

Safe Operating Practices

Training

- Read the *Operator's Manual* and other training material carefully. If the operator(s) or mechanic(s) cannot read or understand the information, it is the owner's responsibility to explain this material to them.
- Become familiar with the safe operation of the equipment, operator controls, and safety signs.
- All operators and mechanics should be trained. The owner is responsible for training the users.
- Never let children or untrained people operate or service the equipment. Local regulations may restrict the age of the operator.
- The owner/user can prevent and is responsible for accidents or injuries to people or damage to property.

Preparation

- Evaluate the terrain to determine what accessories and attachments are needed to properly and safely perform the job. Only use accessories and attachments approved by the manufacturer.
- Wear appropriate clothing including hard hat, safety glasses, ear protection, long pants, and substantial, slip-resistant footwear.. Long hair, loose clothing, or jewelry may get tangled in moving parts.
- Inspect the area where you will use the equipment and remove all objects such as rocks, toys, and wire that can be thrown by the machine.
- Use extra care when handling gasoline and other fuels. They are flammable and vapors are explosive.
  - Use only an approved container.
  - Never remove the fuel cap or add fuel with the engine running; allow the engine to cool before refueling.
  - Do not smoke.
  - Never refuel or drain the machine indoors.
- Ensure that the operator's presence controls, safety switches, and shields are attached and functioning properly. Do not operate the machine unless they are functioning properly.

Operation

- This product may exceed noise levels of 85 dB(A) at the operator position. Hearing protection is recommended for prolonged exposure to reduce the potential of permanent hearing damage.
- Using the machine demands attention. Do the following to prevent loss of control:
  - Operate only in daylight or when there is good artificial light.
  - Drive slowly and watch for holes or other hidden hazards.
  - Do not drive close to a sand trap, ditch, creek, or other hazard.
  - Reduce your speed when making sharp turns and when turning on hillsides.
  - Avoid sudden starts and stops.
  - Before backing up, look to the rear and ensure that no one is behind the machine.
  - Watch for traffic when near or crossing roads. Always yield to the right-of-way.
- The rubber fingers and flail knives pick up and propel debris and small objects in its path during operation. Always wear eye and head protection to avoid possible injury from flying objects, and keep children, pets, and bystanders away from the area of operation.
- Never carry passengers on the machine or allow anyone to ride in the trailer.
- Do not step over the PTO shaft to get to the other side of the machine. Walk around the machine.
- Never get on or off the machine with the PTO shaft engaged.
- Always stand to the extreme right or left side of the machine when opening the rear door.
- Stop operation when a person or pet appears unexpectedly in or near the operating area. Careless operation, terrain angles, ricochets, or improperly positioned guards can cause thrown-object injuries. Do not resume operation until the area is clear.
- Lightning can cause severe injury or death. If you see lightning or hear thunder in the area, do not operate the machine; seek shelter.

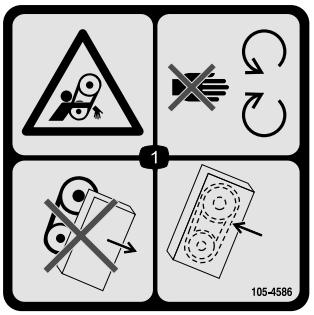
Maintenance and Storage

- Remove the key from the ignition switch to prevent accidental starting of the engine when servicing, adjusting, or storing the machine.
- Perform only the maintenance instructions described in this manual. If the machine needs major repairs or you desire assistance, contact an Authorized Toro Distributor.
- Ensure that the machine is in safe operating condition by keeping nuts, bolts, and screws tight. Check all bolts and nuts frequently to ensure that they are tightened to specification.

- Ensure that all hydraulic line connectors are tight, and all hydraulic hoses and lines are in good condition before applying pressure to the system.
- Keep body and hands away from pin-hole leaks or nozzles that eject hydraulic fluid under high pressure. Use paper or cardboard, not hands, to search for leaks. Hydraulic fluid escaping under pressure can have sufficient force to penetrate skin and cause serious injury. If fluid is ejected into the skin, it must be surgically removed within a few hours by a doctor familiar with this form of injury or gangrene may result.
- Before disconnecting or performing any work on the hydraulic system, stop the engine and lower the implement to the ground to relieve all pressure in the system.
- To ensure optimum performance and continued safety certification of the machine, use only genuine Toro replacement parts and accessories. Replacement parts and accessories made by other manufacturers could be dangerous, and such use could void the product warranty.

