

### Installation Instructions

## Safety

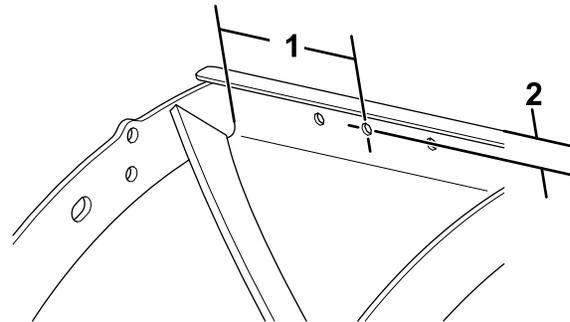
- Always detach the wing extensions before transporting the plow.
- Installing this kit will change the weight of your plow. Ensure that your vehicle does not exceed the front gross-axle weight rating (FGAWR) at any time. You may need to weigh the vehicle and add ballast or limit the payload of the vehicle to compensate.

## Installation

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

### For 7'6" and 8' Trip Edge Straight-Blade Plows

1. Remove the plow if it is mounted to a vehicle; refer to your plow *Owner's Manual*.
2. Remove and retain the plow blade guides.
3. If your plow is equipped with snow deflectors, remove and retain the outermost belting straps, and pull the belting out of the way during installation.
4. On the left side of the plow, drill a hole (7/16 inch) at the location shown in [Figure 1](#).

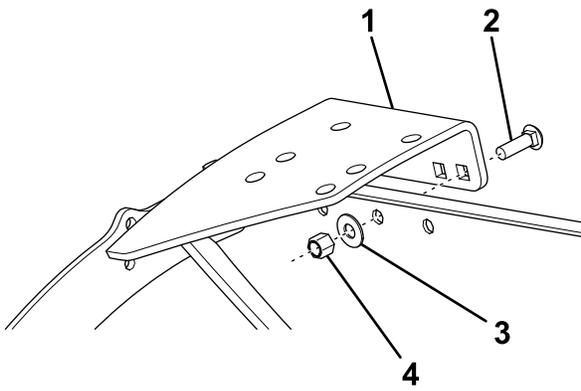


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Figure 1

1. 10.8 cm (4-1/4 inches)
2. 3.6 cm (1-7/16 inches)

5. Loosely attach the spring bracket base-plate to the plow using a carriage bolt (3/8 inch), washer, and locknut ([Figure 2](#)).



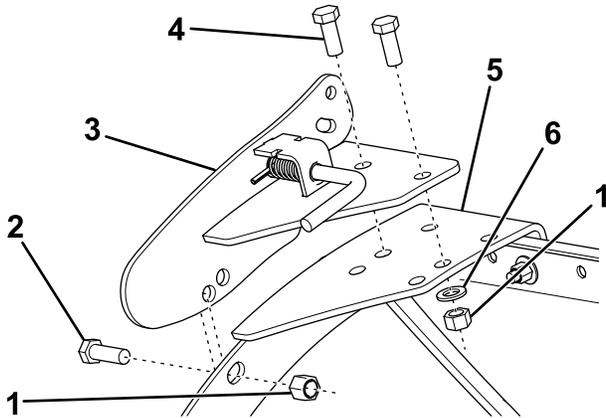
**Figure 2**

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- |                              |                       |
|------------------------------|-----------------------|
| 1. Spring bracket base-plate | 3. Washer (3/8 inch)  |
| 2. Carriage bolt (3/8 inch)  | 4. Locknut (3/8 inch) |

6. Loosely attach the spring bracket to the spring bracket base-plate using 2 bolts (1/2 x 1-1/4 inches), washers, and locknuts (Figure 3).

If you have a plow with serial number BC114675 or newer, use the middle set of holes on the spring bracket base-plate. For all other plows, use the top set of holes.



**Figure 3**

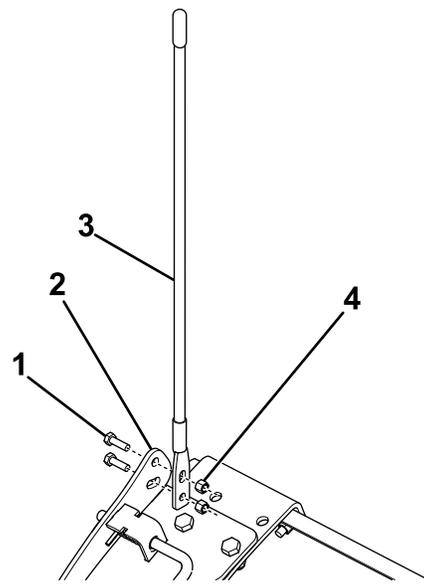
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- |                              |                              |
|------------------------------|------------------------------|
| 1. Locknut (1/2 inch)        | 4. Bolt (1/2 x 1-1/4 inches) |
| 2. Bolt (1/2 x 1-1/2 inches) | 5. Spring bracket base-plate |
| 3. Spring bracket            | 6. Washer (1/2 inch)         |

7. Loosely attach the spring bracket to the side of the plow using a bolt (1/2 x 1-1/2 inches) and locknut (Figure 3).

**Note:** If necessary, use additional washers (3/8 inch) to shim between the spring bracket base-plate and the blade to adjust the position of the base-plate.

