

The Toro logo, featuring the word "TORO" in a bold, white, sans-serif font inside a black rounded rectangular box.

**Wheel Horse®**  
**44" Vac-Bagger**  
**for**  
**5xi Lawn and Garden Tractors**  
**Model No. 79305 – 8900001 & Up**

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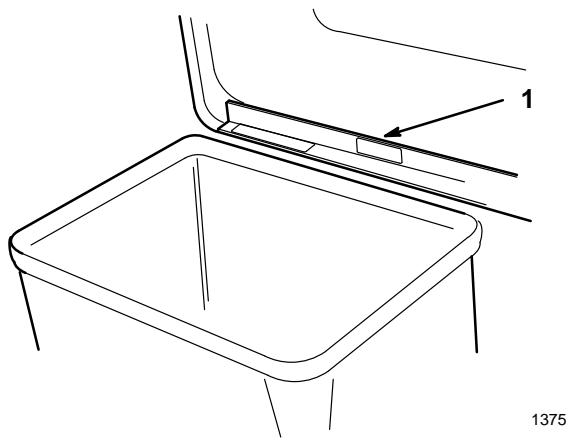
# **Operator's Manual**

**IMPORTANT:** Read this manual, and all related equipment manuals, carefully. They contain information about your safety and the safety of others. Also become familiar with the controls and their proper use before you operate the product.

# Introduction

We want you to be completely satisfied with your new product, so feel free to contact your local Authorized Service Dealer for help with service, genuine replacement parts, or other information you may require.

Whenever you contact your Authorized Service Dealer or the factory, always know the model and serial numbers of your product. These numbers will help the Service Dealer or Service Representative provide exact information about your specific product. You will find the model and serial number plate located in a unique place on the product as shown below.



1. Model and Serial Number Plate

For your convenience, write the product model and serial numbers in the space below.

<b>Model No.:</b> _____
<b>Serial No.:</b> _____

The warning system in this manual identifies potential hazards and has special safety messages that help you and others avoid personal injury, even death. **DANGER**, **WARNING** and **CAUTION** are signal words used to identify the level of hazard. However, regardless of the hazard, be extremely careful.

**DANGER** signals an extreme hazard that will cause serious injury or death if the recommended precautions are not followed.

**WARNING** signals a hazard that may cause serious injury or death if the recommended precautions are not followed.

**CAUTION** signals a hazard that may cause minor or moderate injury if the recommended precautions are not followed.

Two other words are also used to highlight information. "Important" calls attention to special mechanical information and "Note" emphasizes general information worthy of special attention.

The left and right side of the machine is determined by sitting on the seat in the normal operator's position.

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## Safety and Instruction 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.

INSIDE EDGE OF BAGGER TOP  
(PART NO. 92-7113)



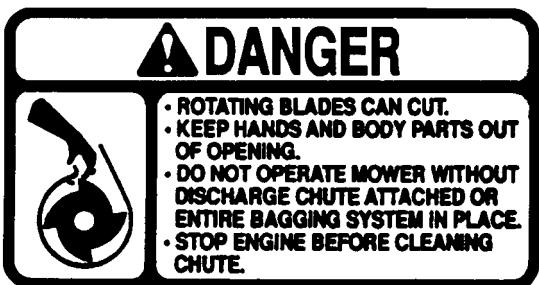
ON TOP OF DECK (LEFT SIDE)  
(PART NO. 92-7108)



MOLDED INTO BELT SHIELD



MOLDED INTO BELT SHIELD



MOLDED INTO BELT SHIELD



# Installation

## Loose Parts

**Note:** Use the chart below to identify parts used for assembly.

DESCRIPTION	QTY.	USE
J-pin	1	
Cotter pin	1	Prepare tractor lift arm
Bagger hitch	1	
Bolt 3/8–16 x 1" (25 mm)	4	Mount bagger hitch
Nut 3/8"	4	
Carriage bolt 3/8–16 x 3/4" (19 mm)	2	
Washer 1/2" (13 mm)	2	Install in open slots when Recycler® baffles are removed
Locknut 3/8"	2	
Blade (hi-lift)	3	Replace standard lift blades
Grass baffle-front	1	
Carriage bolt 5/16–18 x 7/8" (22 mm)	3	
Carriage bolt 5/16–18 x 1/2" (13 mm)	1	Install front grass baffle
Locknut 5/16"	3	
Locknut (thin) 5/16"	1	
Grass baffle-rear	1	
Grass ring	1	
Bolt 1/4–20 x 3/4" (19 mm)	2	
Locknut 1/4"	2	Install rear grass baffle and grass ring
Carriage bolt 5/16–18 x 7/8" (22 mm)	3	
Carriage bolt 5/16–18 x 2-1/2" (64 mm)	1	
Latch tube	1	
Locknut 5/16"	4	
Counterweight	1	
Cover plate	1	
Bolt 3/8–16 x 2-1/4" (57 mm)	2	Install counterweight
Flat washer 3/8" (10 mm)	4	
Locknut 3/8"	2	
Danger decal	1	
Bolt 3/8–16 x 3/4" (19 mm)	2	Install in open holes when counterweight is removed
Locknut 3/8"	2	

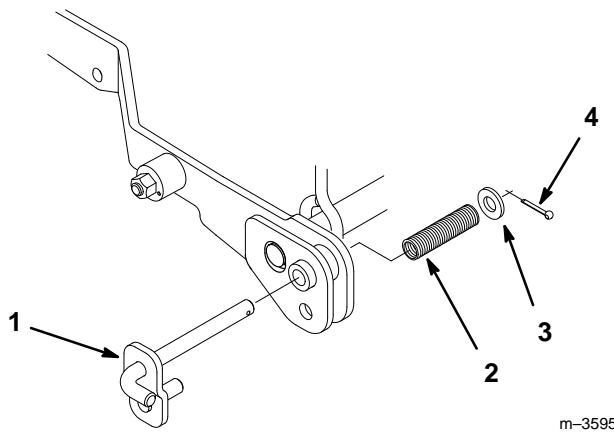
DESCRIPTION	QTY.	USE
Cover	1	
Indicator rod	1	
Handle	1	
Jam nut 1/4"	1	
Clips	2	Assemble the bagger
Screw 1/4–20 x 3/4" (19 mm)	2	
Locknut 1/4"	4	
Frame assembly	1	
Pivot support	1	
Pivot bracket	1	
Spacer tube	1	
Carriage bolt 5/16–18 x 4-1/2" (114 mm)	1	Install blower pivot support
Bolt 5/16–18 x 7/8" (19 mm)	1	
Washer 5/16" (8 mm)	2	
Locknut 5/16"	4	
Pulley	1	
Belt	1	
Blower assembly	1	
Blower belt cover	1	Install the blower
Washer	4	
Knobs	2	
Quick-attach bracket	1	
Hairpin cotter	2	
Grass bags	2	Install the bagger assembly and discharge tube
Discharge tube	1	
Operator's Manual	1	Read before operating

## Preparing the Tractor

### Install New J-Pin

Before you can install the bagger, you must first install a bagger-compatible J-pin in the attachment lift arm on the right side of the tractor. This is most easily done on a level concrete surface. Rougher dirt or lawn surfaces make installation more difficult.

1. Remove the mower; refer to Mower Operator's Manual for instructions.
2. Start the tractor, set the parking brake, lower the attachment lift, and turn the ignition key to "STOP" to stop the engine. Remove the ignition key.
3. Remove the cotter pin from the J-pin on the right side of the tractor (Fig. 1). Slide the washer and spring from the J-pin, then remove the J-pin from the attachment lift arm.
4. Install the new, bagger-compatible J-pin into the location from which you removed the old pin. Slide the washer and spring onto the J-pin. Insert a new cotter pin and bend the ends of the pin to secure the assembly (Fig. 1).



**Figure 1**

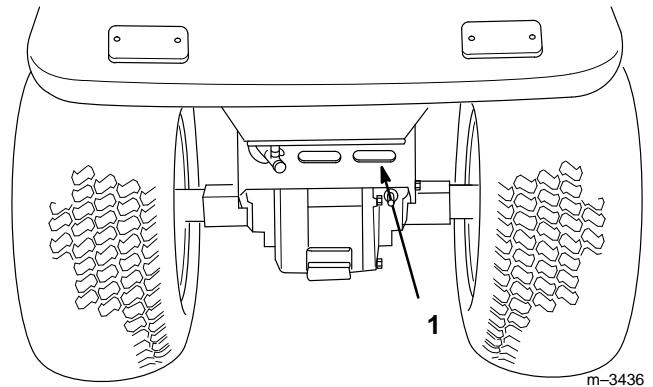
Right side of tractor shown

1. Bagger J-pin	3. Washer
2. Spring	4. Cotter pin

### Remove the Transaxle Cover

Remove the transaxle cover from the back of the tractor (Fig. 2).