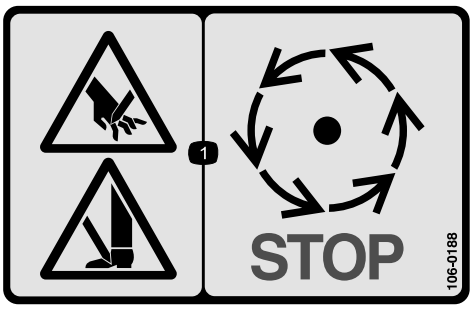
Safety and Instructional Decals

Safety decals and instructions are easily visible to the operator and are located near any area of potential danger. Replace any decal that is damaged or lost.



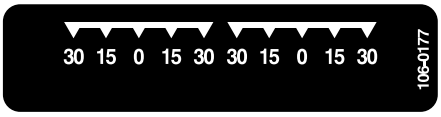
105-4586

1. Entanglement hazard, belt—stay away from moving parts. Do not operate the machine with the shields or guards removed; keep the shields and guards in place.



106-0188

1. Cutting hazard of hand or foot—wait for moving parts to stop.



106-0177



106-0178

Setup

Loose Parts

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

Procedure	Description	Qty.	Use
1	Tow arm Clevis pin Cotter pin	2 2 2	Mount the tow arms.
2	Washer Hairpin cotter Clevis pin	2 4 2	Mount the combination deck.
3	No parts required	–	Check the tire pressure.

1

Mounting the Tow Arms

Parts needed for this procedure:

2	Tow arm
2	Clevis pin
2	Cotter pin

Procedure

Mount the tow arms to the front of the deck with the 2 clevis pins and 2 cotter pins.

Note: Position the tow arms as shown in Figure 2.

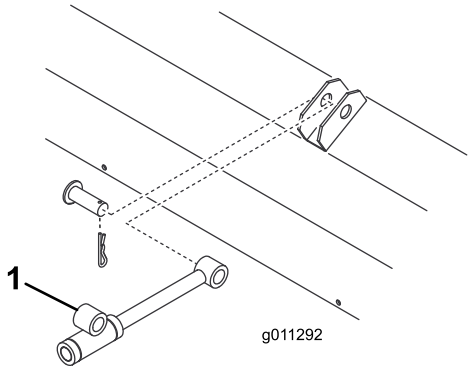


Figure 2

1. Tow arm

2

Mounting the Combination Deck

Parts needed for this procedure:

2	Washer
4	Hairpin cotter
2	Clevis pin

Procedure

1. Roll the deck under the machine.

   Note: Make sure that the flail is positioned toward the front of the machine.

2. Slide the tow arms onto the frame pins. Secure each tow arm to the frame pin with a washer and hairpin cotter (Figure 3).

