



Boot and Tube Kit

200 Series Z Master 62" Mowers

Model No. 78495

Form No. 3328–360 Rev A

Installation Instructions

Set Up

Loose Parts

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

Description	Qty.	Use
Rear baffle—right	1	Installing the rear baffles
Rear baffle—left	1	
Rear baffle—center	1	
Bolts, 5/16 x 5/8 in.	5	
Flange nuts, 5/16 in.	5	
Bolts, 1/4 x 5/8 in.	6	
Flange nuts, 1/4 in.	6	
Tunnel baffle—front	1	Installing the tunnel baffles
Tunnel baffle—rear	1	
Tunnel baffle—center	1	
Carriage Bolt, 5/16 x 5/8 in.	7	
Flange nuts, 5/16 in.	8	
Bolt, 5/16 x 3/4 in.	1	
Lower bagger tube	1	Installing the bagging tubes
Upper bagger tube	1	
Tube clamp	1	
Boot assembly	1	
Blade stiffener	3	Installing the blades

Checking for existing holes in the Mower

If there are any existing holes in the mower, you can skip the steps for drilling holes for that specific baffle installation.

1. Before installing any baffle check for existing holes. The holes **must** align with the baffle in it's **correct** position.

Note: Make sure the holes in the mower align with the baffle in it's **correct** position.

Removing the Grass Deflector Bracket

Note: This section is only for mowers with grass deflector bracket welded to the mower (Fig. 3).

1. Remove the grass deflector bracket from the mower as shown in Figure 3. This will avoid any interference with the rear tunnel baffle.

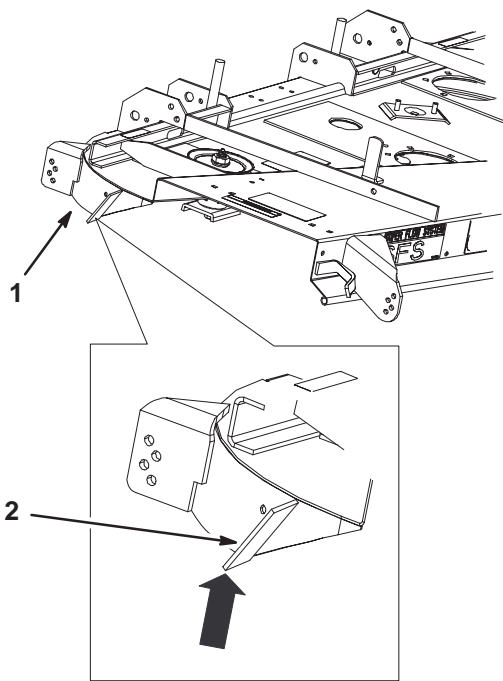


Figure 1

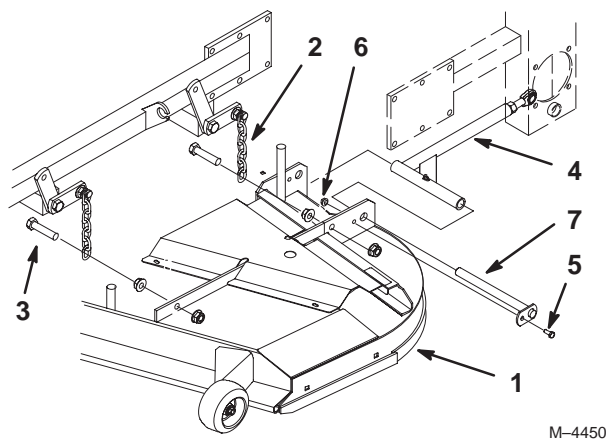
1. Mower
2. Remove grass deflector bracket

m-6169

Removing the Mower

Note: If the machine is removed from the machine, it will need to be leveled when installed.

1. Lower the mower onto wood blocks.
2. Remove the four bolts at the bottom of the chains that attach to the mower (Fig. 2).
3. Remove the nuts and bolts, that hold the pins, in the push arms (Fig. 2).
4. Remove the pins (Fig. 2).
5. Raise height-of-cut lever and slide mower rearward. This will loosen the PTO belt.
6. Remove the PTO belt from the mower.
7. Slide the mower out from under the machine (Fig. 2).