**Note:** Save all parts and hardware for use when installing the transaxle cover.

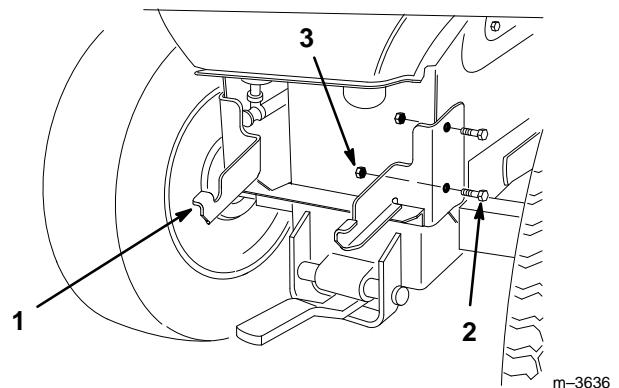


**Figure 2**

1. Rear transaxle cover

### Mount the Vac Bagger Hitch to the Tractor

Install the vac bagger hitch to the tractor with 4 bolts and nuts (Fig. 3).



**Figure 3**

1. Bagger hitch	3. Nut 3/8"
2. Bolt 3/8 x 1" (25 mm)	

## Preparing the Mower

### Remove the Recycling Baffles

If you have a recycling mower deck, you must remove the recycling baffles to use the vac bagger.

1. Thoroughly clean the mower.
2. Remove the knobs and washers from the right side baffle and the nuts and washers from the left side baffle (Fig. 4). Lift the baffles from the deck.

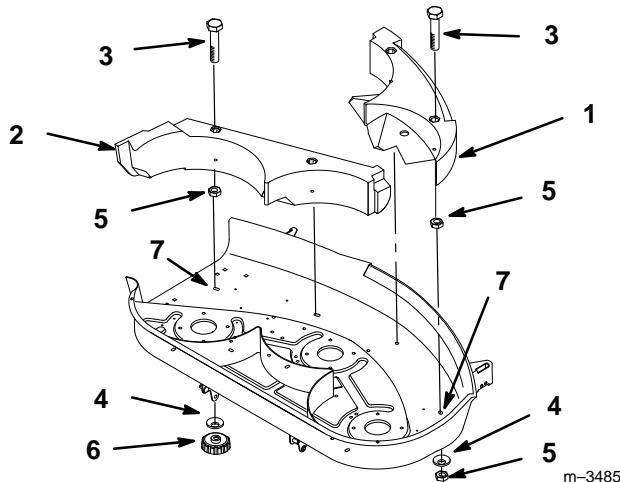


Figure 4

1. Baffle left side	5. Locknut 5/16"
2. Baffle right side	6. Knob
3. Bolt, 5/16 x 1-1/4" (32 mm)	7. Slotted hole
4. Belleville washer—concave side toward deck surface	

**Note:** Save hardware for use when installing the baffles.

### DANGER

#### POTENTIAL HAZARD

- Open holes in the mower expose you and others to thrown debris.

#### WHAT CAN HAPPEN

- Debris thrown out of holes in the mower can cause injury.

#### HOW TO AVOID THE HAZARD

- Never operate the mower without hardware mounted in all holes in the mower.
- Install hardware in the mounting holes when the recycle baffle is removed.

3. Install (2) 3/8-16 x 3/4" (19 mm) carriage bolts (from the underside of the mower), (2) 1/2" (13 mm) washers, and (2) 3/8" locknuts in the (2) open slotted holes of the mower shown in Figure 4.

### Install Hi-lift Blades

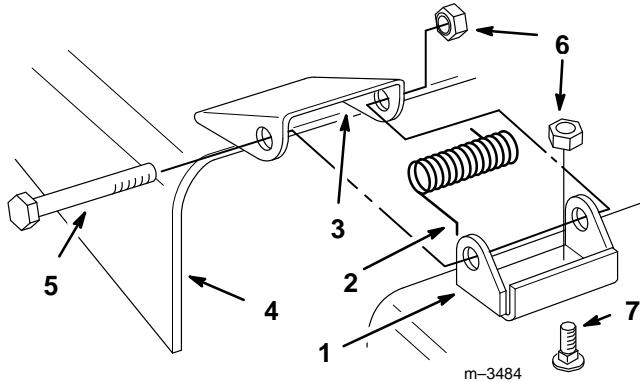
1. Install the hi-lift blades from the bagger in place of the standard blades. Refer to Mower Operator's Manual; Cutting Blade.

**Note:** The hi-lift blades are also used for Recycler® mowers.

## Remove the Discharge Chute

1. Remove the discharge chute and mounting brackets from the mower (Fig. 5).

**Note:** Save all parts and hardware for use when installing the discharge chute.

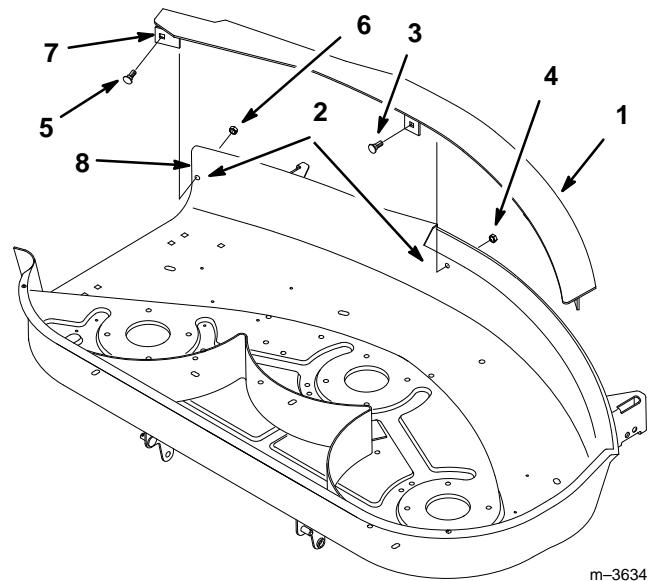


**Figure 5**

1. Bracket	5. Bolt
2. Spring hook end	6. Locknut
3. Space for spring	7. Carriage bolt
4. Discharge chute	

## Install the Grass Baffles

1. Place the front grass baffle inside the front edge of the mower. The baffle plate should rest on the front edge of the mower. The right tab on the baffle should extend  $1/8"$  (3 mm) outside of the right edge of the mower (Fig. 6). Use a clamp to hold the baffle in place.
2. Mark where the holes in the baffle are and remove the clamp and grass baffle. Drill (4)  $11/32"$  holes (Fig. 6).
3. Install the grass baffle inside the front edge of the mower using (3)  $5/16 \times 7/8"$  (19 mm) carriage bolts and (3)  $5/16"$  locknuts. At the right side use the  $5/16 \times 1/2"$  (13 mm) carriage bolt and thin  $5/16"$  locknut (Fig. 6).



**Figure 6**

1. Front grass baffle	5. Carriage bolt, $5/16 \times 1/2"$ (13 mm)
2. Drill $11/32"$ hole	6. Locknut (thin), $5/16"$
3. Carriage bolt, $5/16 \times 7/8"$ (19 mm)	7. Right tab on baffle
4. Locknut $,5/16"$	8. Right edge of mower

4. Attach the rear grass baffle to the grass ring with (2) 5/16 x 7/8" (22 mm) carriage bolts and (2) 5/16" locknuts (Fig. 7).
5. Install the rear grass baffle and grass ring inside the discharge chute area. Secure the rear grass baffle to the mower with a 5/16 x 7/8" (22 mm) carriage bolt and a 5/16 x 2-1/2" (64 mm) carriage bolt. Add the latch tube above the deck and secure with (2) 5/16" locknuts. Secure the grass ring to the mower with (2) 1/4 x 3/4" (19 mm) bolts and (2) 1/4" locknuts (Fig. 7).