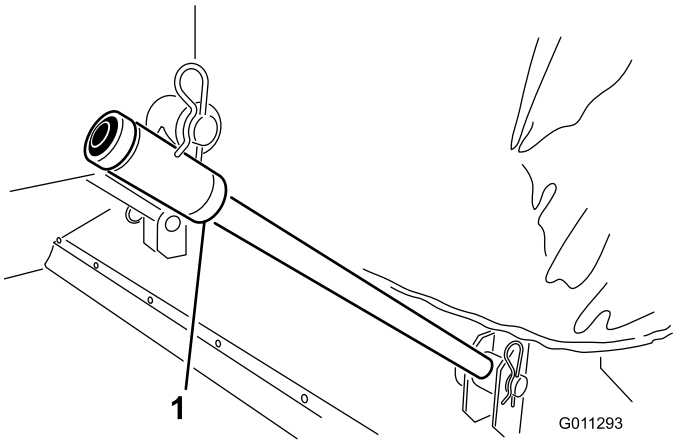


Figure 3

1. Tow arm

3. Connect each lift chain to a deck bracket with a clevis pin and hairpin cotter (Figure 4).

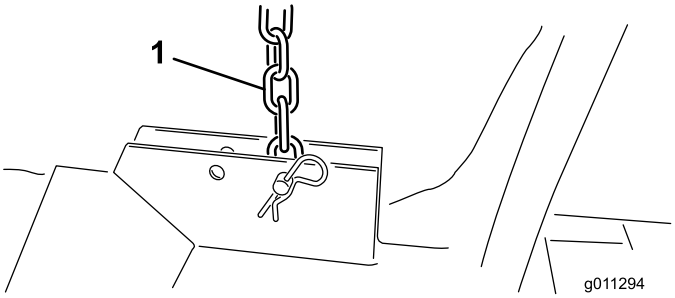


Figure 4

1. Lift chain

4. Install the canvas ring around the lip on the machine and deck openings (Figure 5).

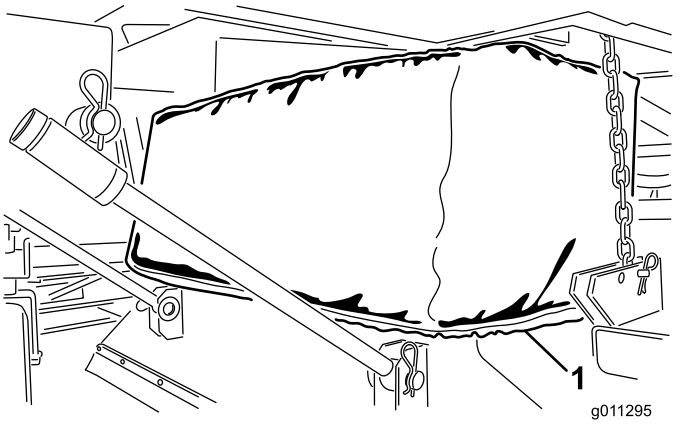


Figure 5

1. Canvas ring

5. Connect the hydraulic motor hose quick couplers to the machine couplers as shown in Figure 5.

   Note: Verify that the fingers rotate clockwise (as viewed from the motor end of the deck).

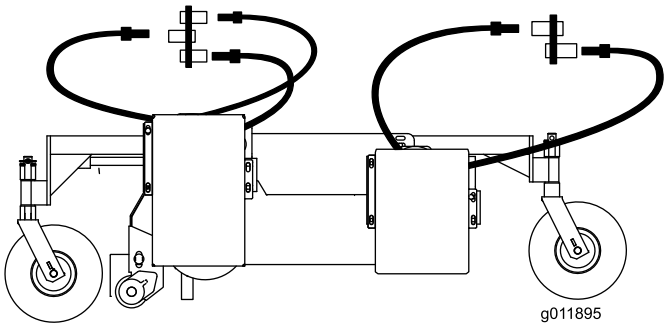


Figure 6

Note: If the deck is not level when you raise it, reposition the lift chain in another mounting hole in the bracket.

3

Checking the Tire Pressure

No Parts Required

Procedure

The correct tire pressure for the castor wheels is 207 kPa (30 psi).

Product Overview

Specifications

Deck width	198 cm (78 inch)
Deck height	51 cm (20 inch)
Net weight	327 kg (720 lb)

Attachments/Accessories

A selection of Toro approved attachments and accessories is available for use with the machine to enhance and expand its capabilities. Contact your Authorized Service Dealer or Distributor or go to www.Toro.com for a list of all approved attachments and accessories.

Operation

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

Adjusting the Operating Height

The operating height is set at the factory for 13-mm (1/2 inch) high grass. You can adjust it from 13 to 76 mm (1/2 to 3 inches) by repositioning the castor-wheel spacers and relocating the capscrews that secure the castor beams to the height-adjustment plates.

