



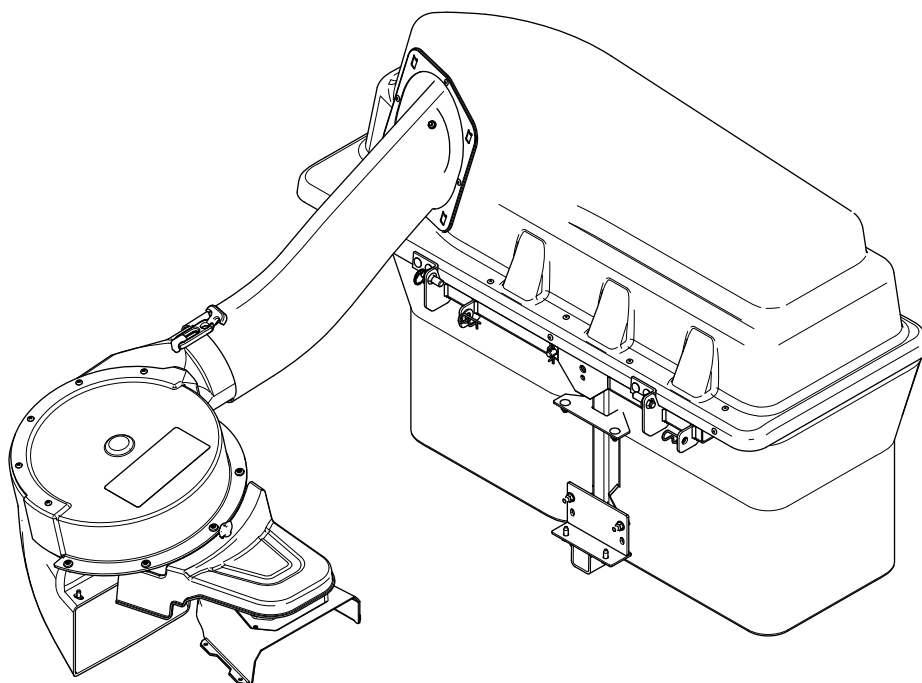
Count on it.

Form No. 3414-381 Rev A

Operator's Manual

E-Z Vac™ Complete Twin Bagger TimeCutter® HD Riding Mower

Model No. 79345—Serial No. 400000000 and Up



⚠ 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.



Figure 2

g000502

1. Safety-alert symbol

This manual uses 2 words to highlight information.

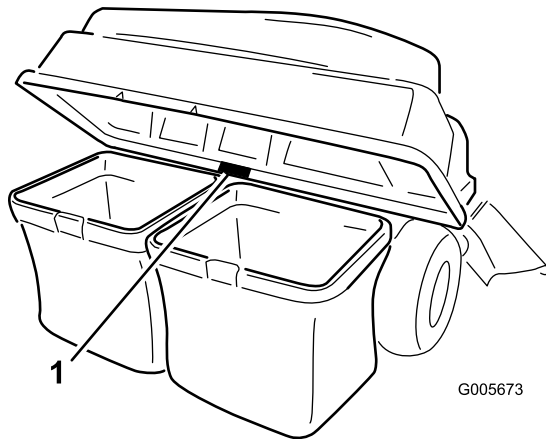
Important calls attention to special mechanical information and **Note** emphasizes general information worthy of special attention.

Introduction

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 and 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. Figure 1 identifies the location of the model and serial numbers on the product. Write the numbers in the space provided.



G005673

g005673

Figure 1

1. Model and serial number location

Model No. _____

Serial No. _____

This manual identifies potential hazards and has safety messages identified by the safety-alert symbol (Figure 2), which signals a hazard that may cause serious injury or death if you do not follow the recommended precautions.

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Safety

⚠ WARNING

When the bagger is in operation, the blower is rotating and can cut off or injure hands and fingers.

- Before adjusting, cleaning, repairing, and inspecting the blower, and before unclogging the chute, shut off the engine and wait for all moving parts to stop. Remove the key.
- Use a stick, not your hands, to remove an obstruction from the blower and tube.
- Keep hands and feet away from moving parts. Do not make adjustments with the engine running.

⚠ WARNING

Debris, such as leaves, grass, or brush can catch fire. A fire in the engine area can cause personal injury and property damage.

- Keep the engine and muffler area free of debris accumulation.
- Take care when opening the bagger cover to keep debris from falling onto the engine and muffler area.
- Allow the machine to cool before storing it.

The following list contains safety information specific to Toro products and other safety information you must know.

- Become familiar with the safe operation of the equipment, with the operator controls, and safety signs.
- Use extra care with grass catchers or other attachments. These can change the operating characteristics and the stability of the machine.
- Follow the recommendations for adding or removing weights as described in the *Operator's Manual* for the machine.
- Do not use a grass catcher on steep slopes. A heavy grass catcher could cause loss of control or overturn the machine.
- Slow down and use extra care on hillsides. Mow slopes side to side. Turf conditions can affect the stability of the machine. Use extreme caution while operating near drop-offs.
- Keep all movement on slopes slow and gradual. Do not make sudden changes in speed, directions, or turning.
- The grass catcher can obstruct the view to the rear. Use extra care when operating the machine in reverse.

- Use care when loading or unloading the machine into a truck or trailer.
- Do not use the mower deck without the discharge deflector or grass catcher.
- Park the machine on a level surface, disengage the drives, engage the parking brake, and shut off the engine before leaving the operator's position for any reason including unclogging or emptying the grass catcher.
- If you remove the grass catcher, install any discharge deflector or guard that was removed to install the grass catcher. Do not operate the machine without either the entire grass catcher or the grass deflector in place.
- Do not leave grass in the grass catcher for extended periods of time.
- Grass catcher components are subject to wear, damage, and deterioration, which could expose moving parts or allow objects to be thrown. Frequently check components and replace them with manufacturer's recommended parts when necessary.

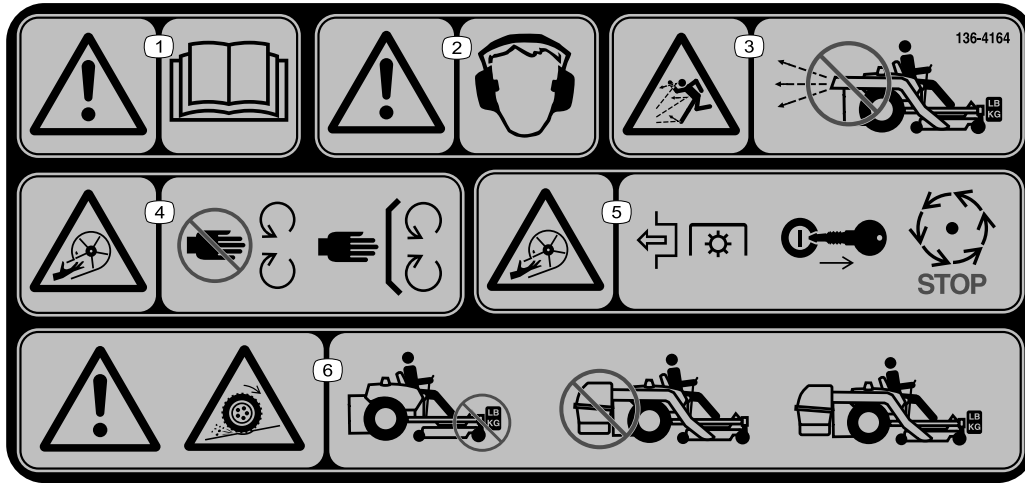
Towing Safety

- Do not attach towed equipment except at the hitch point.
- Follow the attachment manufacturer's recommendation for weight limits for towed equipment and towing on slopes.
- Never allow children or others in or on towed equipment.
- On slopes, the weight of the towed equipment may cause loss of traction and loss of control. Reduce towed weight and slow down.
- Stopping distance increases with the weight of the towed load. Travel slowly and allow extra distance to stop.
- Make wide turns to keep the attachment clear of the machine.
- Do not tow a load that weighs more than the towing machine.

Safety and Instructional Decals



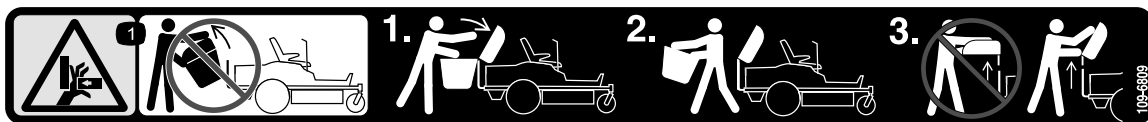
Safety decals and instructions are easily visible to the operator and are located near any area of potential danger. Replace any decal that is damaged or missing.



136-4164

decal136-4164

1. Warning—read the *Operator's Manual*.
2. Warning—hearing protection must be worn.
3. Thrown object hazard—do not operate the blower without the entire system installed and latched.
4. Cutting/dismemberment hazard, impeller—keep away from moving parts; keep all guards and covers in place.
5. Cutting/dismemberment hazard, impeller—disengage the PTO, remove the key, and wait for all moving parts to stop.
6. Warning; loss of traction—do not operate with only counterbalance weights installed; do not operate with only E-Z Vac installed; operate only with both E-Z Vac and counterbalance weights installed.



109-6809

decal109-6809

1. Crushing hazard of hand—Do not remove the whole bagger from the machine. Step 1: Open the bagger top. Step 2: Remove the bag(s) from the bagger. Step 3: Do not remove the bagger top when it is closed; open the bagger top and then remove it.

Setup

Loose Parts

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

Procedure	Description	Qty.	Use
1	No parts required	–	Prepare the machine.
2	Weight tray Left weight-tray mount Right weight-tray mount Suitcase weight—16 kg (35 lb) Retaining rod Bolt (3/8 x 1-1/4 inches) Flange nut (3/8 inch) Carriage bolt (3/8 x 1 inch) Self-tapping bolt (5/16 x 3/4 inch)	1 1 1 1 1 2 4 2 2	Install the weight.
3	No parts required	–	Remove the grass deflector and belt cover.
4	Blower support Hex washer-head screw (3/8 x 3/4 inch) Baffle Carriage bolt (5/16 x 3/4 inch) Flange nut (5/16 inch)	1 2 1 4 4	Install the baffle and blower support.
5	Pulley assembly Belt cover	1 1	Install the pulley assembly and belt cover.
6	Stabilizer bracket Carriage bolt (5/16 x 3/4 inch) Locknut (5/16 inch) Self-tapping screw (5/16 x 3/4 inch) Bolt (5/16 x 1 inch) Pivot frame Hairpin cotter Rod Washer	1 2 4 2 2 1 2 2 2	Install the attachment mount.
7	Latch rod Hairpin cotter	1 1	Install the latch rod.
8	Bagger top Bagger screen Hairpin cotter	1 1 2	Assemble the bagger top.
9	Grass Bag	2	Install the bagger top.
10	Blower assembly	1	Install the blower assembly.
11	Powered bagger cover Blower belt	1 1	Install the blower belt and powered bagger cover.
12	Upper tube Screw (1/4 x 3/4 inches) Washer (1/4 inch) Locknut (1/4 inch) Lower tube	1 2 2 2 1	Install the discharge tubes.