8. Attach a previously removed plow blade guide to the spring bracket (Figure 4), and torque the bolts to 19 N·m (14 ft·lb).



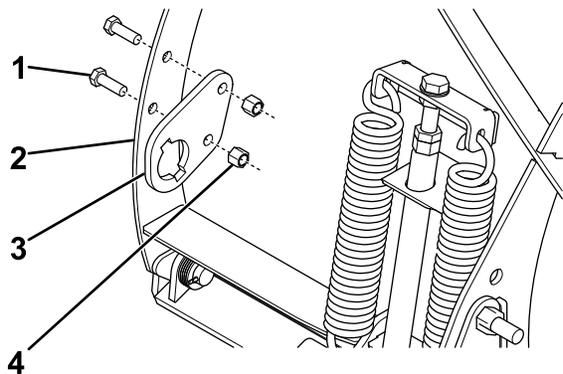
**Figure 4**

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- |                            |                           |
|----------------------------|---------------------------|
| 1. Previously removed bolt | 3. Plow blade guide       |
| 2. Spring bracket          | 4. Previously removed nut |

9. Loosely attach a rib bracket to the outermost plow rib using 2 bolts (1/2 x 1-1/2 inches) and locknuts (Figure 5).

**Note:** Ensure that the rib bracket is mounted to the inner side of the plow rib.

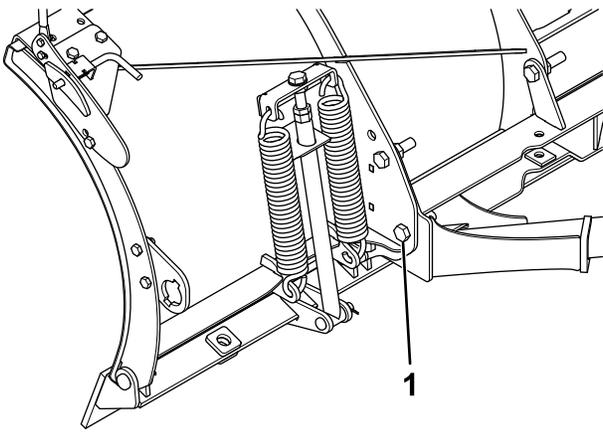


**Figure 5**

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- |                              |                       |
|------------------------------|-----------------------|
| 1. Bolt (1/2 x 1-1/2 inches) | 3. Rib bracket        |
| 2. Plow rib                  | 4. Locknut (1/2 inch) |

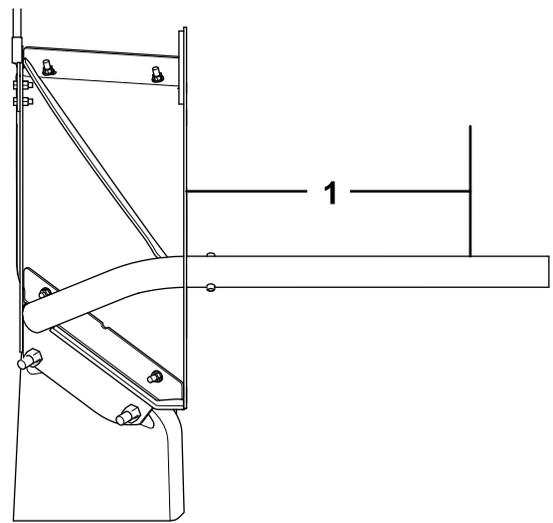
10. Remove the bolt and locknut securing the pushbeam assembly shown in Figure 6. Discard the bolt but retain the locknut.



**Figure 6**

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1. Pushbeam bolt



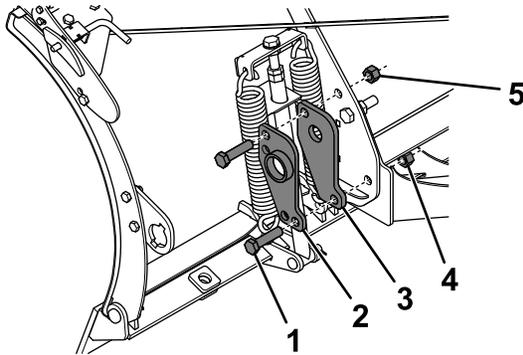
**Figure 8**

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1. Measure

11. Loosely attach a trip edge bracket to the second outermost plow rib using 2 bolts (3/4 inch), the previously removed locknut, and 1 new locknut (Figure 7).