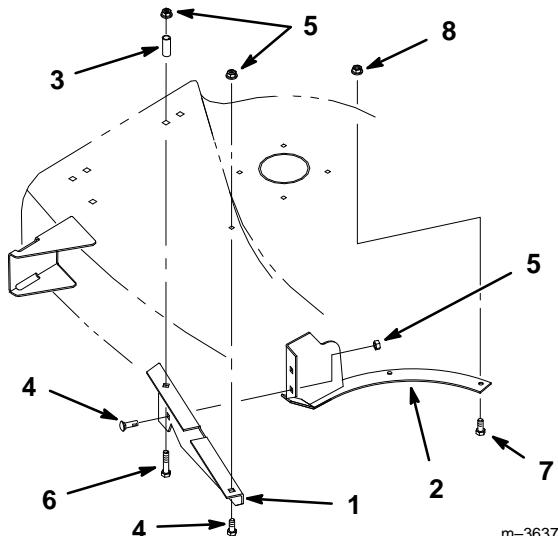


Figure 7

1. Rear grass baffle	5. Locknut 5/16
2. Grass ring	6. Carriage bolt, 5/16 x 2-1/2" (64 mm)
3. Latch tube	7. Screw, 1/4 x 3/4" (19 mm)
4. Carriage bolt, 5/16 x 7/8" (22 mm)	8. Locknut 1/4"

6. Rotate the blades to make sure they do not hit the baffles or grass ring. Adjust the baffles as required so the blades do not hit.

## Install the Mower Deck Counterweight (Use these instructions for decks with washout port)

If your mower deck has a washout port (Fig. 9), use these instructions for mounting the counterweight. If there is no washout port, skip this section and install the counterweight per the next section.

The washout port must be removed to install the vac-bagger counterweight. This removal leaves open holes in the top of the mower deck.

The cover plate, included in loose parts, prevents debris from being thrown out of the open holes in the mower deck.

### DANGER

#### POTENTIAL HAZARD

- Open holes in the mower expose you and others to thrown debris.

#### WHAT CAN HAPPEN

- Debris thrown out of holes in the mower can cause injury.

#### HOW TO AVOID THE HAZARD

- Never operate mower without hardware mounted in all holes in mower.
- Install hardware in mounting holes when the washout port is removed.

## Installation

1. Remove the two bolts, flat washers and nuts holding the washout port to the deck and remove the washout port (Fig. 8). Save the washout port and the bolts, nuts and washers for reinstallation when removing the counterweight.

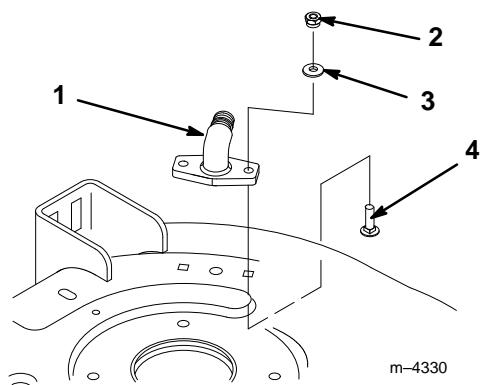


Figure 8

1. Washout port
2. Nut (2), 1/4-20
3. Flat washer (2), 1/4"
4. Bolt (2), 1/4-20 x 3/4" (19 mm)

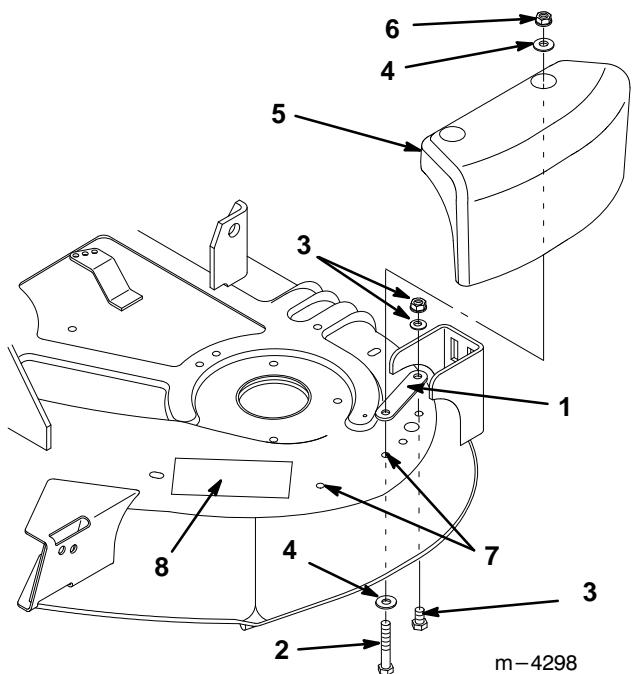


Figure 9

1. Cover plate	5. Counterweight
2. Bolt, 3/8 x 2 1/4" (57 mm)	6. Locknut, 3/8"
3. Existing hardware from washout port	7. Drill 13/32" holes
4. Flat washer, 3/8" (10 mm)	8. Decal

2. Using one of the two bolts, washers and nuts from the washout port, install the cover plate to the deck (Fig. 9). Place the bolt up through the deck (head to underside of deck) in the hole closest to the rear of the deck. Install one end of the cover to the bolt and secure loosely with the nut and flat washer.
3. Position the mower deck counterweight on the left-hand side of the mower so that it fits snuggly against the side of the mower (Fig. 9).
4. Align the rear hole in the counterweight with the front hole in the cover plate (pivot the cover plate to align) (Fig. 9).
5. Using a punch in the holes of the counterweight, mark the locations for drilling (2) 13/32" holes. Remove the counterweight and drill the holes.
6. Secure the counterweight to the top of the mower deck with (2) 3/8 x 2 1/4" (57 mm) bolts, (4) 3/8" (10 mm) flat washers, and (2) 3/8" locknuts.
- IMPORTANT: Make certain to use washers under the heads of the two bolts, under the mower deck.**
7. Tighten the rear bolt of the cover plate.

8. An extra decal is included with the bagger because the counterweight covers the original decal. Clean the mower deck surface and place this decal on the mower deck near, but not under the counterweight (Fig. 9).

### Install the Mower Deck Counterweight (Use the instructions for decks without washout port)

1. Position the mower deck counterweight on the left-hand side of the mower so that it fits snuggly against the side of the mower (Fig. 10).
2. Using a punch in the holes of the counterweight, mark the location for drilling (2) 13/32" holes. Remove the counterweight and drill the holes.
3. Secure the counterweight to the top of the mower deck with (2) 3/8 x 2-1/4 (57 mm) bolts, (4) 3/8" (10 mm) flat washers, and (2) 3/8" locknuts.

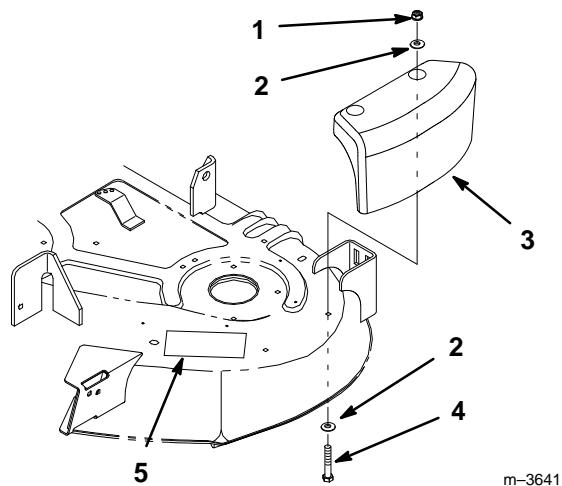


Figure 10

1. Locknut, 3/8"	4. Bolt, 3/8 x 2-1/4" (57 mm)
2. Flat washer, 3/8" (10 mm)	5. Danger decal
3. Counterweight	

4. An extra decal is included with the bagger because the counterweight covers the original decal. Clean the mower deck surface and place this decal on the mower deck near, but not under, the counterweight (Fig. 10).

### Install the Blower Pulley onto the Mower

1. Remove the mower belt cover from the right side pulley (Fig. 11).
2. Remove the spindle pulley nut. Block the blade with a piece of wood or some other device to stop it from turning while you remove the pulley nut.
3. Thread the new blower pulley onto the spindle shaft in place of the pulley nut (Fig. 11). Torque the pulley to 50–75 ft-lbs (68–102 Nm).