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

1

Preparing the Machine

No Parts Required

Procedure

Perform the following procedure to prepare the machine for attaching the blower and finishing kit.

1. Park the machine on a level surface.
2. Disengage the blade-control switch, engage the parking brake, and move the motion-control levers outward to the NEUTRAL-LOCK position.
3. Shut off the engine and remove the key.
4. Ensure that the machine is secure from movement before you begin to work on it.
5. Repair all bent or damaged areas of machine deck and replace any missing parts.
6. Clean the machine of any debris on the machine deck or rear part of the machine to ease installation.

2

Installing the Weight

Parts needed for this procedure:

1	Weight tray
1	Left weight-tray mount
1	Right weight-tray mount
1	Suitcase weight—16 kg (35 lb)
1	Retaining rod
2	Bolt (3/8 x 1-1/4 inches)
4	Flange nut (3/8 inch)
2	Carriage bolt (3/8 x 1 inch)
2	Self-tapping bolt (5/16 x 3/4 inch)

Procedure

⚠ CAUTION

The bagger changes the weight distribution of the machine. Operating the machine without the front weights may cause an unstable condition, which could result in a loss of control.

Ensure the front weights are properly installed before operating the machine with the bagger attachment.

1. Remove the existing bolt and nut from the left and right side of the platform where you will install the weight-tray mounts.
2. Use the 2 self-tapping bolts (5/16 x 3/4 inch), 2 bolts (3/8 x 1-1/4 inches), and flange nuts (3/8 inch) to secure the left and right weight-tray mounts to the machine ([Figure 3](#)).

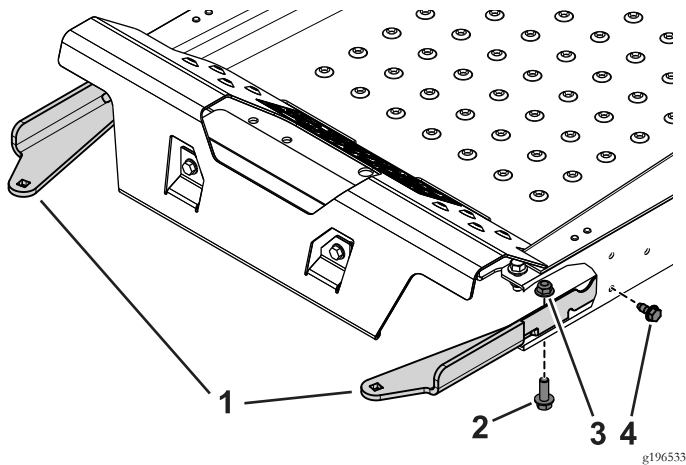


Figure 3
Cutaway view

- | | |
|------------------------------|--|
| 1. Weight-tray mounts | 3. Flange nut (3/8 inch) |
| 2. Bolt (3/8 x 1-1/4 inches) | 4. Self-tapping bolt (5/16 x 3/4 inch) |

3. Use the 2 carriage bolts (3/8 x 1 inch) and flange nuts to secure the weight tray to the mounts (Figure 4).

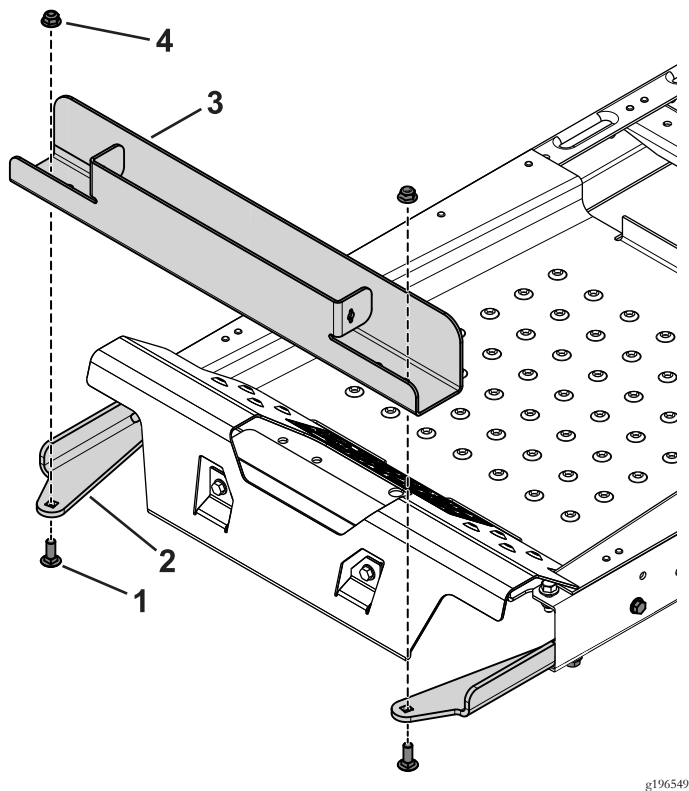


Figure 4

- | | |
|---------------------------------|--------------------------|
| 1. Carriage bolt (3/8 x 1 inch) | 3. Weight tray |
| 2. Weight-tray mount | 4. Flange nut (3/8 inch) |

4. Insert the suitcase weight into the weight tray with the groove side facing toward the front of the machine (Figure 5).

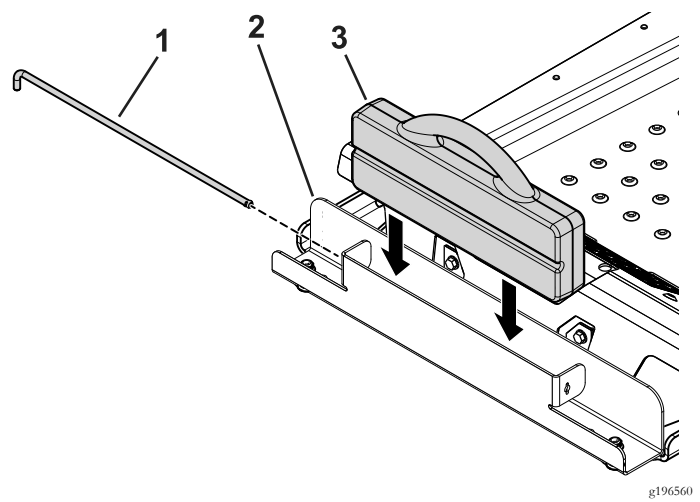


Figure 5

- | | |
|------------------|--------------------|
| 1. Retaining rod | 3. Suitcase weight |
| 2. Weight tray | |

5. Insert the retaining rod into the tray and rotate it into the locked position (Figure 5).

Important: Remove the suitcase weight whenever you remove the bagger attachment.

3

Removing the Grass Deflector and Belt Cover

No Parts Required

Procedure

⚠ WARNING

An uncovered discharge opening could allow the lawn mower to throw objects in the operator's or bystander's direction and result in serious injury. Also, contact with the blade could occur.

Never operate the lawn mower unless you install a mulch plate, discharge deflector, or grass-collection system.

Inspect the grass deflector for damage before each use. Replace any damaged parts before use.

1. Disengage the spring from the notch in the deflector bracket and remove the cotter pin (international models only), slide the rod out of the welded deck brackets, spring, and discharge deflector (Figure 6).

4

Installing the Baffle and Blower Support

Parts needed for this procedure:

1	Blower support
2	Hex washer-head screw (3/8 x 3/4 inch)
1	Baffle
4	Carriage bolt (5/16 x 3/4 inch)
4	Flange nut (5/16 inch)

Procedure

1. Install the blower support to the mower deck using 2 hex washer-head screws (3/8 x 3/4 inch) as shown in [Figure 8](#).

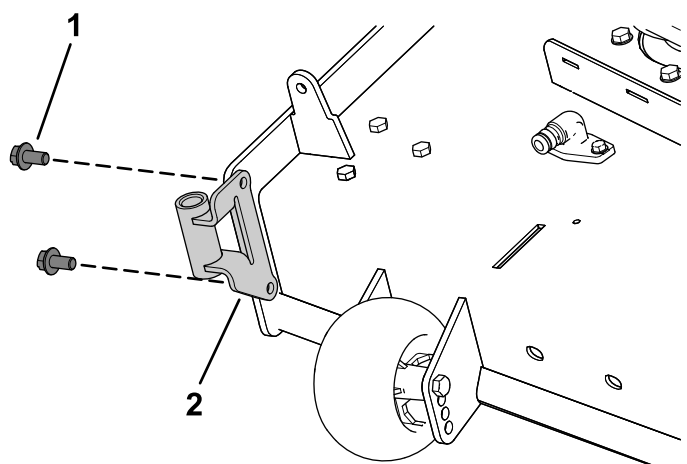


Figure 8

1. Hex washer-head screw (3/8 x 3/4 inch)
2. Blower support

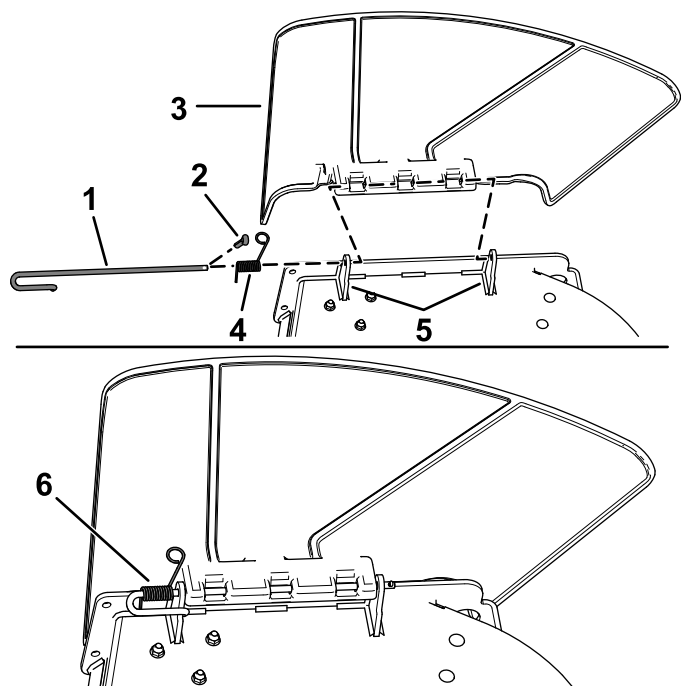


Figure 6

1. Rod
2. Cotter pin (international models only)
3. Deflector
4. Spring
5. Deck brackets
6. Spring installed over the rod

2. Remove the deflector ([Figure 6](#)).
3. Remove the 4 screws (1/4 x 1/2 inch) securing the right belt cover, and remove the belt cover ([Figure 7](#)).