M-4450

Figure 2

1. Mower
2. Chain
3. Chain Bolt
4. Push Arm
5. Push Arm Bolt
6. Push Arm Nut
7. Push Arm Pin

Before Installation

1. Tip mower upside down and block up ends to ease installation of components.
2. Thoroughly clean the mower. All debris must be removed to ensure baffles will fit properly against mower.
3. Repair all bent or damaged areas of mower and replace any missing parts.

Removing Existing Blades

1. Remove the existing blades from the spindles.



Warning



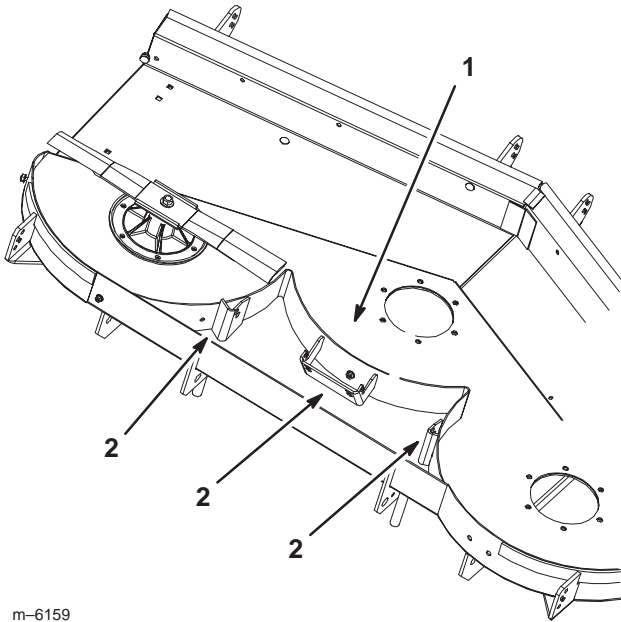
Contact with sharp blade can cause serious personal injury.

- **Wear gloves or wrap sharp edges of the blade with a rag.**

Removing the Cutting Chamber Brackets

Note: This section is only for mowers with brackets welded to the cutting chamber (Fig. 3).

1. Remove the three cutting chamber brackets from the mower (Fig. 3).
2. Grind the welds flat on rear part of the cutting chambers. This will allow the correct fit for the cutting chamber baffles.



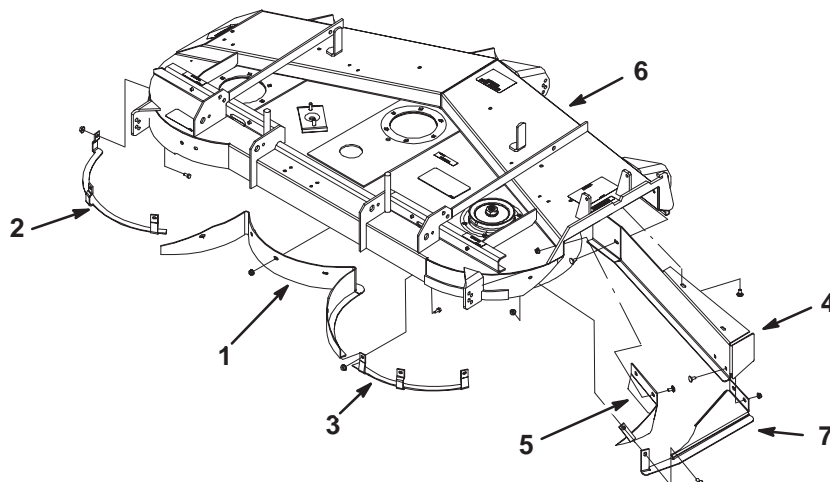
m-6159

Figure 3

1. Cutting chamber 2. Cutting chamber stiffener

Installing the Rear Mower Baffles

Note: Use figure 4 for an over all view of where to install the baffles.