1. Remove the capscrews, washers, and nuts securing a castor-assembly beam to the height-adjustment plates (Figure 7).

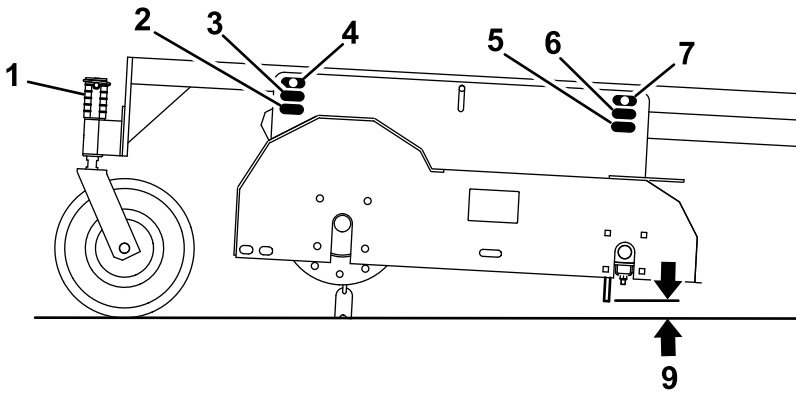


Figure 7

1. Grass height
2. Front castor
3. Front slots
4. Rear slots
5. Rear castor

2. Use the following table to determine which front and rear slots to use.

Front Castor	Height of cut	Back Castor
Set the deck at the **top** front slot and the **top** rear slot.		
2 spacers (1/2 inch)	13 mm (1/2 inch)	1 spacer (1/2 inch)
1 spacer (1/2 inch)	25 mm (1 inch)	3 spacers (1/2 inch)
1 spacer (1/4 inch)	38 mm (1-1/2 inch)	5 spacers (1/2 inch)
Set the deck at the **top** front slot and the **middle** rear slot.		
1 spacer (1/8 inch)	51 mm (2 inch)	4 spacers (1/2 inch) and 1 spacer (1/4 inch)
Set the deck at the **top** front slot and the **bottom** rear slot.		
No spacers	64 mm (2-1/2 inch)	4 spacers (1/2 inch)
No spacers	76 mm (3 inch)	5 spacers (1/2 inch) and 1 spacer (1/4 inch)

3. Use the front and rear slots to secure the castor-assembly beam to the height-adjustment plate

with the capscrews, washers, and nuts previously removed.

Note: Position the washers outside the height-adjustment plates.

4. Repeat the procedure for the opposite side of the deck.

Note: Make sure that both castor assemblies are mounted at the same height.

5. Remove the clevis pin from the spindle shaft (Figure 8).

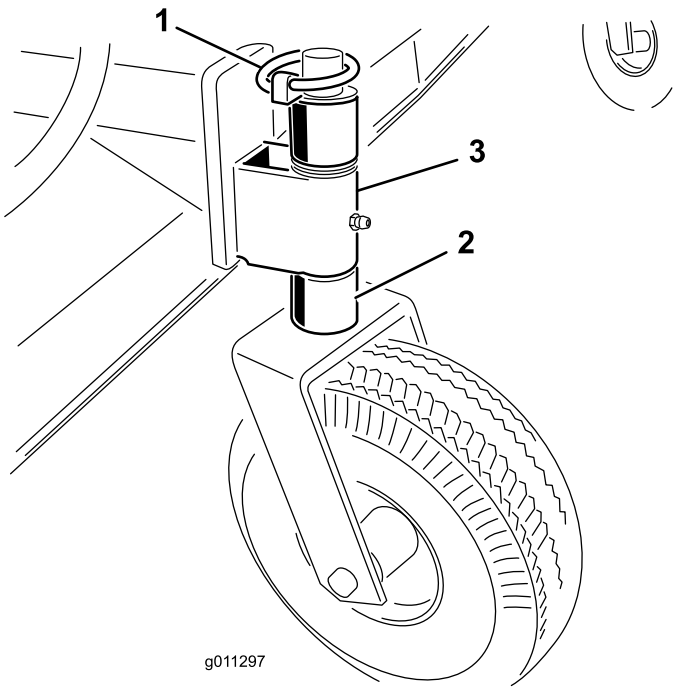


Figure 8

1. Clevis pin
2. Spacer
3. Castor arm

6. Remove or add C-shaped spacers to the spindle shaft, below the castor arm, to achieve the desired height (see table and Figure 8).
7. Place all remaining spacers on the spindle shaft above the castor arm.
8. Install the clevis pin to secure the assembly.
9. Repeat the procedure on the remaining castors.

Cleaning the Machine

After each use, thoroughly clean and wash the deck. After cleaning, inspect the machine for possible damage to mechanical components.

Operating Tips

- Before operating the machine, survey the area to determine the best direction to operate.
- Test the performance of the machine before operating on formal turf. Adjust the operating height as desired.
- To maintain a straight line during operation, sight off an object in the foreground.
- Always try to make a long, continuous run with a slight overlap on the return run.
- On turf areas, the deck will pick up twigs, clippings, leaves, pine needles, pine cones, and small debris.