Note: Retain the 4 screws (1/4 x 1/2 inch) for installation in Procedure [5 Installing the Pulley Assembly, Belt Cover, and Shoulder Bolt](#) (page 10).

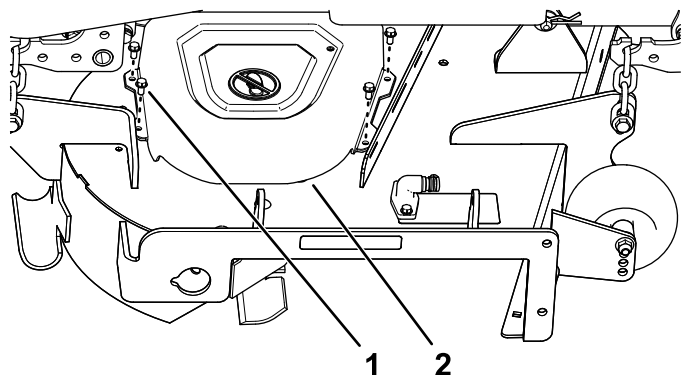


Figure 7

1. Screw (1/4 x 1/2 inch)
2. Belt cover

2. Remove the existing bolt and nut from the mower deck (Figure 9).

Important: For 48-inch and 60-inch mower decks, there is only one bolt and nut that you can remove. For 54-inch mower deck, remove the bolt and nut as shown in Figure 9.

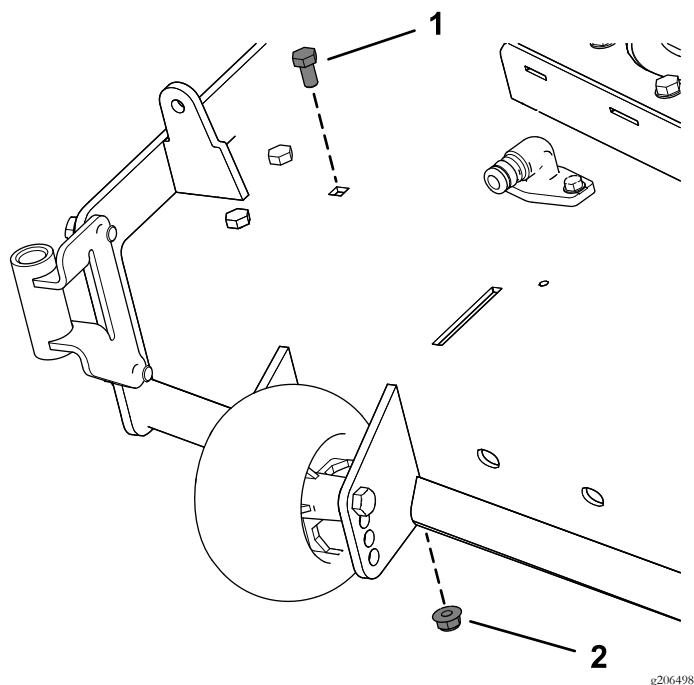


Figure 9

1. Existing bolt
2. Existing nut

3. Install the left side of the baffle using a carriage bolt (5/16 x 3/4 inch) and flange nut (5/16 inch) as shown in Figure 10.
4. Loosen the 2 carriage bolts (5/16 x 3/4 inch) in the baffle slots, and slide the baffle until the hole aligns with the hole in the mower deck (Figure 10).
5. Install baffle as shown in Figure 10.

Important: Ensure that you use the correct hole for the baffle; refer to Figure 10.

6. Tighten the 2 carriage bolts (5/16 x 3/4 inch) in the baffle slots (Figure 10).

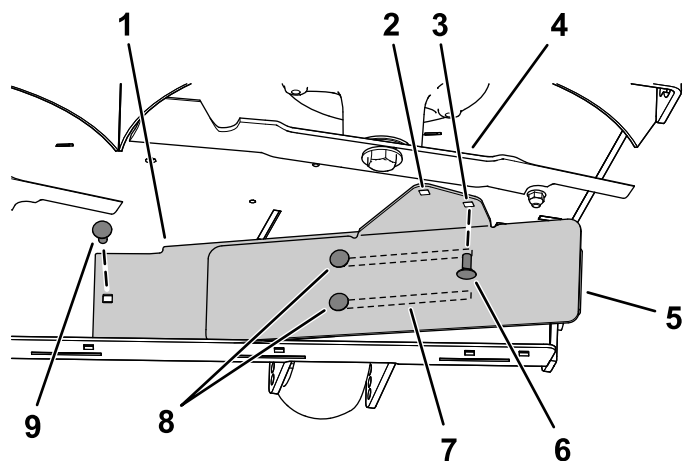


Figure 10

54-inch mower deck shown

1. Inner baffle
2. Hole for **48-inch and 60-inch** mower deck installation.
3. Hole for **54-inch** mower deck installation.
4. Right blade
5. Outer baffle
6. Install this carriage bolt (5/16 x 3/4 inch) and flange nut (5/16 inch) after sliding the baffle.
7. Slots in the baffle
8. Loosen these 2 carriage bolts (5/16 x 3/4 inch) and 2 flange nut (5/16 inch).
9. Install this carriage bolt (5/16 x 3/4 inch) and flange nut (5/16 inch) first.

5

Installing the Pulley Assembly, Belt Cover, and Shoulder Bolt

Parts needed for this procedure:

1	Pulley assembly
1	Belt cover

Procedure

1. Remove the nut and washer from the right mower deck pulley.
2. Install the pulley assembly to the right mower deck pulley with the previously removed nut and washer (Figure 11).

Important: For 48-inch mower decks, use the small blower pulley.

For 54-inch and 60-inch mower decks, use the large blower pulley.

3. Torque the nut to 136 to 149 N·m (100 to 110 ft-lb).

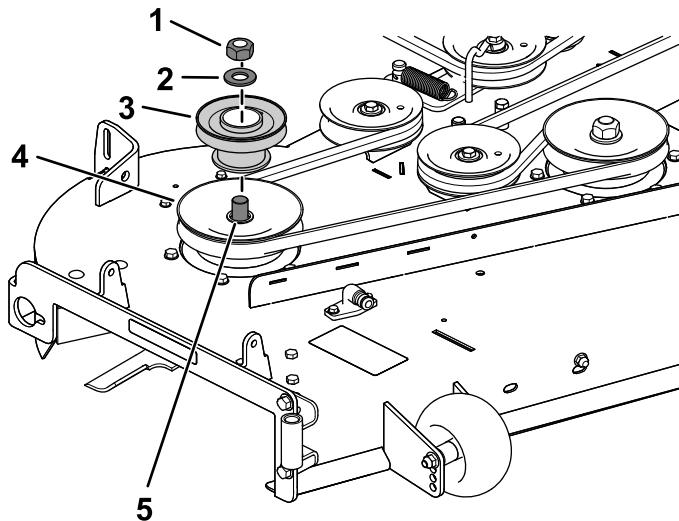


Figure 11

54-inch mower deck shown

- | | |
|------------------------|-----------------------------------|
| 1. Existing pulley nut | 4. Existing deck (spindle) pulley |
| 2. Existing washer | 5. Spindle |
| 3. Blower pulley | |

4. Install the new belt cover over the pulley assembly using the 4 previously removed screws (1/4 x 1/2 inch) as shown in Figure 12.

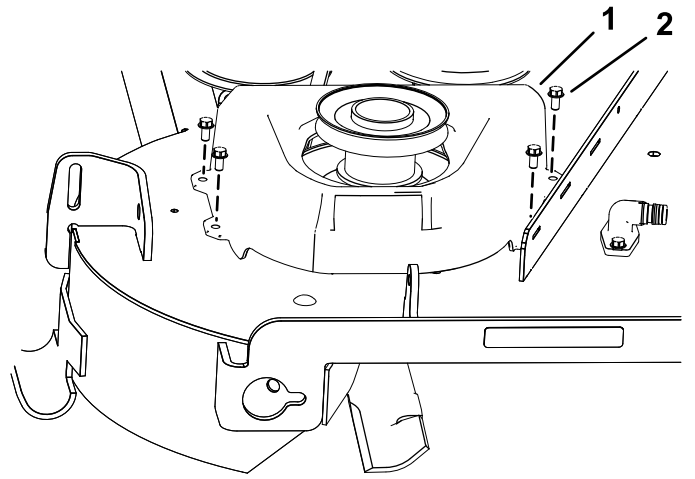


Figure 12

- | | |
|---------------|---------------------------|
| 1. Belt cover | 2. Screw (1/4 x 1/2 inch) |
|---------------|---------------------------|

6

Installing the Attachment Mount

Parts needed for this procedure:

1	Stabilizer bracket
2	Carriage bolt (5/16 x 3/4 inch)
4	Locknut (5/16 inch)
2	Self-tapping screw (5/16 x 3/4 inch)
2	Bolt (5/16 x 1 inch)
1	Pivot frame
2	Hairpin cotter
2	Rod
2	Washer

Procedure

1. Remove the existing 2 bolts, 2 nuts, and hitch bracket from the bottom of the engine guard (Figure 13).

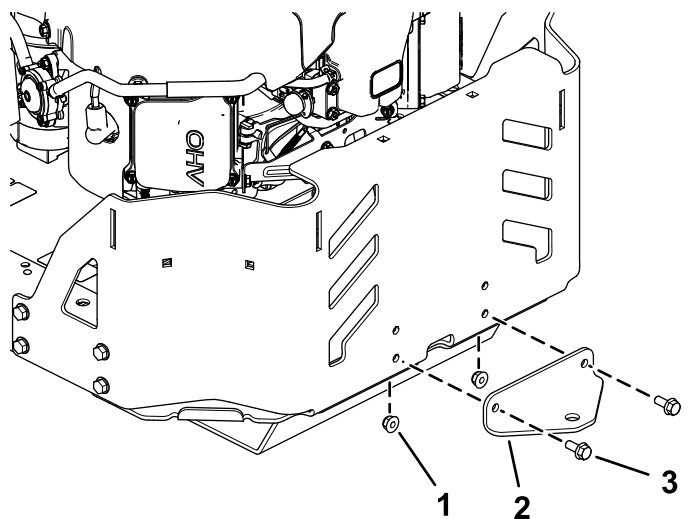


Figure 13

- | | |
|---------------------------|---------|
| 1. Nut | 3. Bolt |
| 2. Existing hitch bracket | |

2. Install the stabilizer bracket to the engine guard using 2 carriage bolts (5/16 x 3/4 inch) and 2 locknuts (5/16 inch) as shown in [Figure 14](#).