m-5884

Figure 4

- | | | | |
|-----------------------|------------------------|-----------------------|-------------------------|
| 1. Center rear baffle | 3. Right rear baffle | 5. Rear tunnel baffle | 7. Center tunnel baffle |
| 2. Left rear baffle | 4. Front tunnel baffle | 6. Front of mower | |

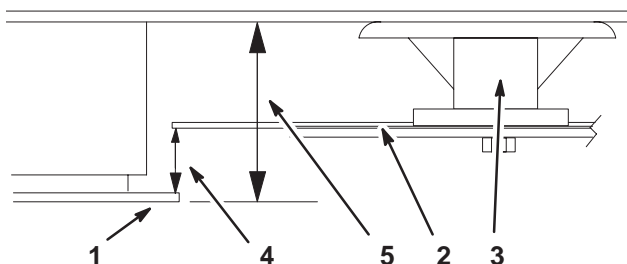
Installing the Center Rear Baffle

A right angle drill will be needed to perform this installation.

Note: If present, use existing holes for installing this baffle. Make sure the existing holes match the holes in the baffle.

1. Place the center rear baffle behind the rear cutting blade chamber (Fig. 6).
2. Align the center rear baffle so the baffle flange is 3-5/8 in. (92 mm) from the top of the cutting chamber (Figures 5 and 7).

Important Make sure the baffle flange is 3-5/8 in. (92 mm) from the top of the cutting chamber **at all locations** (Figures 5 and 7).



m-5942

Figure 5

- | | |
|------------------|--|
| 1. Baffle flange | 4. Blade clearance, 1/2 ±1/16 in. |
| 2. Blade | 5. Baffle to top of cutting chamber, 3-5/8 in. |
| 3. Spindle | |
3. Clamp the center baffle in place, tight against the cutting chamber (Fig. 6).
 4. Using the baffle as a template, drill five, 11/32 in. diameter, holes into the center cutting chamber (Fig. 6). Use a right angle drill for these holes.

5. Install the center baffle with 5 bolts (5/16 x 5/8 in.) and 5 flange nuts (5/16 in.) (Fig. 6).

Important Make sure the bolt heads are installed on the inside of the cutting chamber. See figure 6.

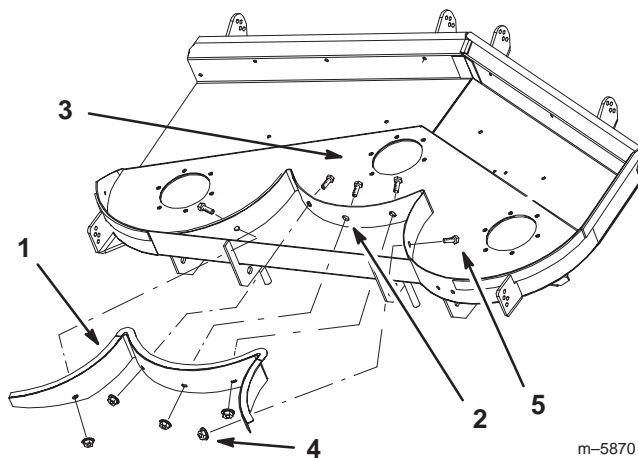
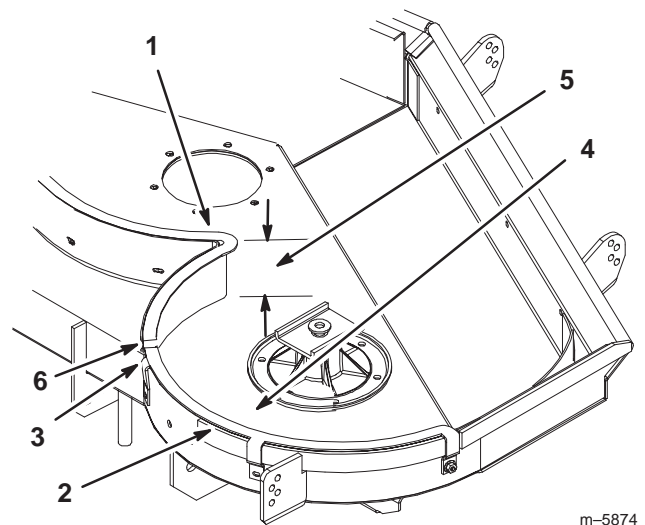