If you have a plow with serial number BC114675 or newer, attach the spacer as well.



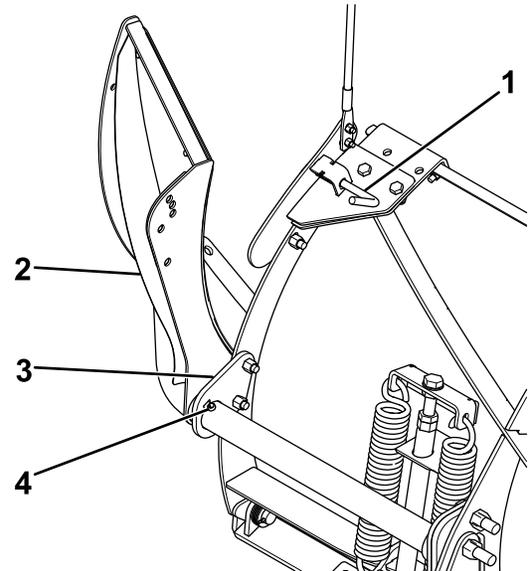
**Figure 7**

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- |  |                               |
|--|-------------------------------|
| 1. Bolt (3/4 inch)                                     | 4. Previously removed locknut |
| 2. Trip edge bracket                                   | 5. New locknut (3/4 inch)     |
| 3. Spacer (serial number BC114675 or newer plows only) |                               |

12. If you have a plow with serial number BC114675 or newer, cut the plow wing tube to the dimensions listed below (Figure 8).

- 7 ft 6 inch plow—50.48 cm (19-7/8 inches)
- 8 ft plows—58.10 cm (22-7/8 inches)

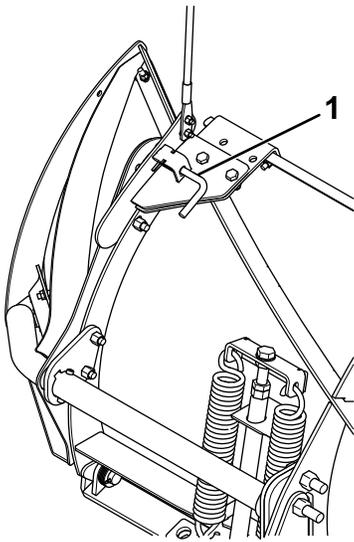


**Figure 9**

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- |               |                |
|---------------|----------------|
| 1. Spring pin | 3. Rib bracket |
| 2. Plow wing  | 4. Attach pin  |

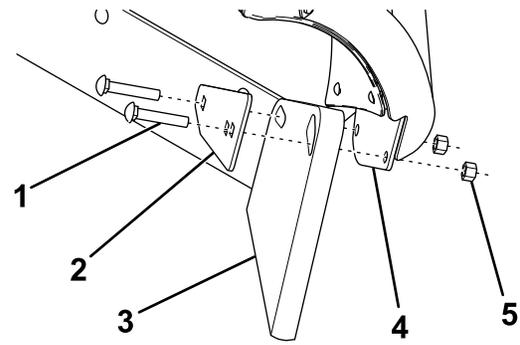
14. Slide the plow wing tube through the rib brackets until the attach pin passes through the outer bracket (Figure 9).
15. Rotate the plow wing forward and lock it in place with the spring pin (Figure 10).



**Figure 10**

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1. Spring pin

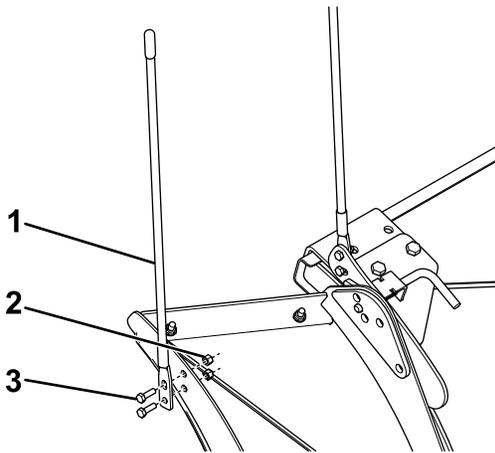


**Figure 12**

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1. Carriage bolt (5/8 inch)
2. Mounting plate
3. Cutting edge
4. Plow wing
5. Nut (5/8 inch)

16. Attach a plow blade guide to the plow wing using 2 bolts (5/16 inch) and locknuts (Figure 11), and torque the bolts to 19 N·m (14 ft-lb).