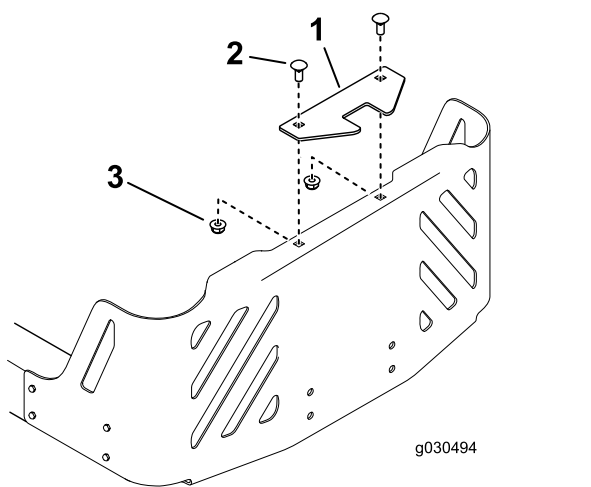


Figure 14

- | | |
|------------------------------------|------------------------|
| 1. Stabilizer bracket | 3. Locknut (5/16 inch) |
| 2. Carriage bolt (5/16 x 3/4 inch) | |

3. Remove the existing 2 self-tapping screws from the bottom of the machine frame ([Figure 16](#)).
4. Loosely install the pivot frame to the machine frame using 2 bolts (5/16 x 1 inch) and 2 locknuts (5/16 inch) as shown in [Figure 15](#).

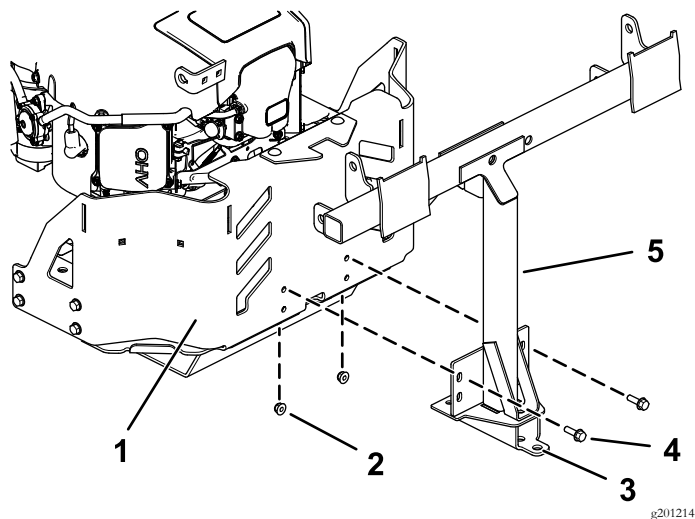


Figure 15

- | | |
|------------------------|-------------------------|
| 1. Machine frame | 4. Bolt (5/16 x 1 inch) |
| 2. Locknut (5/16 inch) | 5. Pivot frame |
| 3. Hole | |

5. Position the pivot frame upward, and secure the pivot frame to the bottom of the machine frame using 2 self-tapping screws (5/16 x 3/4 inch) as shown in [Figure 16](#).

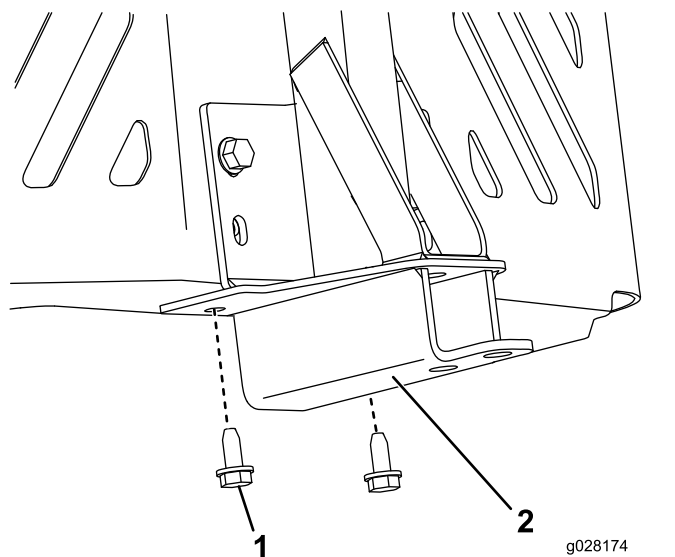


Figure 16

- | | |
|---|----------------|
| 1. Self-tapping screw (5/16 x 3/4 inch) | 2. Pivot frame |
|---|----------------|

6. Tighten the 2 bolts (5/16 x 1 inch) and 2 locknuts (5/16 inch) as shown in [Figure 15](#).
7. Install the bent, flared end of a rod into the keyed slot in the left side of the machine frame, and move the rod rearward to seat it in the frame ([Figure 17](#)).

Note: Repeat this step for the right side of the machine.

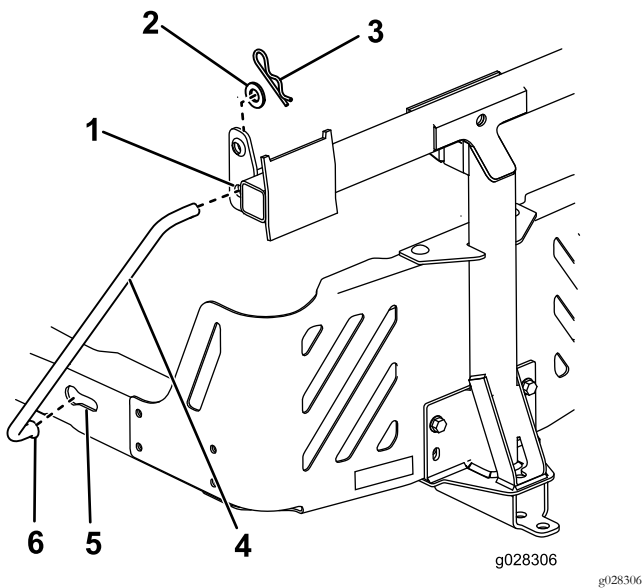


Figure 17
Left side shown

- | | |
|---------------------|--------------------------------|
| 1. Pivot frame hole | 4. Support rod |
| 2. Washer | 5. Keyed slot (existing) |
| 3. Hairpin cotter | 6. Bent, flared end of the rod |

8. Insert the bent ends of the rods into the attachment mount as shown in [Figure 17](#) and secure the end of each rod with a washer and hairpin cotter.

7

Installing the Latch Rod

Parts needed for this procedure:

1	Latch rod
1	Hairpin cotter

Procedure

Install the latch rod with a hairpin cotter ([Figure 18](#)).

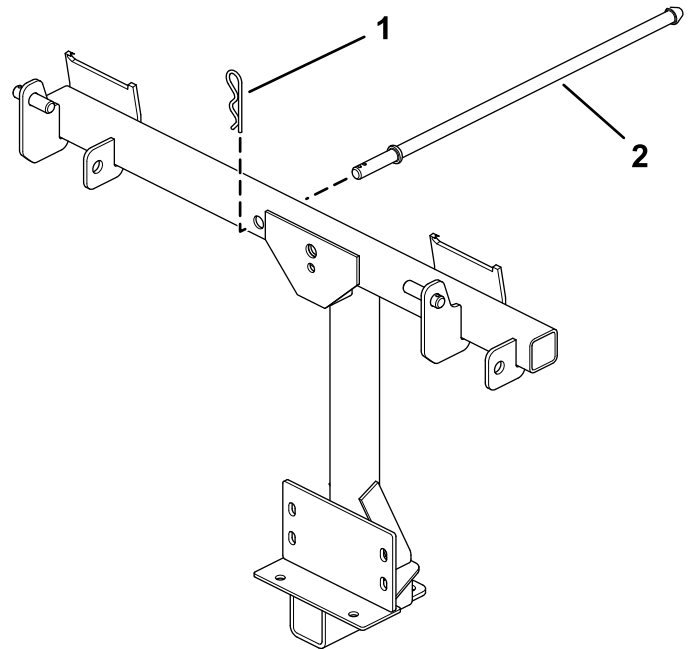


Figure 18

- | | |
|-------------------|--------------|
| 1. Hairpin cotter | 2. Latch rod |
|-------------------|--------------|

8

Assembling the Bagger Top

Parts needed for this procedure:

1	Bagger top
1	Bagger screen
2	Hairpin cotter

Procedure

1. Turn the bagger top over.

2. Install the screen as shown in [Figure 19](#) and ensure that it slopes down toward the collection bags.

Note: Make sure that the screens snap into place and the tabs engage the bagger top.