Figure 6

- | | |
|---------------------------------|--------------------------|
| 1. Center Baffle | 4. Flange nuts, 5/16 in. |
| 2. Holes to drill | 5. Bolts, 5/16 x 5/8 in. |
| 3. Center cutting blade chamber | |



m-5874

Figure 7

- | | |
|---------------------------------------|---|
| 1. Center Baffle | 5. Baffle flange to top of cutting chamber, 3-5/8 in. (92 mm) |
| 2. Left baffle | 6. 0 to 3/16 in. gap |
| 3. Flush with bottom of center baffle | |
| 4. Left cutting chamber | |

Installing the Left Rear Baffle

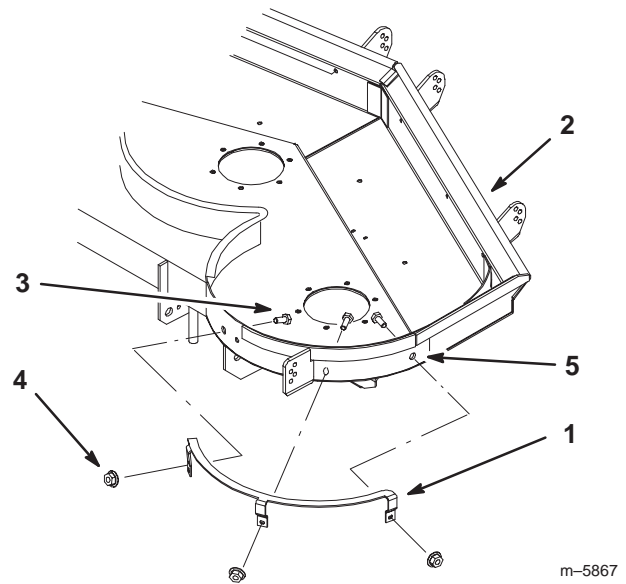
1. Place the left rear baffle behind the left cutting chamber (Fig. 7). The tabs will mount on the outside of the mower.
2. Align the left rear baffle within 3/16 in. and flush with the bottom of the center baffle (Fig. 7).
3. Position the left rear baffle so the baffle flange is 3-5/8 in. (92 mm) from the top of the cutting chamber (Fig. 5).

Important Make sure the baffle flange is 3-5/8 in. (92 mm) from the top of the cutting chamber **at all locations** (Fig. 5).

Note: If 3-5/8 in. (92 mm) can not be achieved, the bottom welds have to be ground down. Refer to Grinding the Welds on page 6.

4. Clamp the baffle in place.
5. Using the baffle as a template, drill three, 9/32 in. diameter, holes into the left cutting chamber (Fig. 8).
6. Install the left baffle with 3 bolts (1/4 x 5/8 in.) and 3 flange nuts (1/4 in.) (Fig. 8).

Important Make sure the bolt heads are installed on the inside of the cutting chamber. See figure 8.



m-5867

Figure 8

- | | |
|------------------------|------------------------|
| 1. Left rear baffle | 4. Flange nut, 1/4 in. |
| 2. Left side of mower | 5. Holes to drill |
| 3. Bolt, 1/4 x 5/8 in. | |

Installing the Right Rear Baffle

1. Place the right baffle behind the right cutting chamber (Fig. 9). The tabs will mount on the outside of the mower.

2. Align the right baffle against and flush with the bottom of the center baffle (Fig. 9).
3. Position the left rear baffle so the baffle flange is 3-5/8 in. (92 mm) from the top of the cutting chamber (Fig. 5).

Important Make sure the baffle flange is 3-5/8 in. (92 mm) from the top of the cutting chamber **at all locations** (Fig. 5).

Note: If 3-5/8 in. (92 mm) can not be achieved, the bottom welds have to be ground down. Refer to Grinding the Welds on page 6.