Important: Do not make sharp turns when using the machine as damage to turf may occur.

Important: Do not operate the machine while the rotor is turning and in the raised position.

Maintenance

Greasing the Machine

Service Interval: After each use

The deck has 12 grease fittings that must be lubricated regularly with a No. 2 general-purpose, lithium-based grease.

The grease fitting locations and quantities are as follows:

- Caster wheels (2 each) (Figure 9)
- Rotor bearings (4 each) (Figure 10)

Important: Lubricating the machine immediately after washing helps purge water out of the bearings and increases bearing life.

1. Wipe each grease fitting with a clean rag.
2. Apply grease until clean grease is seen coming out of the bearing seals.
3. Wipe excess grease away.

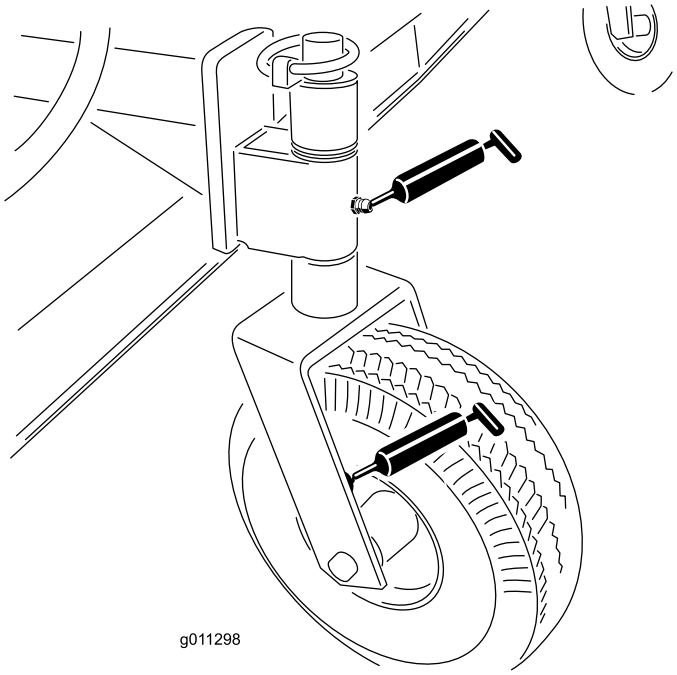


Figure 9

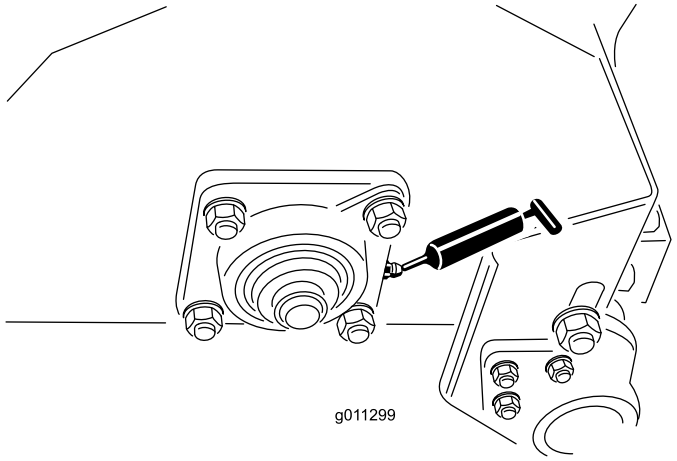


Figure 10

Adjusting the Drive Belts

Service Interval: After the first 20 hours—Check and adjust the drive belt.