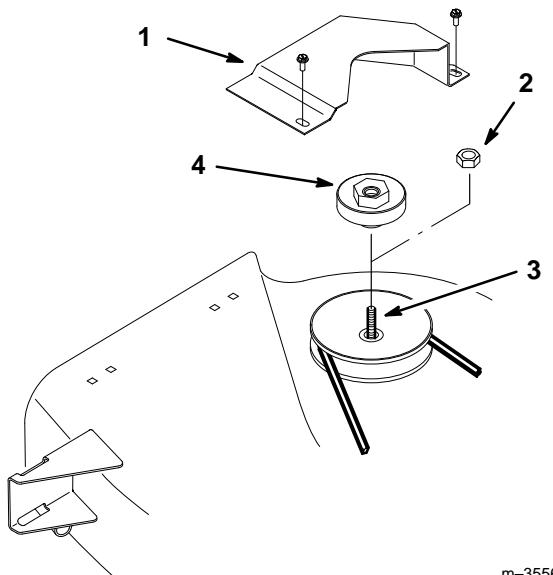


Figure 11

1. Belt cover	3. Spindle shaft
2. Nut	4. Blower pulley

## Installing the Vac-Bagger onto the Tractor

### Assemble the Bagger

1. Install the “full-bag” indicator rod through the hole in the rubber seal and the slot in the bagger cover (Fig. 8). Mount the full-bag indicator rod against the bagger cover using two clips, 1/4 x 3/4” (19 mm) screws, and 1/4” locknuts (Fig. 12).
2. Screw the jam nut completely onto the indicator rod (Fig. 8). Then screw the handle (Fig. 8) close to the jam nut so you can read the decal from the operator’s position. Tighten the jam nut up against the handle to lock it in place.

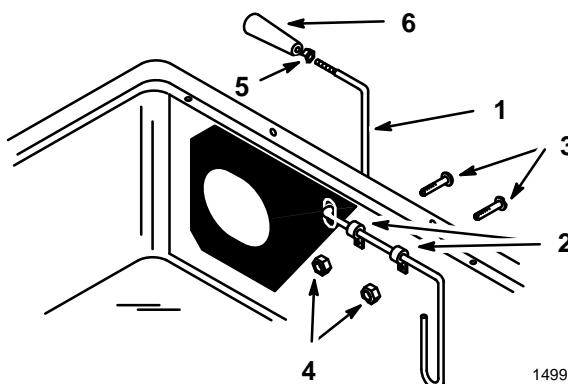


Figure 12

1. Indicator rod	4. Locknut, 1/4"
2. Clips	5. Jam nut
3. Screw, 1/4 x 3/4" (19 mm)	6. Handle

3. Assembly the frame assembly to the bagger cover with (2) 1/4” locknuts (Fig. 13).

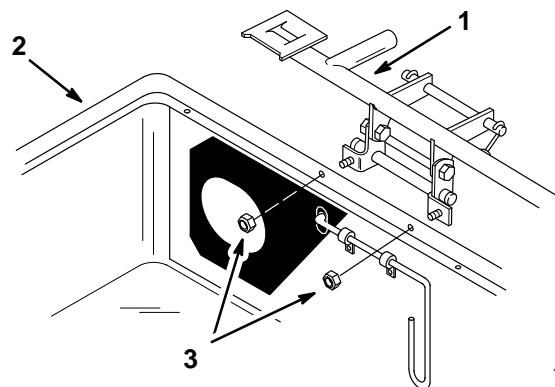


Figure 13

1. Frame assembly	3. Locknut, 1/4"
2. Bagger cover	

### Install the Blower Pivot Support

1. Locate the pivot support on the mower over square holes near the discharge opening (Fig. 14).
2. Push the vertical side (front) of the pivot support against the front of the mower and clamp it snugly, making sure the top of the pivot support lies flat on the top of the mower.
3. Secure the pivot support to the top of the mower with a 5/16 x 4-1/2" (114 mm) bolt, spacer tube, 5/16" x 7/8" (19 mm) carriage bolt, and 5/16" locknuts (Fig. 14).
4. Secure the pivot bracket to the pivot support with (2) 5/16" (8 mm) washers and (2) 5/16" locknuts (Fig. 14).

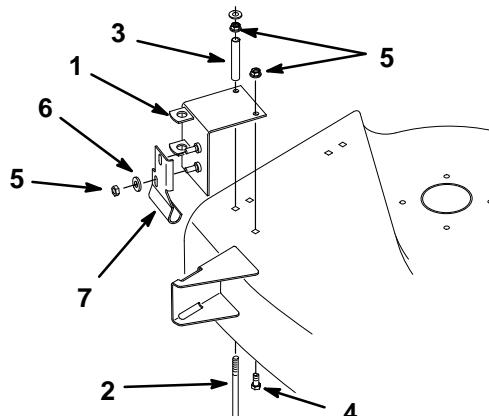


Figure 14

m-2017

1. Pivot support
2. Carriage bolt, 5/16 x 4-1/2" (114 mm)
3. Spacer Tube
4. Carriage bolt, 5/16 x 7/8" (19 mm)
5. Locknut, 5/16"
6. Washer, 5/16" (8 mm)
7. Pivot bracket

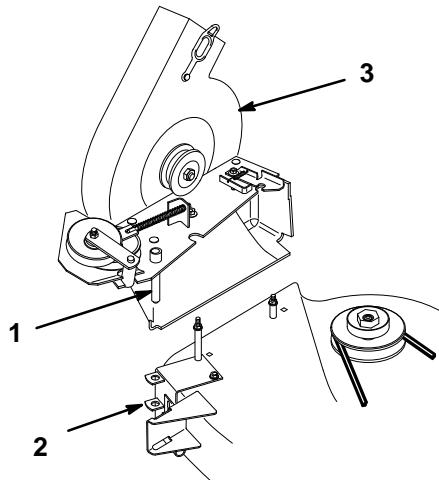


Figure 15

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1. Pivot pin
2. Pivot support
3. Blower assembly

## Install the Mower to Tractor

1. Refer to the Mower Operator's Manual for instructions.

## Install the Blower and Blower Belt

1. Install the blower by lowering the pivot pin into the pivot support (Fig. 15).

2. Open latch and swing the blower out away from the mower, install the blower belt around idler and blower pulleys as shown (Fig. 16).

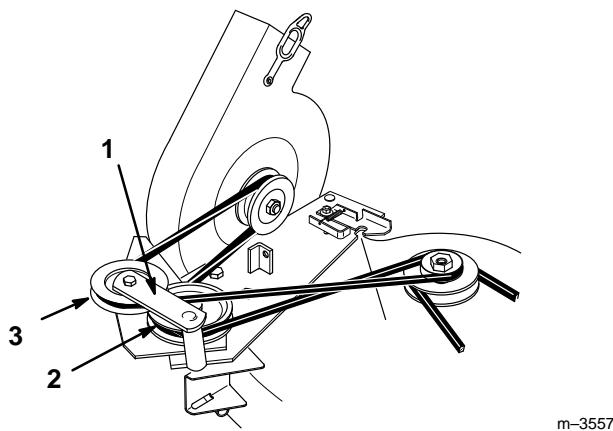


Figure 16

1. Idler pulley bracket and pulley
2. Top side of belt against bottom pulley
3. V-side of belt into top pulley

3. With the belt installed, swing the blower toward the mower until the blower latch locks over the pin at the back of the mower (Fig. 17).

**IMPORTANT: You may have to lift the blower slightly for the latch to close. MAKE CERTAIN THAT THE LATCH OPERATES SMOOTHLY AND CLOSES COMPLETELY.**

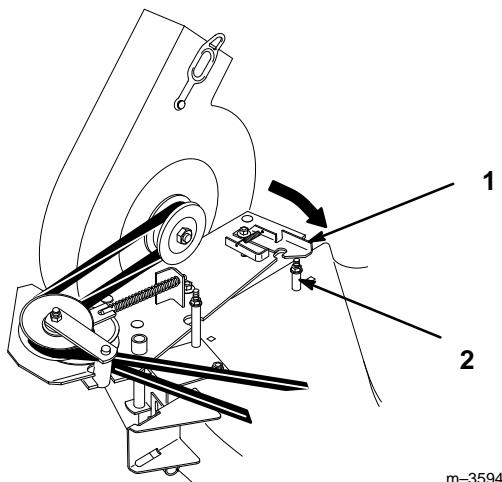


Figure 17

1. Blower latch
2. Pin

## Install the Blower Belt Cover

1. Install the blower belt cover using (4) washers and (2) knobs (Fig. 18).

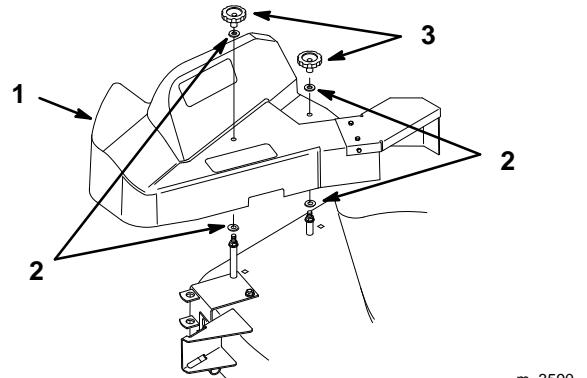


Figure 18

1. Blower belt cover
2. Knob
3. Washer

## Install the Bagger

1. Seat the rod ends of the quick-attach bracket down into the two grooves in the bagger hitch, with the two feet of the bracket resting on the tractor hitch. Secure the bracket to the hitch with (2) hairpin cotters (Fig. 19).