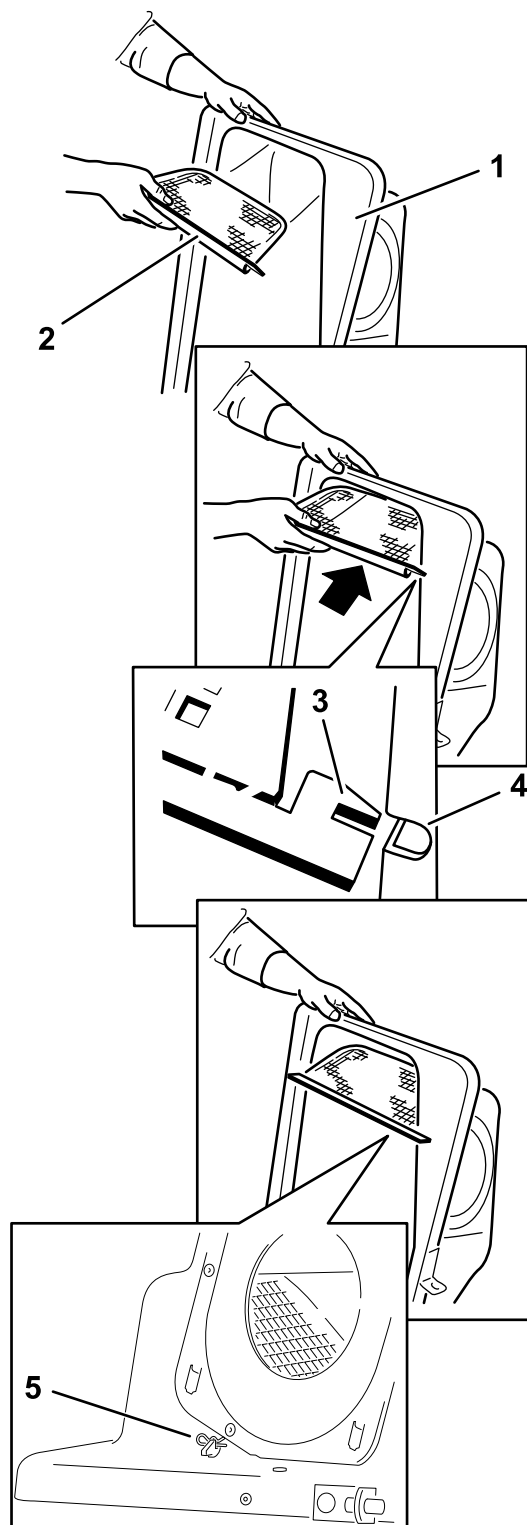


Figure 19

- | | |
|---------------|-----------------------|
| 1. Bagger top | 4. Slot in bagger top |
| 2. Screen | 5. Hairpin cotter |
| 3. Screen tab | |

9

Installing the Bagger Top

Parts needed for this procedure:

2	Grass Bag
---	-----------

Procedure

1. Install the bagger top to the bagger frame.
2. Slide the brackets over the posts in the bagger frame and install the circular cotter pin into the hole in the right hand post ([Figure 20](#)).
3. Rotate the bagger hood down to the operating position.

Note: To remove the circular cotter pin, continue to rotate it in the same direction as installed.

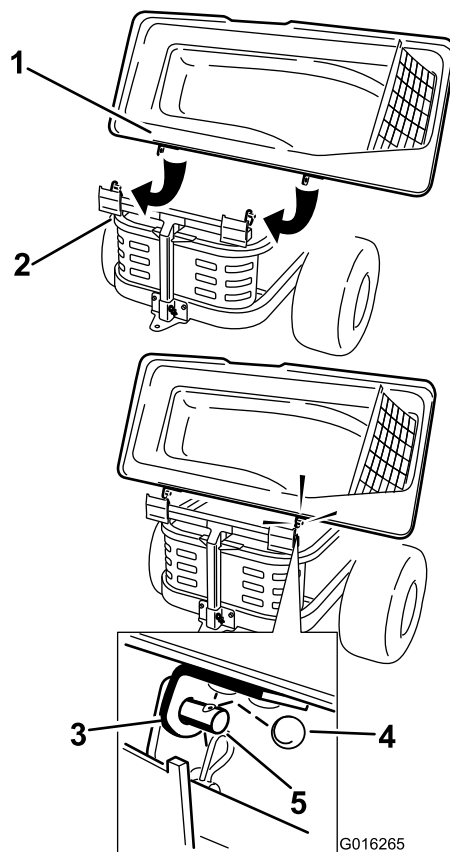


Figure 20

- | | |
|-------------------------|------------------------|
| 1. Bagger hood | 4. Circular cotter pin |
| 2. Bagger frame | 5. Post |
| 3. Bracket, bagger hood | |

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4. Lift the bagger top and install the bags by sliding the bag frame hooks onto the retaining brackets (Figure 21).

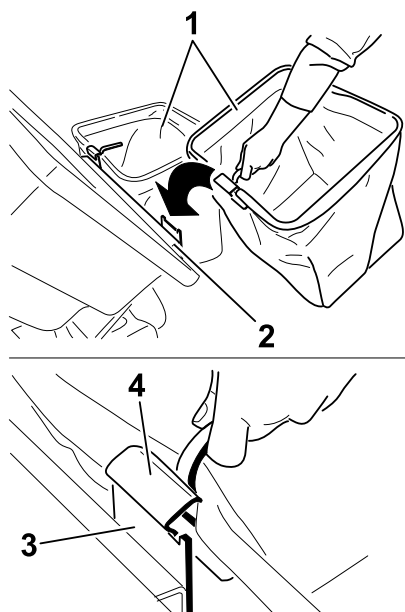


Figure 21

- | | |
|-----------------|----------------------|
| 1. Bag | 3. Retaining bracket |
| 2. Bagger frame | 4. Bag frame hook |

5. Lower the bagger top onto the bags (Figure 22).

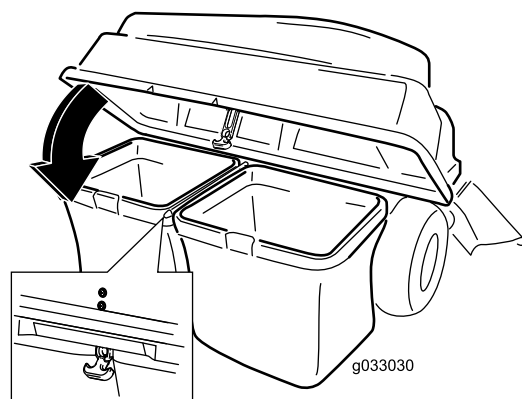


Figure 22

6. Secure the hood with the latch (Figure 22).

10

Installing the Blower Assembly

Parts needed for this procedure:

1	Blower assembly
---	-----------------

Procedure

⚠ WARNING

An uncovered discharge opening allows the lawn mower to throw objects toward you or bystanders, resulting in serious injury. Also, contact with the blade could occur.

- Never operate the lawn mower without a cover plate, a mulch plate, or a grass chute and catcher.
- Make sure that the grass deflector is installed when you remove the grass chute and catcher.

Important: Install the side-discharge chute when you remove the bagger and blower.

Important: Save all the hardware and the side-discharge chute.

1. If necessary, install the belt onto the blower pulley (Figure 25).
2. Insert the blower pivot pin into the blower support and rotate the blower assembly inward toward the machine (Figure 23).

Note: The blower assembly should automatically latch as shown in Figure 24.

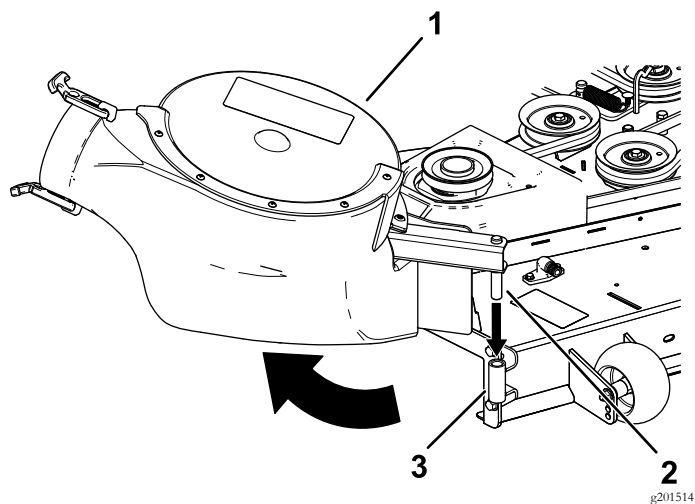


Figure 23

- 1. Blower assembly
- 2. Blower pivot pin
- 3. Blower support

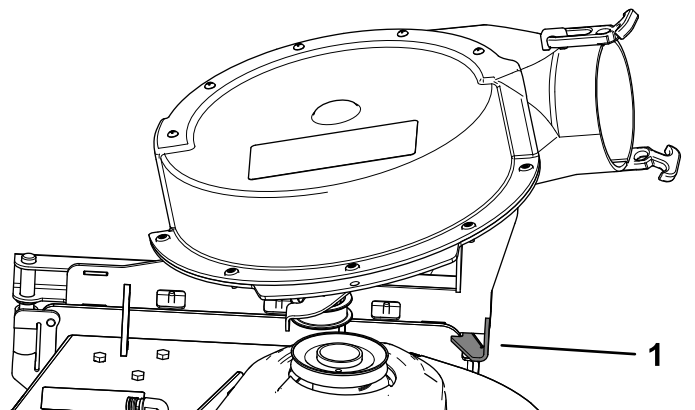


Figure 24

- 1. Blower latch

11

Installing the Blower Belt and Powered Bagger Cover

Parts needed for this procedure:

1	Powered bagger cover
1	Blower belt

Procedure

1. Install the belt around the blower pulley (Figure 25 and Figure 26); refer to [10 Installing the Blower Assembly \(page 14\)](#).

Use the following belt based on the mower deck size:

48-inch Mower Deck	54-inch Mower Deck	60-inch Mower Deck
Toro Part No. 127-0074	Toro Part No. 127-0075	Toro Part No. 127-0076

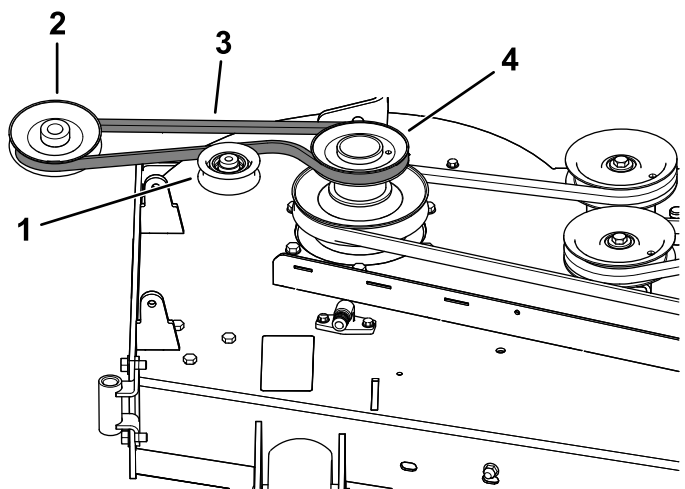


Figure 25

Blower Belt Routing

- 1. Idler/tension pulley
- 2. Blower pulley
- 3. Blower belt
- 4. Drive pulley

12

Installing the Discharge Tubes

Parts needed for this procedure:

1	Upper tube
2	Screw (1/4 x 3/4 inches)
2	Washer (1/4 inch)
2	Locknut (1/4 inch)
1	Lower tube

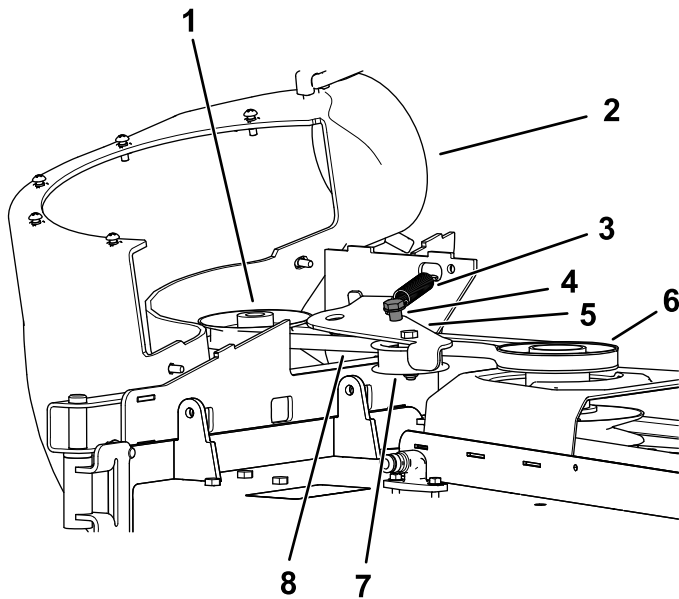


Figure 26

1. Blower pulley
2. Blower in position (housing portion removed for illustrative purposes)
3. Spring
4. Idler-pulley post
5. Idler arm
6. Drive pulley
7. Idler/tension pulley
8. Blower belt

2. Ensure that the belt remains aligned to the blower pulley while you are installing the blower assembly.
3. Pull the spring loaded idler pulley away from the fixed spring post, and route the belt around the mower deck pulley (Figure 26).

Note: Ensure that the belt is routed around the blower pulley correctly.

4. Route the belt around the drive pulley as illustrated in Figure 25 and Figure 26.
5. Install the powered bagger cover over the belt cover, and secure it by tightening the knob (Figure 27).

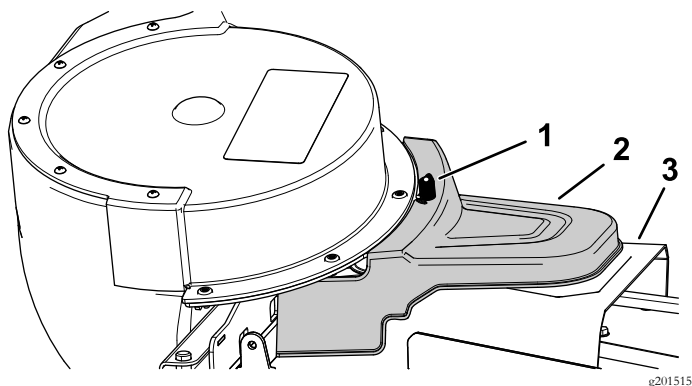


Figure 27

1. Knob
2. Powered bagger cover
3. Belt cover

Procedure

Important: Make sure that the mower deck is in the lowest height-of-cut position before installing the discharge tubes.

Note: Remember to install the grass deflector when you remove the bagger from the mower.

1. Disengage the PTO and engage the parking brake.
2. Shut off the engine and remove the key.
3. Lower the mower deck to the lowest height-of-cut position.
4. Remove the bags for viewing the tube under the hood.
5. Lower and latch the hood.
6. Use both latches to attach the lower tube to the blower assembly (Figure 28).

Note: Ensure the notch in the lower tube is at the bottom when installed (Figure 30).

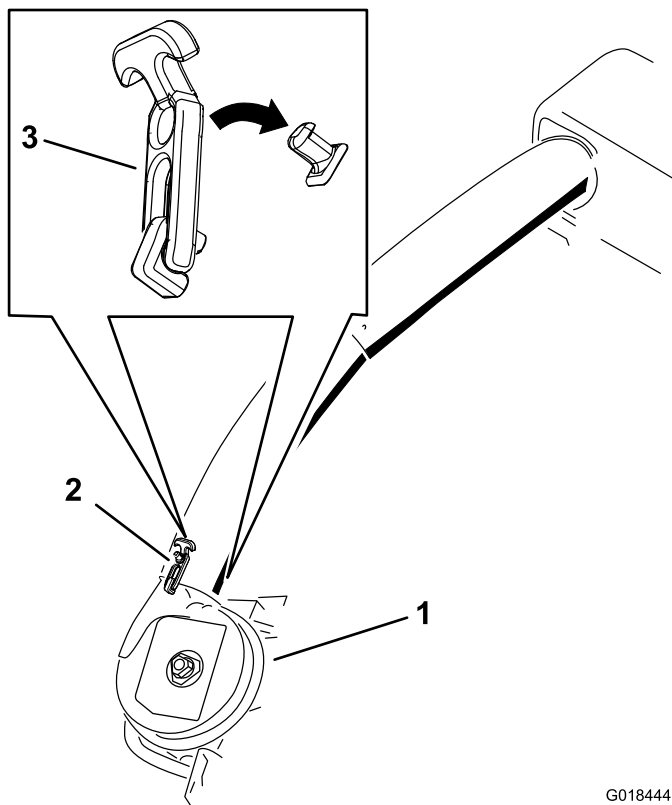


Figure 28

Lower Discharge Tube Latch

- | | |
|--------------------|----------|
| 1. Blower assembly | 3. Latch |
| 2. Upper latch | |

7. Make note of where the 2 bolts in the upper tube are installed.
Note: The hole near the molded arrowheads will not be used.
8. Remove the 2 bolts in the lower end of the upper tube.
9. Use the 2 holes as a template for the lower tube.
Note: Retain the hardware.
10. Insert the upper end (no holes) of the upper tube through the tube seal in the hood by pushing the tube in until the tube contacts the inside of the hood.
11. Pull the upper tube out slightly so that the seal extends outward and over the lower tube ([Figure 29](#)).

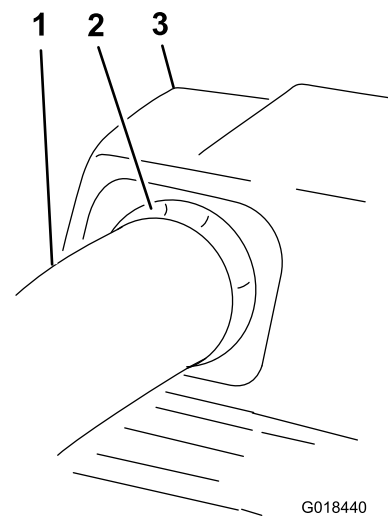


Figure 29

- | | |
|-------------------------------|----------------|
| 1. Upper tube | 3. Bagger hood |
| 2. Rubber seal protruding out | |

12. Align the upper tube holes to match the dimples on the surface of the lower tube.

Note: Ensure that the side profile appears as shown in [Figure 30](#).

Note: Do not use the open hole near the molded arrowheads.

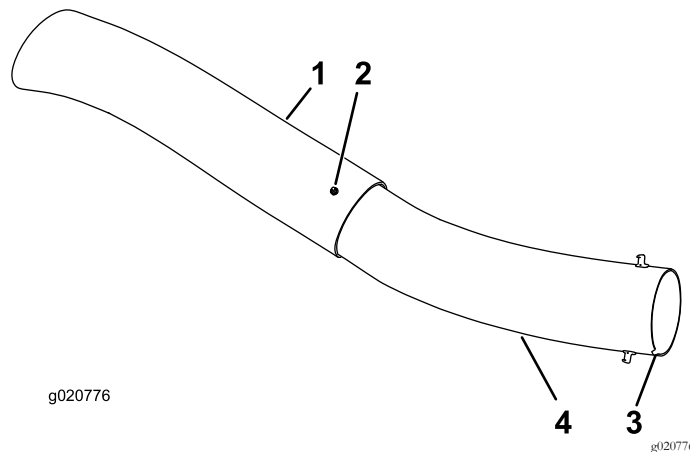


Figure 30

- | | |
|---------------------------------|---|
| 1. Upper tube | 3. Notch at the bottom of the tube when installed |
| 2. Existing hole (bolt removed) | 4. Lower tube |

13. Using the existing holes in the upper tube as a template, drill 2 holes, 6.5 mm (1/4 inch) diameter, through the dimples on the lower tube ([Figure 31](#)).

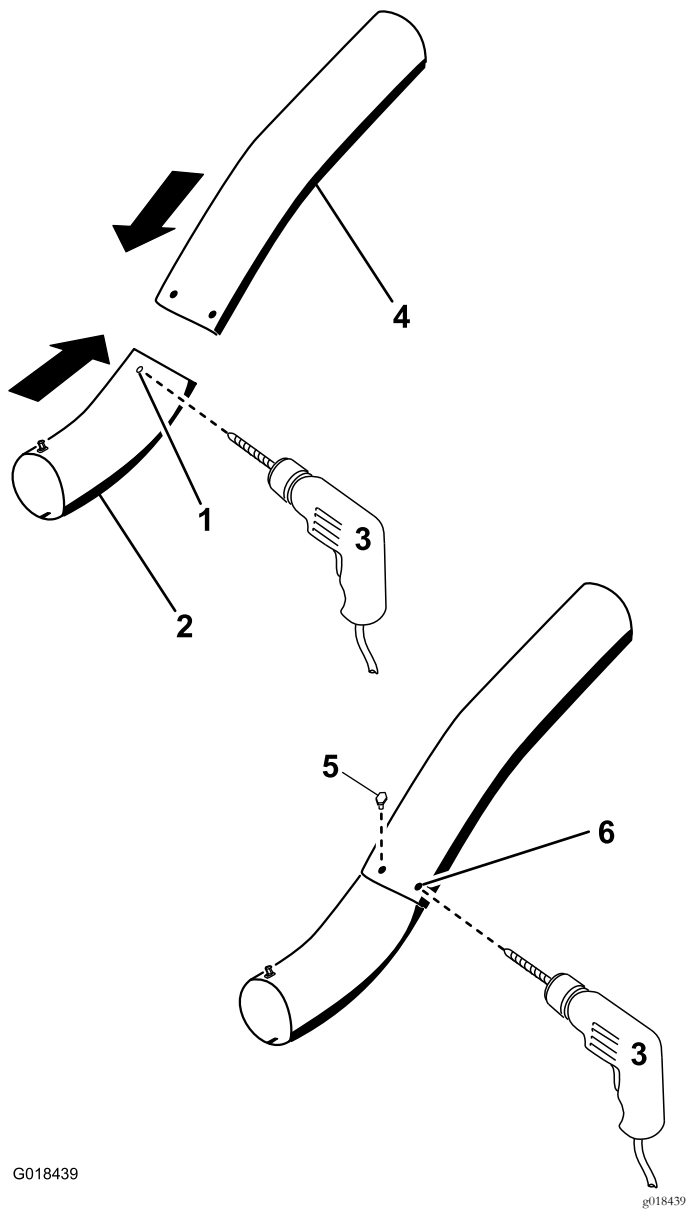


Figure 31

Drilling Lower Discharge Tube

- | | |
|--|--|
| 1. Dimples | 4. Upper tube |
| 2. Lower tube | 5. Install screw (1/4 x 3/4 inch), washer (1/4 inch), and locknut (1/4 inch) here. |
| 3. Drill 6.5 mm (1/4 inch) diameter hole | 6. Upper tube—existing holes |
-
14. Remove the upper and lower tubes from the machine.
 15. Slide the tubes together and align the holes.
 16. Install the washers (1/4 inch) onto the bolts ([Figure 31](#)).
 17. Using a hex key tool, install the screws (1/4 x 3/4 inch) and washers (1/4 inch) from the inside of the lower tube and through the existing holes in the upper tube ([Figure 31](#)).