4. Clamp the baffle in place.
5. Using the baffle as a template, drill three, 9/32 in. diameter, holes into the right cutting blade chamber (Fig. 10).
6. Install the right baffle with 3 bolts (1/4 x 5/8 in.) and 3 flange nuts (1/4 in.) (Fig. 10).

Important Make sure the bolt heads are installed on the inside of the cutting chamber.

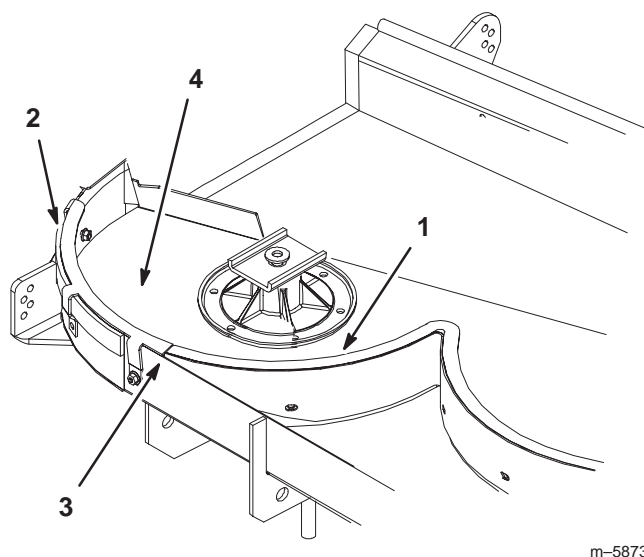


Figure 9

- | | |
|------------------|-----------------------------|
| 1. Center Baffle | 3. Flush with center baffle |
| 2. Right baffle | 4. Right cutting chamber |

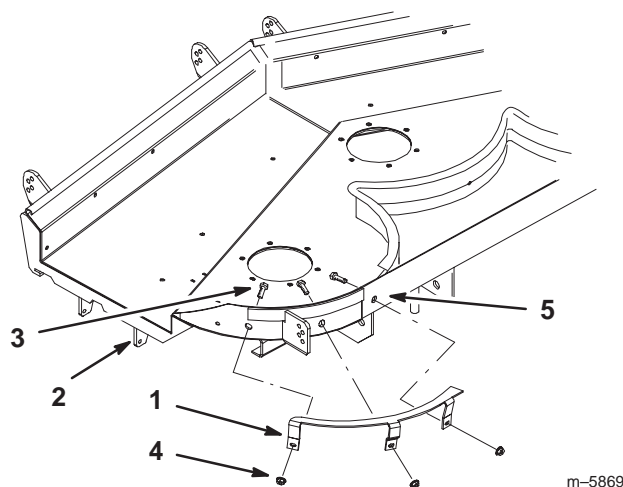


Figure 10

- | | |
|------------------------|------------------------|
| 1. Right baffle | 4. Flange nut, 1/4 in. |
| 2. Right side of mower | 5. Holes to drill |
| 3. Bolt, 1/4 x 5/8 in. | |

Grinding the Welds

Note: If 3-5/8 in. (92 mm) can not be achieved with the left and right baffles, the bottom welds have to be ground down.

1. Grind the welds flat on rear part of the mower. This will allow the correct fit for the left and right rear baffles (Fig. 11).

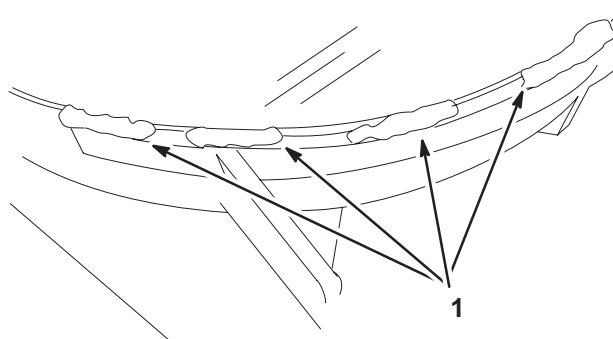


Figure 11

1. Grind welds flat

Installing the Tunnel Baffles

Installing the Rear Tunnel Baffle

Note: There is an existing hole in the side of the mower for installing the rear tunnel baffle.