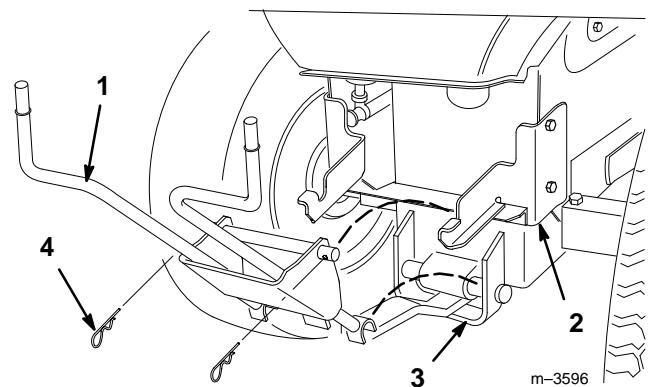
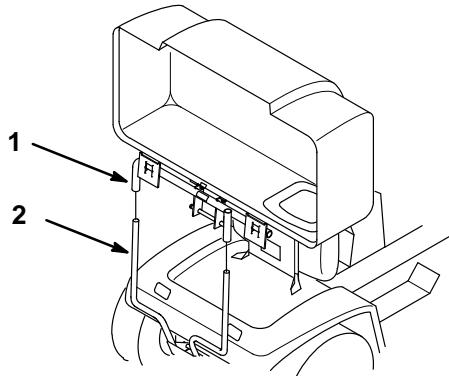


Figure 19

1. Quick-attach bracket
2. Bagger hitch
3. Tractor hitch
4. Hairpin cotter

2. Tip the tractor seat forward.

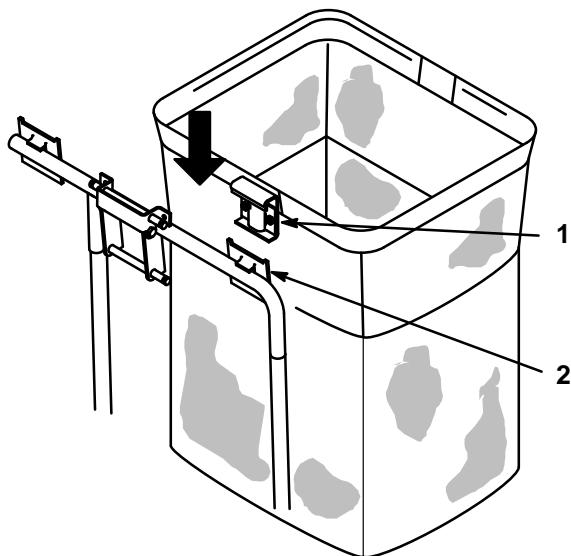
3. Carefully lift the bagger top and slide it onto the quick-attach bracket (Fig. 20).



m-1845

**Figure 20**

1. Bagger top      2. Quick-attach bracket



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**Figure 21**

1. Bag frame hook      2. Retaining bracket

## ! CAUTION

### POTENTIAL HAZARD

- The hinge frame on the bagger top is spring-loaded.

### WHAT CAN HAPPEN

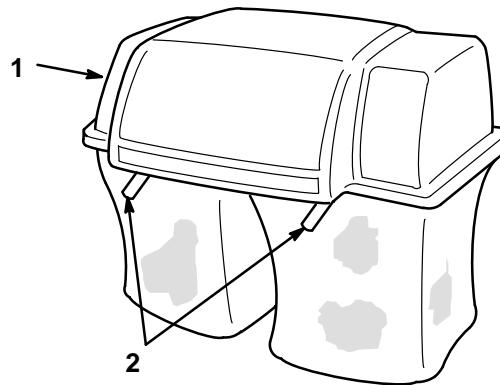
- If you remove the bagger top when it is closed (in the down position), the top may suddenly fly open and you or someone else may be bruised, pinched, or injured in another way.

### HOW TO AVOID THE HAZARD

- Always open (raise) the bagger top before you remove or install it on the quick-attach bracket.

4. Install the bags by sliding the bag frame hooks onto the retaining brackets (Fig. 21).

5. Lower the bagger top onto the bags. Then push down on both bag retainer handles until they lock on the bag frame (Fig. 22).



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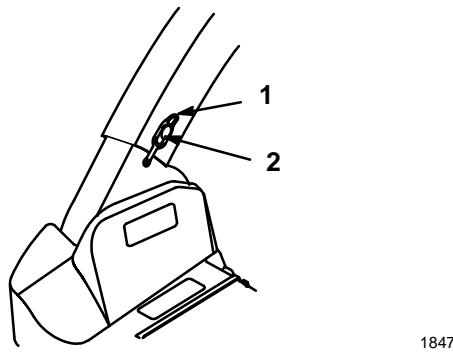
**Figure 22**

1. Bagger top      2. Bag retainer handles

6. Move the tractor seat to its normal position.

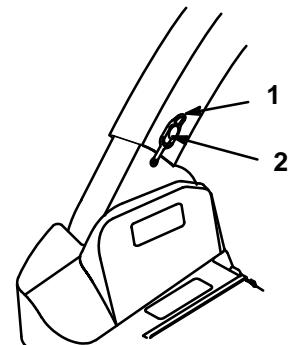
## Mount the Discharge Tube

1. Insert the upper end of the discharge tube into the bagger top. Slide the lower end of the discharge tube over the blower discharge opening (Fig. 23).
2. Hook the rubber latch onto the knob (Fig. 23).



**Figure 23**

1. Rubber latch      2. Knob



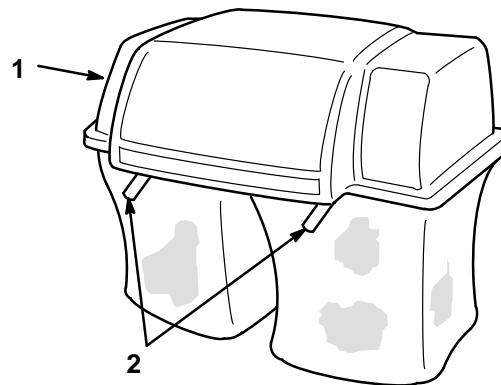
**Figure 24**

1. Rubber latch      2. Knob

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## Remove the Bagger

1. Tip the tractor seat forward.
2. Raise the bagger top and remove the grass bags from the bag frame (Fig. 25).



**Figure 25**

1. Bagger top      2. Bag retainer handles

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3. Carefully lift the bagger top and slide off the quick-attach bracket (Fig. 26).

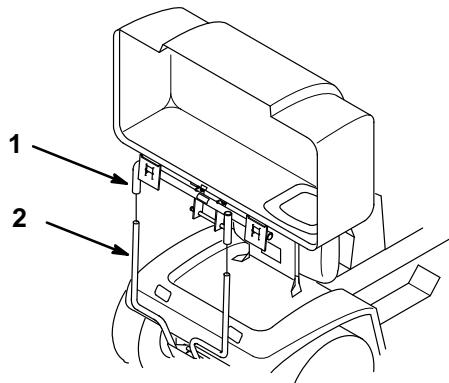


Figure 26

1. Bagger top      2. Quick-attach bracket

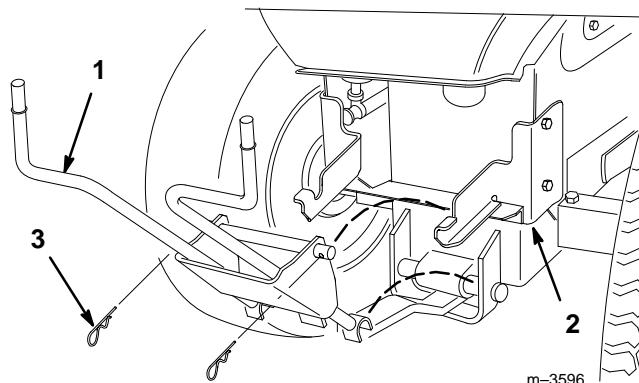


Figure 27

1. Quick-attach bracket      3. Hairpin cotter  
2. Bagger hitch

## ! CAUTION

### POTENTIAL HAZARD

- The hinge frame on the bagger top is spring-loaded.