18. Secure the tubes together with the nuts (1/4 inch) as shown in [Figure 31](#).
19. Insert the upper discharge tube through the tube seal in the hood.
20. Pull the upper tube out slightly so that the seal extends outward and over the blower assembly ([Figure 29](#)).
21. Use both latches to attach the lower tube to the blower assembly ([Figure 28](#)).

Operation

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

⚠ WARNING

To avoid personal injury, follow these procedures:

- Become familiar with all operating and safety instructions in the *Operator's Manual* for the mower before using this attachment.
- Never remove the discharge tube, bags, bagger hood, or the chute while the engine is running.
- Always shut the engine off and wait for all moving parts to stop before clearing an obstruction from the bagging system.
- Never perform maintenance or repairs while the engine is running.

Emptying the Grass Bags

Be careful when lifting or handling a grass bag that is full. To empty the grass bags:

1. Park the machine on a level surface.
2. Disengage the blade-control switch, engage the parking brake, and move the motion-control levers outward to the NEUTRAL-LOCK position.
3. Shut off the engine and remove the key.
4. Raise the bagger hood (Figure 32).

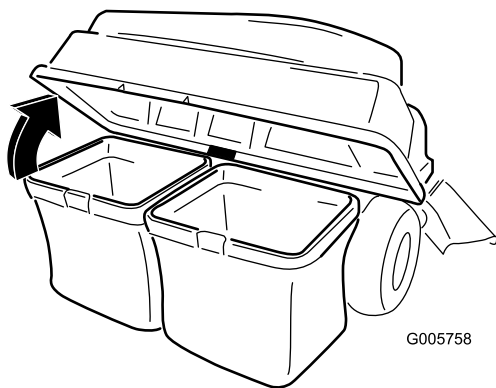


Figure 32

5. Compress the debris into the bags.
6. With both hands, lift up on the bag and unhook it from the retaining bracket, empty the bag.
7. Repeat the procedure for the other bag.
8. Install the bags by sliding the bag frame hooks onto the retaining brackets (Figure 33).

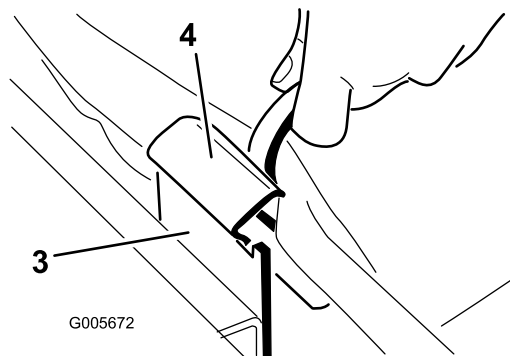
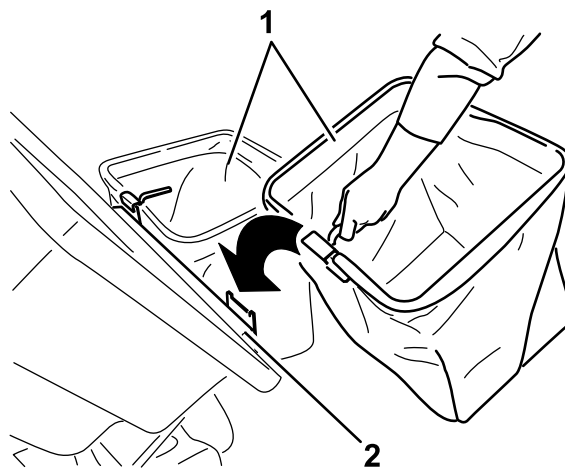


Figure 33

- | | |
|-----------------|----------------------|
| 1. Bag | 3. Retaining bracket |
| 2. Bagger frame | 4. Bag frame hook |

9. Lower the bagger hood onto the bags.

Clearing Obstructions from the Bagger System

⚠ WARNING

When the bagger is in operation, the blower is rotating and can cut off or injure hands and fingers.

- Before adjusting, cleaning, repairing and inspecting the blower, and before unclogging the chute, turn off the engine and wait for all moving parts to stop. Remove the key.
- Use a stick, not your hands, to remove an obstruction from the blower and tube.
- Keep your face, hands, feet, and any other part of your body or clothing away from concealed, moving, or rotating parts.

1. Park the machine on a level surface.
2. Disengage the blade-control switch, engage the parking brake, and move the motion-control levers outward to the NEUTRAL-LOCK position.

3. Shut off the engine and remove the key.
4. Empty the bags.
5. Unlatch the lower tube.
6. Remove the tubes from the bagger.
7. Use a stick or similar object, not your hands, to remove and clear the obstruction from the tube assembly.

Note: In most cases, you can shake the debris out of the tubes.

8. If the blower assembly is plugged, remove the plastic belt cover, unlatch the bagger blower assembly, remove the belt, and swing it open.
9. Use a stick or similar object, not your hands, to remove and clear the obstruction from the blower assembly.
10. After you remove the obstruction, install the complete bagger system and resume operation.

Removing the Bagger

⚠ WARNING

Components around the engine will be hot if the machine has been running. Touching hot components can cause burns.

- Do not touch engine components when hot.
- Allow engine to cool before removing the bagger.

⚠ CAUTION

Failing to remove the front bagger weights and operating the machine without the bagger attachment may cause an unstable condition which could result in a loss of control.

Always remove the front weights when removing the bagger attachment.

Remove the bagger by repeating the setup sections from the *Installation Instructions* and *Operator's Manual* in reverse order. Always remove the front baffles and front weights when removing the bagger attachments.

Important: Install the side-discharge chute when you remove the bagger and blower.

Note: It is only necessary to remove the cutoff baffle when installing a mulching kit.

Operating Tips

Tips for Bagging

Remembering the Size of the Machine with the Attachment

Remember that the machine is longer and wider with this attachment installed. By turning too sharply in confined places you may damage the attachment.

Trimming

Always trim with the left side of the mower. Do not trim with the right side of the mower because you could damage the bagger chute and discharge tube.

Cutting Height

Do not set the mower cutting height too low because long grass surrounding the mower can prevent air from getting under the mower and entering the bagging system. If enough air does not get under the mower, the bagging system will plug.

Cutting Frequency

Cut the grass often, especially when it grows rapidly. You will need to cut your grass twice if it gets excessively long.

Cutting Technique

For best lawn appearance, be sure to slightly overlap the mower into the previously cut area. This helps reduce the load on the engine and reduces the chance of plugging the chute and discharge tube.

Bagging Speed

Most often you will bag with the mower throttle in the FAST position and drive at a normal ground speed. However, in extremely dry and dusty grass, you may want to slightly reduce the throttle speed and increase the ground speed of the mower. The bagging system may plug if you drive too fast and the engine speed gets too slow. On hills, it may be necessary to slow the mower ground speed. This helps maintain the engine speed and bagging efficiency. Mow downhill whenever possible.

⚠ CAUTION

As the bagger fills, extra weight is added to the back of the machine. If you stop and start suddenly on hills, you may lose steering control or the machine may tip.

- Do not start or stop suddenly when going uphill or downhill. Avoid uphill starts.
- If you do stop the machine when going uphill, disengage the blade control. Then back down the hill using a slow speed.
- Avoid sudden turns or rapid speed changes on slopes.
- Never operate the machine without the bagger attachment and the front weights still installed.

Bagging Long Grass

Excessively long grass is heavy and may not be propelled completely into the grass bags. If this happens, the discharge tube and chute may plug. To avoid plugging the bagging system, mow the grass at a high height of cut, then lower the mower to your normal cutting height and repeat the bagging process.

Bagging Wet Grass

Always try to cut grass when it is dry because your lawn will have a neat appearance. If you must cut wet grass, use the conventional side discharge feature of the mower. Several hours later, when the clippings are dry, install the complete bagger attachment and vacuum up the grass clippings.

Signs of Plugging

As you are bagging, a small amount of grass clippings normally blow out the front of the mower. An excessive amount of clippings blowing out indicates that the bags are full or the system is plugged.

Maintenance

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

Recommended Maintenance Schedule(s)

Maintenance Service Interval	Maintenance Procedure
After the first 8 hours	• Inspect the blower belt. • Inspect the bagger.
After each use	• Clean the hood screen. • Clean the bagger.
Every 25 hours	• Inspect the blower belt.
Every 100 hours	• Inspect the bagger.

⚠ WARNING

If you leave the key in the key switch, someone could accidentally start the engine and seriously injure you or other bystanders.

Remove the key and disconnect the wire from the spark plug before you do any maintenance. Set the wire aside so that it does not accidentally contact the spark plug.

⚠ WARNING

Engines can become hot when they are operating. Severe burns can occur from contacting hot surfaces.

Allow engines, especially the muffler, to cool before touching.

⚠ WARNING

Debris, such as leaves, grass, or brush can catch fire. A fire in the engine area can cause personal injury and property damage.

- Keep the engine and muffler area free of debris accumulation.
- Take care when opening the bagger cover to keep debris from falling onto the engine and muffler area.
- Allow the machine to cool before storing it.

Preparing for Maintenance

Do the following steps before performing maintenance on the machine:

1. Park the machine on a level surface.
2. Disengage the PTO, move the motion control levers to the NEUTRAL-LOCK position, and engage the parking brake.
3. Shut off the engine and remove the key.
4. Clean the mower of any debris on the deck or rear part of the mower to ease maintenance.