1. Place the rear tunnel baffle tight against the back wall of the discharge tunnel. (Fig. 12).
2. Align tab with existing hole in the side of the mower (Fig. 12).
3. Clamp the baffle in place.
4. Using the baffle as a template, mark the hole locations in the center of the slots. Do this at both holes in the baffle (Fig. 12).
5. Remove the baffle and drill two, 11/32 in. diameter, holes into the rear wall of the discharge tunnel (Fig. 12).
6. Install the rear baffle tab to the existing hole in mower. Use a bolt (5/16 x 3/4 in.) and flange nut (5/16 in.) (Fig. 12).
7. Install the rear tunnel baffle with 2 carriage bolts (5/16 x 5/8 in.) and 2 flange nuts (5/16 in.) (Fig. 12).

Important Make sure the bolt heads are installed on the inside of the cutting chamber.

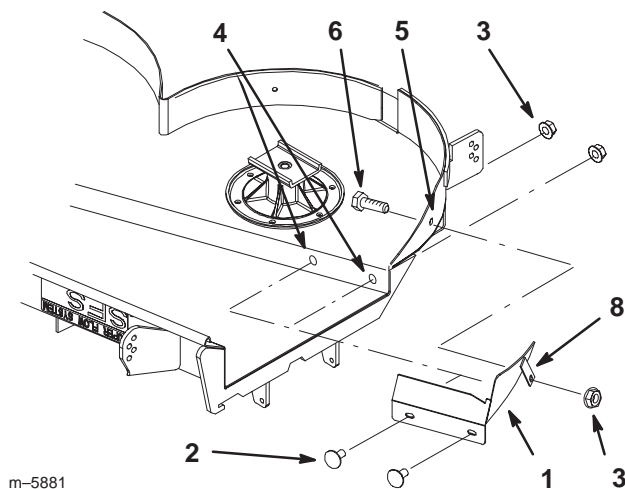


Figure 12

- | | |
|----------------------------------|-------------------------|
| 1. Rear tunnel baffle | 5. Existing hole |
| 2. Carriage Bolt, 5/16 x 5/8 in. | 6. Bolt, 5/16 x 3/4 in. |
| 3. Flange nut, 5/16 in. | 7. Existing hole |
| 4. Hole to drill | 8. Rear baffle tab |

Installing the Front Tunnel Baffle

Note: If present, use existing hole for installing this baffle. Make sure the existing hole matches the hole in the baffle.

1. Remove the existing right front blowout baffle. Save baffle and hardware for use when bagging baffles are removed.
2. Place the front tunnel baffle against the the front wall of the discharge tunnel. (Fig. 14).
3. Align the front tunnel baffle flush with the outside of the mounting bracket (Figures 13 and 15).

Bottom View

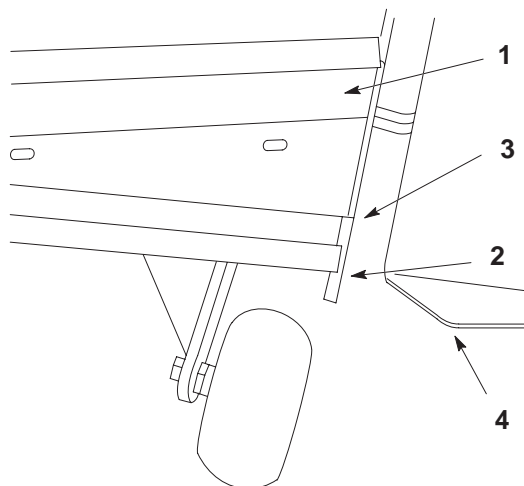


Figure 13

- | | |
|------------------------|-------------------------------------|
| 1. Front tunnel baffle | 3. Flush edge with mounting bracket |
| 2. Mounting bracket | 4. Grass deflector |

4. Clamp the baffle in place.
5. Using the baffle as a template, mark the hole locations in the center of the slots. Do this at all three holes in the front tunnel baffle (Fig. 14).
6. Remove the baffle and drill two, 11/32 in. diameter, holes into the top of the discharge tunnel (Fig. 14).
7. Drill one, 11/32 in. diameter, hole into the side of the discharge tunnel (Fig. 14).
8. Install the front tunnel baffle with 3 carriage bolts (5/16 x 5/8 in.) and 3 flange nuts (5/16 in.) (Fig. 14).