### WHAT CAN HAPPEN

- If you remove the bagger top when it is closed (in the down position), the top may suddenly fly open and you or someone else may be bruised, pinched, or injured in another way.

### HOW TO AVOID THE HAZARD

- Always open (raise) the bagger top before you remove or install it on the quick-attach bracket.

4. Remove the hairpin cotters from the holes at the bottom of the quick-attach bracket (Fig. 27).
5. Lift the quick-attach bracket from the hitch (Fig. 27).

6. Move the tractor seat to its normal position.

### Remove Blower Belt Cover

1. Remove the blower belt cover by removing (2) knobs and (4) washers (Fig. 28).

**Note:** Save all parts and hardware for use when installing the blower.

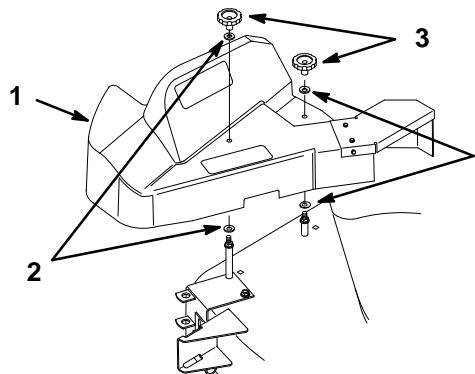


Figure 28

1. Blower belt cover      3. Knob  
2. Washer

## Remove the Blower from the Mower

1. Open the latch and swing the blower out away from the mower. Remove the blower belt from idler and blower pulleys (Fig. 29).

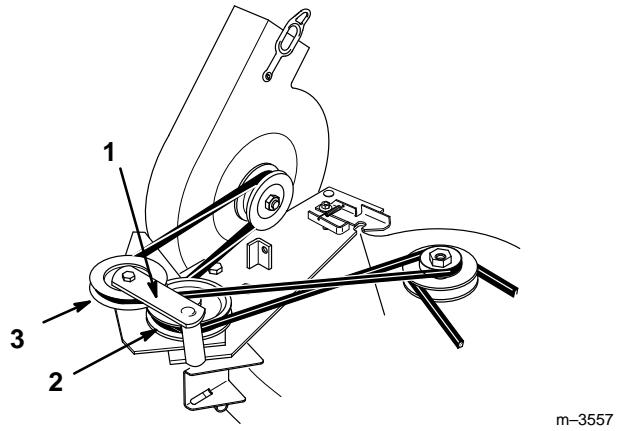


Figure 29

1. Idler pulley bracket and pulley
2. Top side of belt against bottom pulley
3. V-side of belt into top pulley

2. Remove the blower by lifting the pivot pin out of the pivot support (Fig. 30).

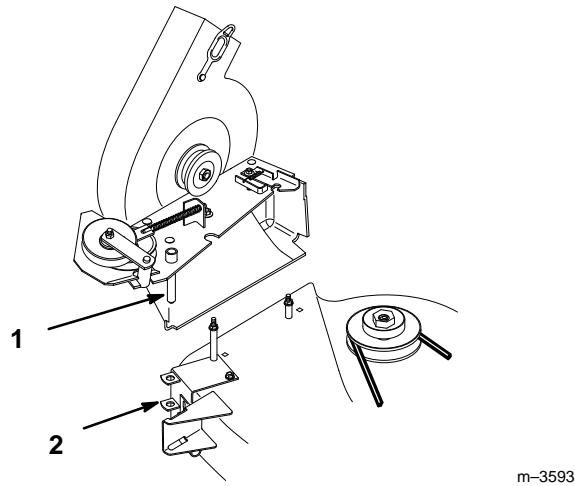


Figure 30

1. Pivot pin
2. Pivot support

## Remove the Blower Pulley from the Mower

1. Remove the blower pulley. Block the blade with a piece of wood or some other device to stop it from turning while you remove the pulley.
2. Thread the spindle pulley nut onto the spindle shaft in place of the pulley (Fig. 11). Torque the nut to 50–75 ft-lbs (68–102 Nm).
3. Install the belt cover using existing hardware (Fig. 31).

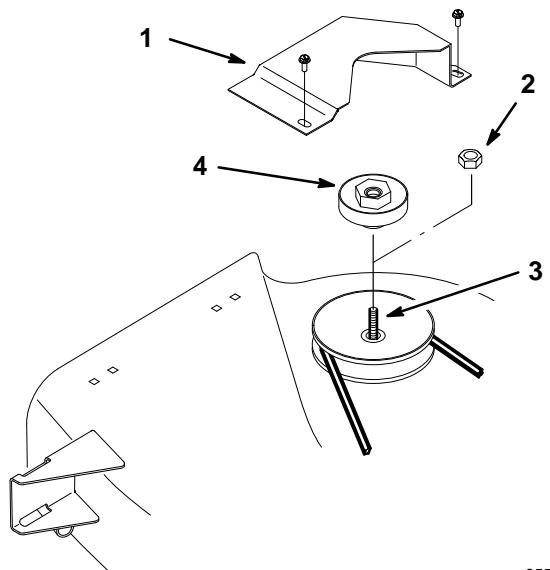


Figure 31

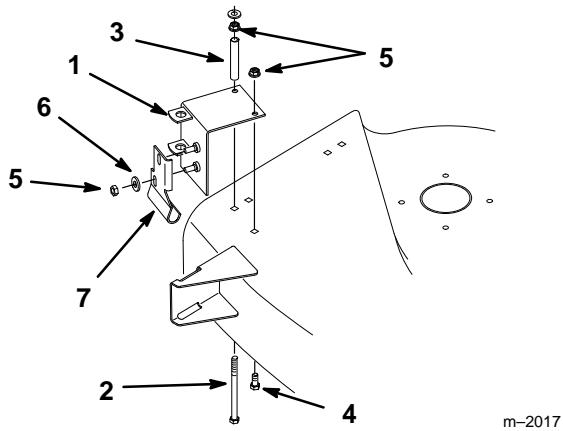
1. Belt cover
2. Nut
3. Spindle shaft
4. Blower pulley

## Removing the Vac-Bagger from the Tractor

### Remove the Blower Pivot Support

1. Remove the mower from the tractor; refer to Mower Operator's Manual.
2. Remove the pivot support and pivot bracket from the mower (Fig. 32).

**Note:** Save all parts and hardware for use when installing blower.



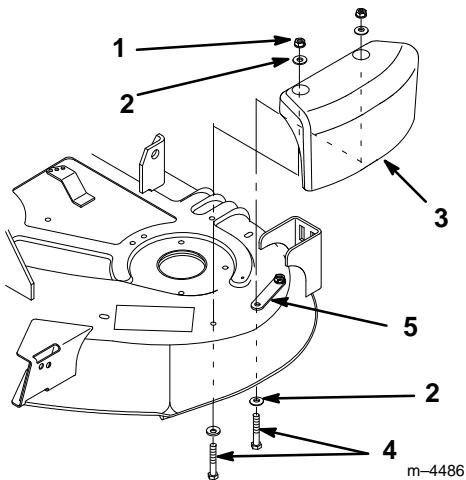
**Figure 32**

1. Pivot support	5. Locknut, 5/16"
2. Carriage bolt, 5/16 x 4 1/2" (114 mm)	6. Washer, 5/16" (8 mm)
3. Spacer tube	7. Pivot bracket
4. Carriage bolt, 5/16 x 7/8" (22 mm)	

### Remove the Mower Deck Counterweight

1. Remove the counterweight from the left-hand side of the mower (Fig. 33).

**Note:** Save all parts and hardware for use when installing the blower.



**Figure 33**

1. Locknut, 3/8"	5. Cover plate (applicable only if equipped with washout port)
2. Flat washer, 3/8" (10 mm)	
3. Counterweight	
4. Bolt, 3/8 x 2-1/4" (57 mm)	

2. Remove the cover plate (Fig. 33) and reinstall the washout port (if previously removed when the vac-bagger was installed) (Fig. 34).
3. For safety, install (2) 3/8 x 3/4" (19 mm) bolts and (2) 3/8" locknuts, furnished with the vac-bagger, in the open holes on the mower deck where the counterweight was mounted. (Fig. 34).