Cleaning the Hood Screen

Service Interval: After each use

1. Open the bagger hood.
2. Clean the debris from the screen.
3. Close the bagger hood.

Cleaning the Bagger and Bags

Service Interval: After each use

1. Wash the inside and outside of the bagger hood, bags, tube, and the underside of the mower.
- Note:** Use a mild automotive detergent to remove dirt.
2. Make sure that you remove matted grass from all parts.
 3. After washing all parts, let them dry thoroughly.

Note: With all parts installed, start and run the machine for a minute to assist in drying.

Inspecting the Blower Belt

Service Interval: After the first 8 hours

Every 25 hours

Check belts for cracks, frayed edges, burn marks or any other damage. Replace damaged belts.

Replacing the Blower Belt

1. Remove the plastic belt cover.
2. Pull back on the spring-loaded idler pulley to relieve the belt tension ([Figure 34](#)).

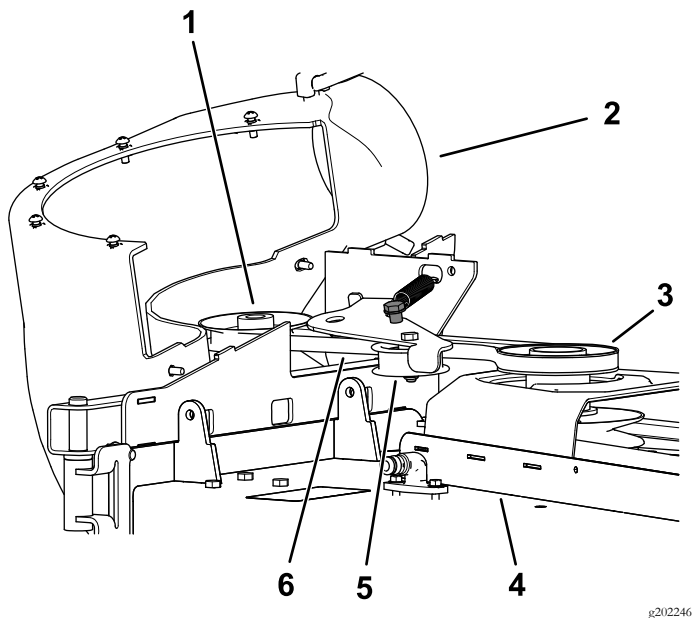


Figure 34

- | | |
|---|-------------------------|
| 1. Blower pulley | 4. Mower deck |
| 2. Blower in position (housing portion removed for illustrative purposes) | 5. Idler/tension pulley |
| 3. Drive pulley | 6. Blower belt |

4. Remove the blower from the mower deck.
5. Remove the existing bagger belt from the blower pulleys.
6. Install the new belt around the blower pulleys ([Figure 34](#)).
7. Install the blower onto the blower support.
8. Install the new belt around the mower-deck pulley ([Figure 34](#)).
9. Pull back on the spring loaded idler pulley and install the belt onto the spring-loaded idler pulley ([Figure 34](#)).

3. Remove the existing bagger belt from the mower-deck pulley.

Inspecting the Bagger

Service Interval: Every 100 hours

After the first 8 hours

1. Check the upper tube, lower tube, bagger hood, and the blower assembly.

Note: Replace these parts if they are cracked or broken.

2. Check the bags, bagger frame, and screen.

Note: Replace any parts that are cracked or broken.

3. Tighten all nuts bolts and screws.

Inspecting the Mower Blades

1. Inspect the mower blades regularly and whenever a blade strikes a foreign object.
2. If blades are badly worn or damaged, install new blades; refer to your machine *Operator's Manual* for complete blade maintenance.

Storage

Storing the Bagger Attachment

1. Clean the bagger attachment; refer to Cleaning the Bagger Attachment.
2. Inspect the bagger attachment for damage; refer to Inspecting the Bagger Attachment.
3. Ensure that the grass bags are empty and thoroughly dry.
4. Store the bagger in a clean, dry place, out of direct sunlight. This protects the plastic parts and extends the life of the bagger. If you must store the bagger outside, cover it with a weatherproof cover.

Troubleshooting

Problem	Possible Cause	Corrective Action
There is abnormal vibration.	1. The cutting blade(s) are bent or unbalanced. 2. The blade-mounting bolt is loose. 3. There is a loose blower pulley or pulley assembly. 4. The bagger belt is worn. 5. The blower fan blade(s) are bent or unbalanced.	1. Install new cutting blade(s). 2. Tighten the blade-mounting bolt. 3. Tighten the appropriate pulley. 4. Replace the belt. 5. Contact an Authorized Service Dealer.
Reduced bagging performance	1. The engine speed is too low. 2. The screen in the bagger hood is plugged. 3. The bagger belt is loose. 4. There is a plugged tube or blower. 5. The bags are full.	1. Always operate the engine at full throttle. 2. Remove debris, leaves, or grass clippings from the screen. 3. Replace the bagger belt. 4. Locate and remove the plugged debris. 5. Empty the hopper.
The blower and tubes plug too frequently.	1. The bags are too full. 2. The engine speed is too low. 3. The grass is too wet. 4. The grass is too long. 5. The screen in the bagger hood is plugged. 6. The ground speed is too fast. 7. The bagger belt is worn.	1. Dump more frequently. 2. Always operate the engine at full throttle. 3. Cut grass when it is dry. 4. Cut no more than 51 to 76 mm (2 to 3 inches) or 1/3 of the grass height, whichever is less. 5. Remove debris, leaves, or grass clippings from the screen. 6. Drive slower at full throttle. 7. Replace the belt.
Debris blowout	1. The bags are too full. 2. The ground speed is too fast. 3. The mower deck is not leveled.	1. Dump more frequently. 2. Drive the machine at slow ground speed while operating the engine at full throttle. 3. See the machine <i>Operator's Manual</i> for leveling the mower deck.
The blower impeller does not spin freely.	1. The blower is plugged. 2. The impeller is not aligned.	1. Remove debris, leaves, or grass clippings from the blower impeller. 2. Contact an Authorized Service Dealer.

Notes:

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 and The Toro GTS Starting Guarantee

Residential Products

Conditions and Products Covered

The Toro Company and its affiliate, Toro Warranty Company, pursuant to an agreement between them, jointly promise to repair the Toro Product listed below if defective in materials or workmanship or if the Toro GTS (Guaranteed to Start) engine will not start on the first or second pull, provided the routine maintenance required in the *Operator's Manual* have been performed.

The following time periods apply from the original date of purchase:

Products	Warranty Period
Walk Power Mowers	
• Cast Deck	5 years Residential Use ² 90 Days Commercial Use
—Engine	5 years GTS Guarantee, Residential Use ³
—Battery	2 years
• Steel Deck	2 years Residential Use ² 30 Days Commercial Use
—Engine	2 years GTS Guarantee, Residential Use ³
TimeMaster Mowers	3 years Residential Use ² 90 Days Commercial Use
• Engine	3 years GTS Guarantee, Residential Use ³
• Battery	2 years
Electric Hand Held Products and Electric Walk Power Mowers	2 years Residential Use ² No Warranty for Commercial Use
All Ride-On Units Below	
• Engine	See engine manufacturer's warranty ⁴
• Battery	2 years Residential Use ²
• Attachments	2 years Residential Use ²
DH Lawn & Garden Tractors	2 years Residential Use ² 30 Days Commercial Use
TimeCutter	3 years Residential Use ² 30 Days Commercial Use
• Engine	3 years Residential Use ² 2 years or 300 hours Commercial Use ⁵
TimeCutter HD	3 years or 300 hours ⁵
• Engine	3 years or 300 hours Commercial Use ⁵

¹Original Purchaser means the person who originally purchased the Toro Product.

²Residential use means use of the product on the same lot as your home. Use at more than one location is considered commercial use and the commercial use warranty would apply.

³The Toro GTS Starting Guarantee does not apply when the product is used commercially.

⁴Some engines used on Toro Products are warranted by the engine manufacturer.

⁵Whichever occurs first.

Warranty may be denied if the hour meter is disconnected, altered, or shows signs of being tampered with.

Owner Responsibilities

You must maintain your Toro Product by following the maintenance procedures described in the *Operator's Manual*. Such routine maintenance, whether performed by a dealer or by you, is at your expense.

Instructions for Obtaining Warranty Service

If you think that your Toro Product contains a defect in materials or workmanship, follow this procedure:

1. Contact your seller to arrange service of the product. If for any reason it is impossible for you to contact your seller, you may contact any Toro Authorized Distributor to arrange service. Visit <http://www.toro.com/en-us/locator/pages/default.aspx> to locate a Toro distributor in your area.
2. Bring the product and your proof of purchase (sales receipt) to the servicing outlet. If for any reason you are dissatisfied with the servicing outlet's analysis or with the assistance provided, contact us at:

Toro Warranty Company
Toro Customer Care Department, RLC Division
8111 Lyndale Avenue South
Bloomington, MN 55420-1196
001-952-948-4707

Items and Conditions Not Covered

There is no other express warranty except for special emission system coverage and engine warranty coverage on some products. This express warranty does not cover the following:

- Cost of regular maintenance service or parts, such as filters, fuel, lubricants, oil changes, spark plugs, air filters, blade sharpening or worn blades, cable/linkage adjustments, or brake and clutch adjustments
- Components failing due to normal wear
- Any product or part which has been altered, misused, neglected, requires replacement, or repair due to accidents or lack of proper maintenance
- Pickup and delivery charges
- Repairs or attempted repairs by anyone other than an Authorized Toro Service Dealer
- Repairs necessary due to failure to follow recommended fuel procedure (consult *Operator's Manual* for more details)
 - Removing contaminants from the fuel system is not covered
 - Use of old fuel (more than one month old) or fuel which contains more than 10% ethanol or more than 15% MTBE
 - Failure to drain the fuel system prior to any period of non-use over one month
- Repairs or adjustments to correct starting difficulties due to the following:
 - Failure to follow proper maintenance procedures or recommended fuel procedure
 - Rotary mower blade striking an object
- Special operational conditions where starting may require more than two pulls:
 - First time starts after extended period of non-use over three months or seasonal storage
 - Cool temperature starts such as those found in early spring and late autumn
 - Improper starting procedures - if you are having difficulty starting your unit, please check the *Operator's Manual* to ensure that you are using the correct starting procedures. This can save an unnecessary visit to an Authorized Toro Service Dealer.

General Conditions

The purchaser is covered by the national laws of each country. The rights to which the purchaser is entitled with the support of these laws are not restricted by this warranty.