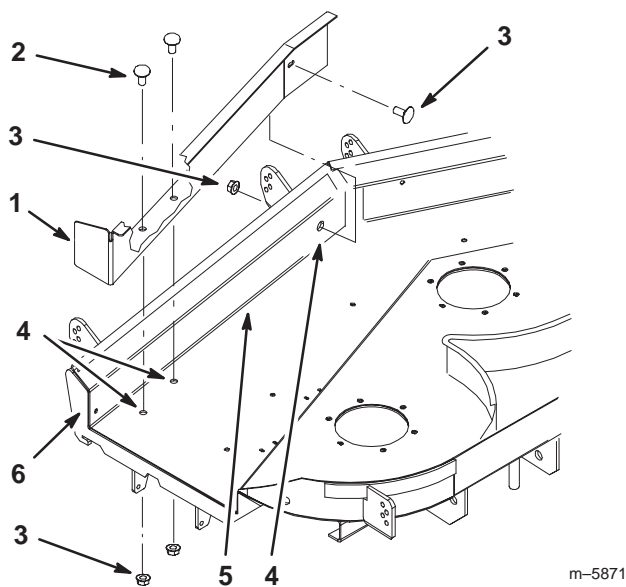


Figure 14

- | | |
|----------------------------------|---------------------|
| 1. Front tunnel baffle | 4. Hole to drill |
| 2. Carriage Bolt, 5/16 x 5/8 in. | 5. Front wall |
| 3. Nut, 5/16 in. | 6. Mounting bracket |

m-5871

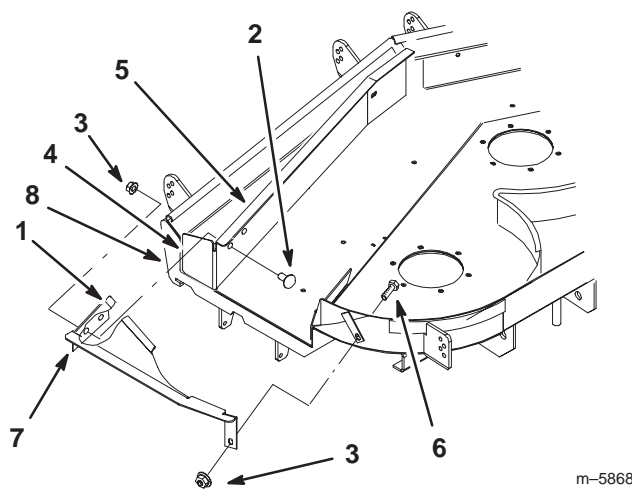


Figure 15

- | | |
|-------------------------------------|-------------------------|
| 1. Center tunnel baffle | 5. Front tunnel baffle |
| 2. Carriage Bolt, 5/16 x 5/8 in. | 6. Bolt, 5/16 x 3/4 in. |
| 3. Nut, 5/16 in. | 7. Center baffle flange |
| 4. Flush edge with mounting bracket | 8. Mounting bracket |

m-5868

Installing the Center Tunnel Baffle

Important Do not install this baffle when bagging grass, unless blowout is a problem. This baffle is highly recommended when bagging leaves.

1. Remove the bolt (5/16 x 3/4 in.) and flange nut (5/16 in.) in the rear tunnel baffle tab.
2. Place the center tunnel baffle between the front and rear tunnel baffles (Fig. 15).
3. Align the center tunnel baffle with the rear baffle tab and existing hole in mower. Secure baffle with the bolt (5/16 x 3/4 in.) and flange nut (5/16 in.) previously removed (Fig. 15).
4. Install the center tunnel baffle to the front tunnel baffle. The flange on the center baffle goes over and behind the front baffle (Fig. 15).
5. Secure the center tunnel baffle with 2 carriage bolts (5/16 x 3/4 in.) and 2 flange nuts (5/16 in.) (Fig. 15).