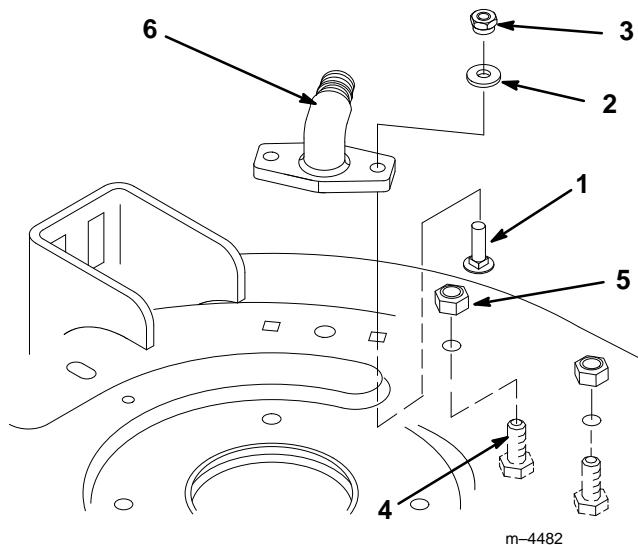


Figure 34

1. Bolt, 1/4-20 x 3/4" (19 mm)	4. Bolt, 3/8-16 x 3/4" (19 mm)
2. Flat washer, 1/4"	5. Locknut, 3/8"
3. Nut, 1/4-20	6. Washout port

## Remove the Grass Baffles

1. Remove the grass baffle inside the front lip of mower (Fig. 35).

**Note:** Reinstall hardware to fill holes in mower where the baffle was installed.

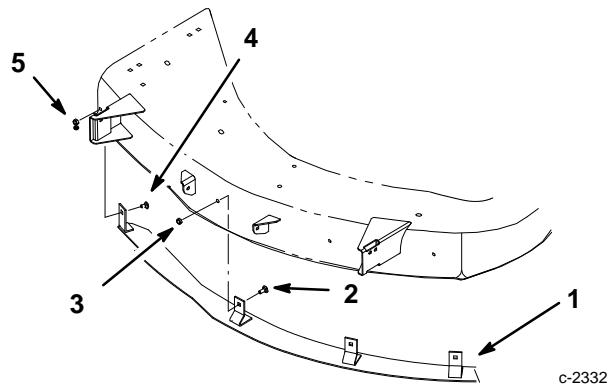


Figure 35

1. Grass baffle	4. Carriage bolt, 5/16 x 1/2" (13 mm)
2. Carriage bolt, 5/16 x 7/8" (19 mm)	5. Locknut (thin), 5/16"
3. Locknut, 5/16"	



## DANGER

### POTENTIAL HAZARD

- Open holes in the mower expose you and others to thrown debris.

### WHAT CAN HAPPEN

- Debris thrown out of holes in the mower can cause injury.

### HOW TO AVOID THE HAZARD

- Never operate mower without hardware mounted in all holes in mower.
- Install hardware in mounting holes when recycle baffle is removed.



## DANGER

### POTENTIAL HAZARD

- Open holes in the mower expose you and others to thrown debris.

### WHAT CAN HAPPEN

- Debris thrown out of holes in the mower can cause injury.

### HOW TO AVOID THE HAZARD

- Never operate the mower without hardware mounted in all holes in the mower.
- Install hardware in the mounting holes when the recycle baffle is removed.

## Install Standard-lift Blades

1. Install standard-lift blades for side discharging in place of hi-lift blades. Refer to Mower Operator's Manual; Cutting Blade.

**Note:** The hi-lift blades are also used for Recycler® mowers.

2. Remove the rear grass baffle and grass ring from inside the discharge chute area (Fig. 36).

**Note:** Save all parts and hardware for use when installing blower.

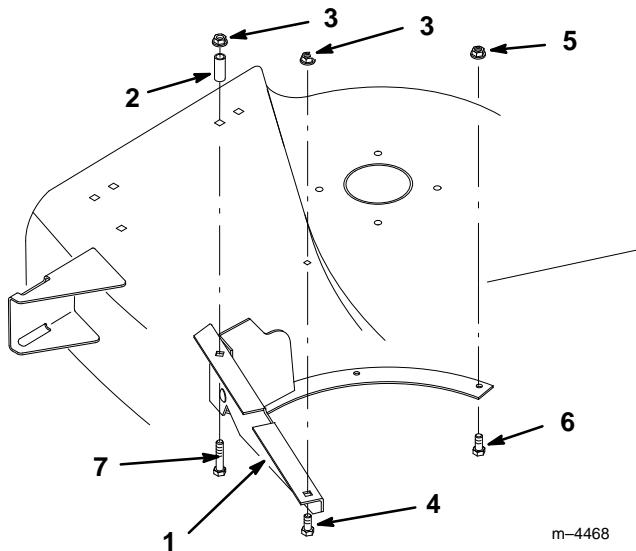


Figure 36

1. Rear grass baffle and ring	5. Locknut ,1/4"
2. Latch tube	6. Screw, 1/4 x 3/4" (19mm)
3. Locknut, 5/16"	7. Carriage bolt, 5/16 x 2 1/2" (64 mm)
4. Carriage bolt, 5/16 x 7/8" (22 mm)	

## Install the Recycling Baffles

If you have a recycling mower deck, you must install the recycling baffles to use the mower as a Recycler®.

1. Thoroughly clean the mower. All debris must be removed to ensure the baffle will fit properly against the cutting chamber.
2. Remove the (2) carriage bolts, washers, and locknuts from the slotted holes of the mower (Fig. 37).
3. Thread a 5/16 x 1-1/4" (32 mm) bolt through each baffle as shown in Fig. 37, and thread a 5/16" nut on the end of each bolt.
4. Now secure the left-hand baffles to the mower with two Belleville washers and 5/16" locknuts (Fig. 4).
5. Secure the right-hand baffle to the mower with two washers and knobs.
6. Tighten all mounting hardware securely.
7. Rotate the blades to assure there is at least 1/8" clearance between the blades and the baffle.

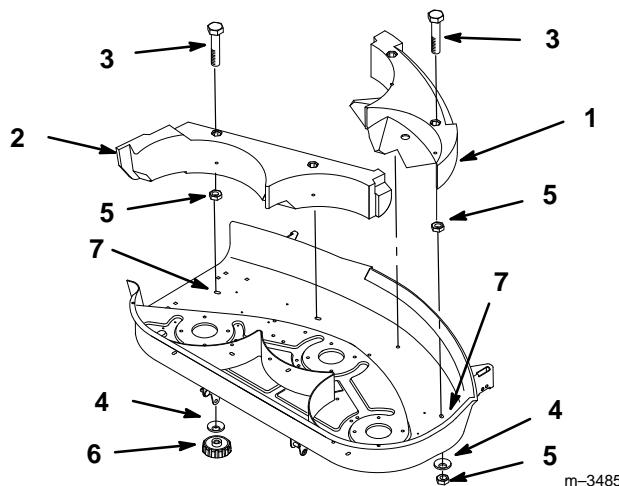


Figure 37

1. Baffle left side	5. Locknut , 5/16"
2. Baffle right side	6. Knob
3. Bolt, 5/16 x 1-1/4" (32 mm)	7. Slotted hole
4. Belleville washer—concave side toward deck surface	

## Install the Discharge Chute

1. Install mounting brackets onto the mower with 5/16 x 3/4" (19 mm) carriage bolts and 5/16" locknuts (Fig. 38).
2. Place springs into brackets on mower with hooked ends over raised back (Fig. 38).
2. Align the discharge chute with holes in brackets and spring straight ends in space under hinge and above chute (Fig. 38).
3. Secure the chute to the bracket with bolts through the discharge chute, springs and brackets. Secure with locknuts (Fig. 38).
4. Lift the discharge chute and check that it is spring loaded and pivots freely to the full down position.

**IMPORTANT: Discharge chute must be spring loaded in the down position. Lift the chute up to test that it snaps to the full down position.**

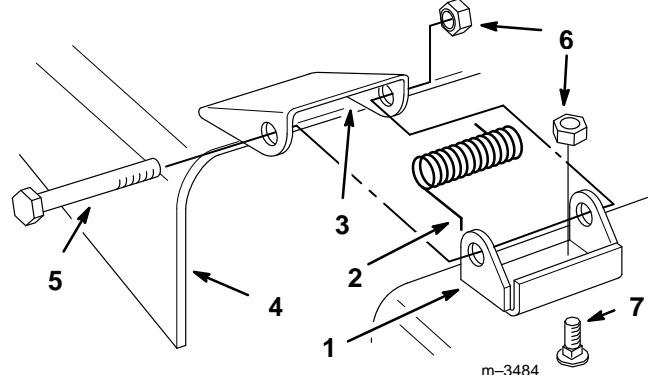


Figure 38

1. Bracket	5. Bolt
2. Spring hook end	6. Lock nut
3. Space for spring	7. Carriage bolt
4. Discharge chute	

 **DANGER**

**POTENTIAL HAZARD**

- Without the discharge chute, mulch baffle, or complete grass catcher assembly mounted in place, you and others are exposed to blade contact and thrown debris.