Make sure the belts are properly tensioned to ensure proper operation of the machine and unnecessary wear. If a belt squeals or slips, tighten it as follows:

1. Remove the fasteners securing the motor shield to the deck frame (Figure 11). Remove the shield.

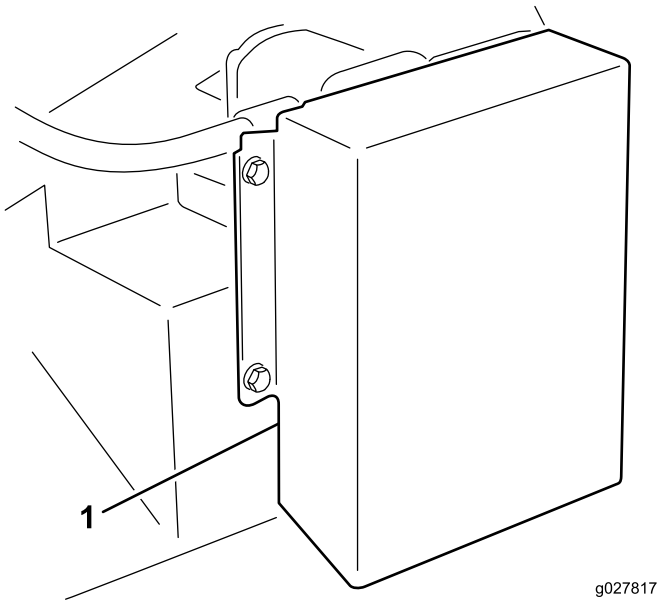


Figure 11

1. Drive shield

2. On back side of the frame, loosen the bolt securing the belt tensioner to the frame (Figure 12).

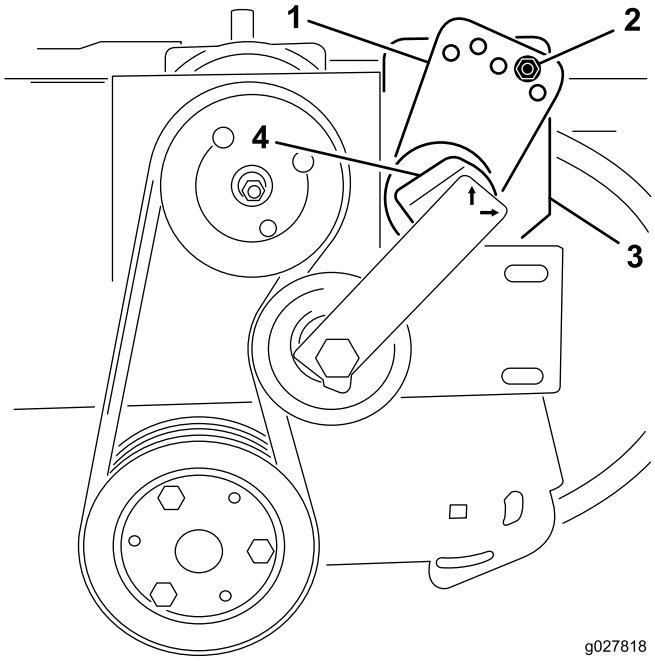


Figure 12

1. Tensioner guide
2. Bolt and nut
3. Bolt (back of frame)
4. Tensioner

3. Remove the bolt and nut securing the tensioner guide to the drive mount (Figure 12).

   Note: Removing the bolt will release the belt tension.

4. Using a large wrench, rotate the tensioner clockwise until the decal is aligned with 15 degrees on the tensioner tube.
5. Insert the bolt into the aligned guide holes and secure it with the nut.

   Note: If holes are not exactly aligned, rotate the guide to the next higher hole until aligned.

6. Tighten the bolt on the back side of the frame to lock the tensioner.
7. Install the motor shield with the fasteners previously removed..

Replacing the Finger Belts

1. Loosen the nuts and washers securing the finger pinchers to the rotor (Figure 13 and Figure 14).
2. Remove the old belt fingers.
3. Install new belt fingers (Figure 13 and Figure 14).

   Note: Belt fingers extend from finger pinchers approximately 10 cm (4 inches).