Installing the Blades

Note: In certain mowing conditions, improved bagging performance can be achieved by using bagging blades. Contact an Authorized Service Dealer for the proper blades for different mowing conditions.



Warning



Contact with sharp blade can cause serious personal injury.

- **Wear gloves or wrap sharp edges of the blade with a rag.**

1. Install the blade onto the spindle shaft (Fig. 16).

Important The curved part of the blade must be pointing upward toward the inside of the mower to ensure proper cutting.

2. Install the blade stiffener onto the spindle shaft (Fig. 16). The stiffener must match the contour and be flush with the blade.

Note: Do not use the washer when the stiffener is installed.

3. Install the blade bolt (Fig. 16). **Torque the blade bolt to 85–110 ft-lb (115–150 N•m).**

4. Rotate the blades to ensure there is a 1/2 in. \pm 1/16 in. clearance between the blade tips and the baffles (Fig. 5).
5. If contact is made, **do not use the mower**. Check and make sure the baffles are installed properly.

Important Do not use the mower if blades contact the baffles.

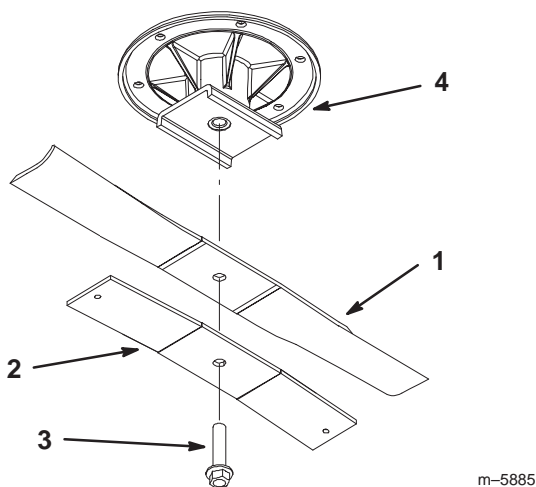


Figure 16

- | | |
|--------------------|---------------|
| 1. Blade | 3. Blade bolt |
| 2. Blade stiffener | 4. Spindle |

Adjusting the Left Blowout Baffle

If your machine has a left-hand blowout baffle, adjust it to the same height as the front tunnel baffle.

1. Loosen the bolts holding the left-hand blowout baffle.
2. Slide the baffle to the same height as the front tunnel baffle (Fig. 17).
3. Tighten the blowout baffle bolts (Fig. 17).

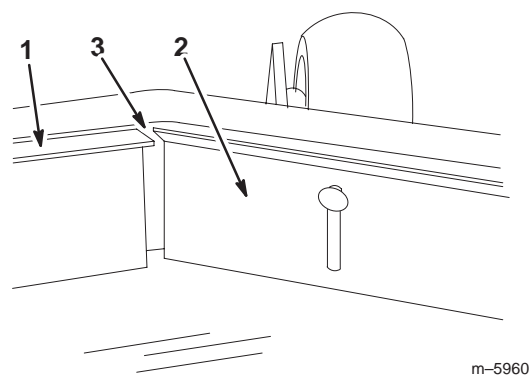


Figure 17

- | | |
|-----------------------------|----------------|
| 1. Front tunnel baffle | 3. Same height |
| 2. Left-hand blowout baffle | |

Installing the Mower

1. Turn the mower over to upright position.
2. Raise the height of cut lever and slide the mower under the machine (Fig. 2).
3. Install the PTO belt.
4. Install the pins (Fig. 2).
5. Install the nuts and bolts holding the pins into the push arms (Fig. 2).
6. Install the four bolts, at the bottom of chains, to the mower (Fig. 2).

Note: The mower will need to be leveled when installed. Refer to the operator's manual for instructions.

Installing the Bagging Tubes

Refer to the bagger operator's manual for installing the bagging tubes.