**WHAT CAN HAPPEN**

- Contact with rotating mower blade(s) and thrown debris will cause injury or death.

**HOW TO AVOID THE HAZARD**

- NEVER remove the discharge chute from the mower because the discharge chute routes material down toward the turf. If the discharge chute is ever damaged, replace it immediately.
- Never put your hands or feet under the mower.
- Never try to clear discharge area or mower blades unless you move the power take off (PTO) to “OFF” and rotate the ignition key to “OFF.” Also remove the ignition key and pull the wire(s) off the spark plug(s).

5. Install mower onto tractor. Refer to Mower Operator’s Manual.

# Operation

## ⚠ CAUTION

### To Avoid Personal Injury:

- Become familiar with all operating and safety instructions in the operator's manual for your tractor and mower before using this attachment.
- Never remove the discharge tube, bags, bagger top, or the blower while the engine is running.
- Always shut the engine off and remove the ignition key before clearing an obstruction from the vac-bagging system.
- Never do maintenance or repairs while the engine is running.

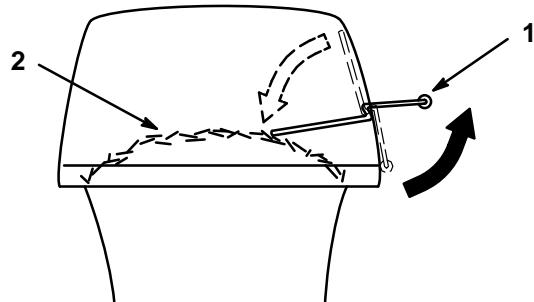


Figure 39

1 Full bag tester handle      2 Bag full

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## Emptying the Grass Bags

Grass bags can weigh up to 90 lb (41kg) when full. Be careful when lifting or handling a grass bag that is full. To empty the grass bags:

### Using the Full Bag Tester

As grass is cut and blown into the bags, the left bag fills first, then the right bag. If you overfill the bags, grass will eventually plug the discharge tube or elbow.

1. Stop the tractor and apply the brake.
2. To check if both bags are full, periodically raise the full bag tester handle (Fig. 39). If you feel resistance as you raise the handle, the bags must be emptied because they are full (Fig. 39).

1. Stop the tractor, set the parking brake, lower the attachment lift, disengage the power take off (PTO), and turn the ignition key to "STOP" to stop the engine. Remove the ignition key.
2. Tip the tractor seat forward.
3. Pull up on both bag retainer handles until they unlock from the bag frame (Fig. 22). Now open (raise) the bagger top.
4. Compress debris into the bags. With both hands, lift up on the bag and unhook it from the retaining bracket (Fig. 21). Empty the bag. Repeat for the other bag.
5. Install the bags by sliding the bag frame hooks onto the retaining brackets (Fig. 21).
6. Lower the bagger top onto the bags. Then push down on both bag retainer handles until they lock on the bag frame (Fig. 22).
7. Move the tractor seat to its normal position.

## Clearing Obstructions from the Bagger

1. Stop the tractor, set the parking brake, lower the attachment lift, and turn the ignition key to "STOP" to stop the engine. Remove the ignition key.
2. Check the grass bags and empty them if they are full.
3. Remove and separate the discharge tube and blower from the bagger top and mower. Using a stick or similar object, carefully remove and clear the obstruction from the mower, discharge tube, blower, and the bagger top.
4. After you remove the obstruction, install the complete bagger system and resume operation.

## Operating and Bagging Tips

### Size

Remember that the tractor 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's blower 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 doesn't get under the mower, the bagging system will plug.

### Cutting Frequency

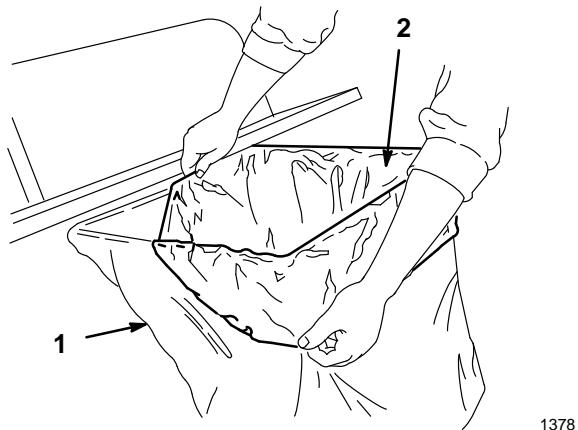
Cut the grass often, especially when it grows rapidly. You will have to cut your grass twice if it gets excessively long (refer to Bagging Long Grass, page 25).

### 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 blower and discharge tube.

### Using Bags

Although not required, bags may be inserted into each cloth grass bag as a liner to collect clippings and make disposal more convenient (Fig. 40). If you use a bag liner, remove the filled grass bag and close the top of the liner. Then pull the liner out the grass bag or turn the bag upside down while holding the handle on the bottom of the grass bag (allows liner to slide out).



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Figure 40

1 Cloth grass bag

2 Bag (liner)

### Bagging Speed

Most often you will bag with the tractor 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 throttle speed and increase ground speed of the tractor. 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 tractor's ground speed. This helps maintain engine speed and bagging efficiency. Mow down hill whenever possible.

## CAUTION

### POTENTIAL HAZARD

- As the grass bags fill, extra weight is added to the back of the tractor.

### WHAT CAN HAPPEN

- If you stop and start suddenly on hills, you may lose steering control or the tractor may tip.

### HOW TO AVOID THE HAZARD

- Do not start or stop suddenly when going uphill or downhill. Avoid uphill starts.
- If you do stop the tractor when going uphill, disengage the PTO (stop the mower blades) by pushing the PTO control to OFF. Then back down the hill using slow reverse speed.
- Do not change speeds or stop on slopes.

### 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 blower 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 clipping blow-out indicates that the bags are full or the system is plugged.

# Maintenance

## Inspecting the Bagger Attachment

Inspect the bagger attachment after the first ten hours of operation, and monthly thereafter.

1. Check the blower, discharge tube and the bagger top. Replace these parts if they are cracked or broken.
2. Tighten all nuts bolts and screws.
3. Inspect the grass bags for deterioration.

### DANGER

#### POTENTIAL HAZARD

- The grass bag material may tear, wear, and eventually deteriorate.

#### WHAT CAN HAPPEN

- You or bystanders could be severely injured by flying debris or thrown objects that may pass through worn or deteriorated grass bags.

#### HOW TO AVOID THE HAZARD

- Frequently check the grass bags for holes, rips, wear, and other deterioration. Do not wash the grass bags. If the bag has deteriorated, install new grass bags supplied by the manufacturer of this bagger attachment.

## 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 tractor or mower operator's manual for complete blade maintenance.

## Caring for the Grass Bags

1. Washing the grass bags is not recommended.
2. To prevent rapid deterioration of bag material, store the bags so they dry completely after each use.

### CAUTION

#### POTENTIAL HAZARD

- If you store grass clippings in the bagger attachment cloth grass bags, under the right conditions, spontaneous combustion (a fire-generating process that occurs without an external source of ignition) could occur.

#### WHAT CAN HAPPEN

- If a fire occurs, property could be damaged and/or someone could be injured.

#### HOW TO AVOID THE HAZARD

- The cloth grass bags are not storage containers. Never store grass clippings and debris in the grass bags.

## Cleaning the Bagger Attachment

1. After each use, remove and wash the inside and outside of the bagger top, discharge tube, blower, and the underside of the mower, using water sprayed from a garden hose. Use a mild automotive detergent to remove stubborn dirt.
2. Make sure you remove matted grass from all parts.
3. After washing let all parts dry thoroughly. Do not wash the grass bags.

## Storing the Bagger Attachment

1. Clean the bagger attachment (refer to Cleaning the Bagger Attachment, page 26).
2. Inspect the bagger attachment for damage (refer to Inspecting the Bagger Attachment, page 26).
3. Make sure 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.