4. Tighten the nuts securing the fingers.

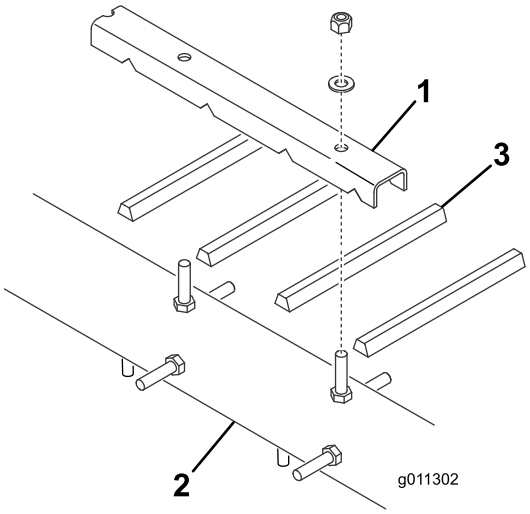


Figure 13

1. Finger pincher
2. Rotor
3. Belt finger

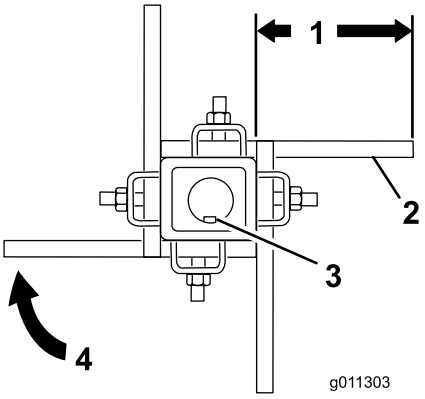


Figure 14

1. Approximately 10 cm (4 inches)
2. Flat side of the belt
3. Keyed shaft
4. Brush rotation

Replacing the Flail Knives

Reverse or replace the flail knives when the edges become curved from wear.

1. Remove the roll pin securing the mounting pin to the flail rotor (Figure 15).
2. Slide the mounting pin from the rotor, allowing you to remove the flail knives and spacers.
3. Inspect the spacers and mounting pins for wear. Replace as necessary.
4. Assemble the flail knives as follows (Figure 15).
   A. Starting at the end of the rotor, assemble a spacer and a flail knife, with hanger, and then assemble 3 more spacers (Figure 15).
   B. Continue this pattern until the pin is full; secure the mounting pin to the rotor with the roll pin.

Note: Count the rotor flange as a spacer.

C. Rotate the rotor 90 degrees and continue the assembly for the next section.

Note: Each section contains 4 flail knives, 4 knife hangers, and 10 spacers.

D. After completing the full length of the rotor, repeat the procedure on the opposite side of the rotor.

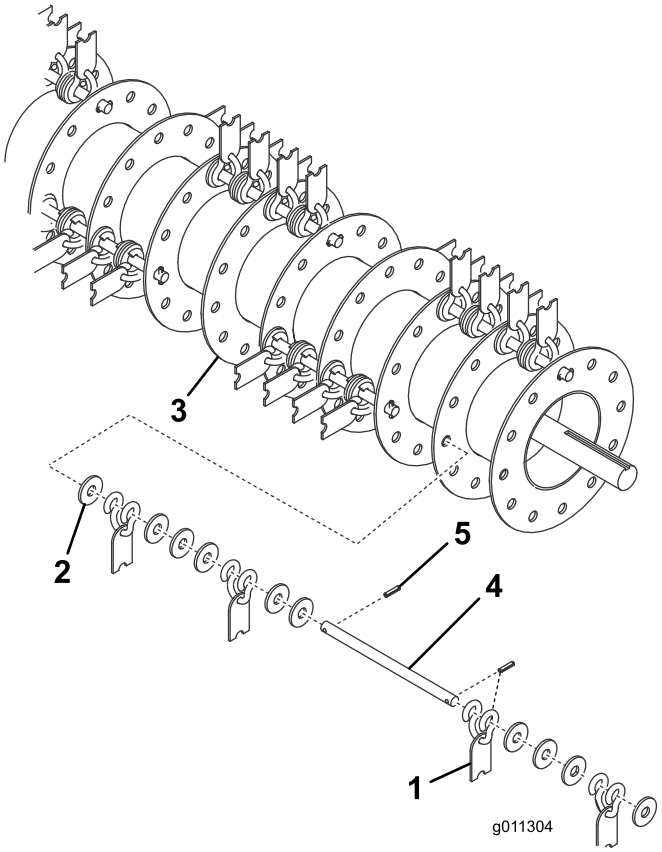


Figure 15

Notes:

Notes:

Notes:

Declaration of Incorporation

The Toro Company, 8111 Lyndale Avenue 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
07082	315000001 and Up	Combination Deck, Versa Vac	COMBINATION DECK	Vacuum Deck Attachment	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
February 26, 2015

EU Technical Contact:

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Fax 0032 14 581911

Toro General Commercial Product 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.

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