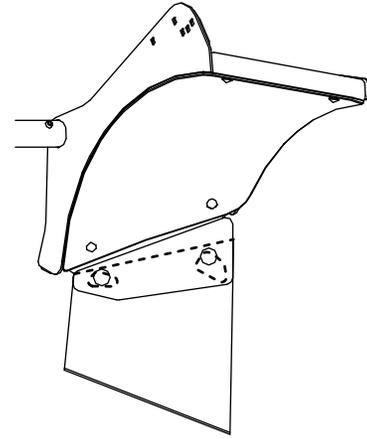
**Figure 11**

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1. Plow guide
2. Locknut (5/16 inch)
3. Bolt (5/16 inch)

17. Repeat steps 4 through 16 on the right side of the plow.
18. Loosely attach the plow wing cutting edge to the plow wing using 2 carriage bolts (5/8 inch), a mounting plate, and 2 nuts (Figure 12).

19. Using Figure 13 as a guide, adjust the cutting edge so that it is aligned with the plow cutting edge and flush to the ground.



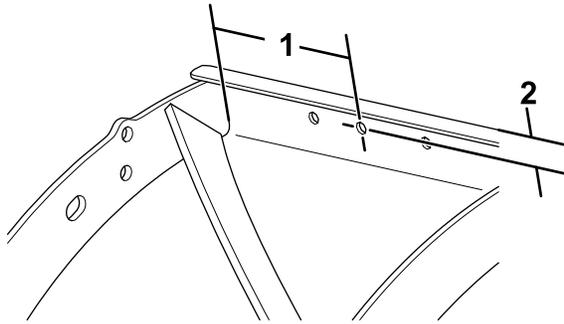
**Figure 13**

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20. Torque the fasteners to the following specifications:
  - 3/4-inch bolts to 272 N·m (201 ft-lb)
  - 5/8-inch carriage bolts to 153 N·m (113 ft-lb)
  - 1/2-inch bolts to 76 N·m (56 ft-lb)
  - 3/8-inch carriage bolts to 31 N·m (23 ft-lb)
21. If your plow is equipped with snow deflectors, pull the belting back into place and secure it over the spring bracket base-plates with the previously removed belt straps and hardware.
22. Check the installation as follows:
  - Remove and attach the plow wings several times, making any necessary adjustments.
  - Attach the plow to the truck and ensure it sits level with all cutting edges touching the ground.

# For All Other Plows

1. Remove the plow if it is mounted to a vehicle; refer to your plow *Owner's Manual*.
2. Remove and retain the plow blade guides.
3. If your plow is equipped with snow deflectors, remove and retain the outermost belting straps, and pull the belting out of the way during installation.
4. On the left side of the plow, drill a hole (7/16 inch) at the location shown in [Figure 14](#).

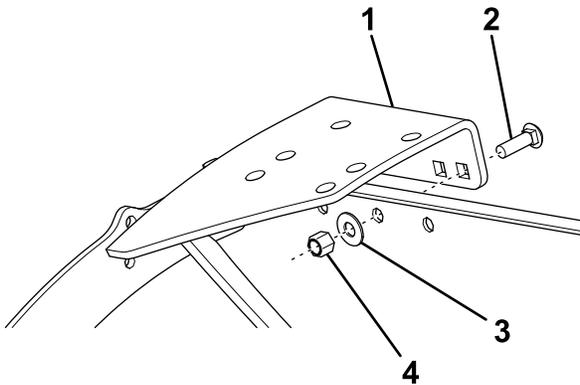


**Figure 14**

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1. 10.8 cm (4-1/4 inches)
2. 3.6 cm (1-7/16 inches)

5. Loosely attach the spring bracket base-plate to the plow using a carriage bolt (3/8 inch), washer, and locknut ([Figure 15](#)).



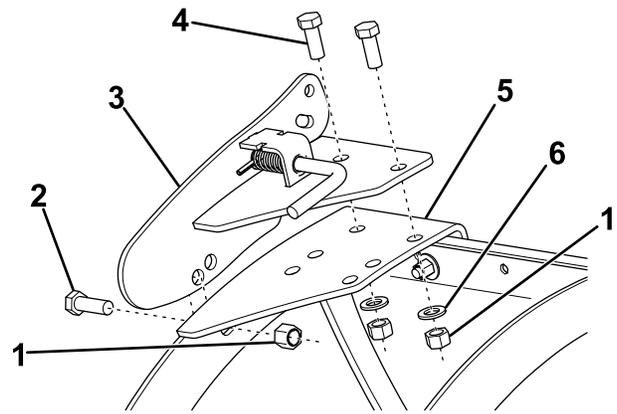
**Figure 15**

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1. Spring bracket base-plate
2. Carriage bolt (3/8 inch)
3. Washer (3/8 inch)
4. Locknut (3/8 inch)

6. Loosely attach the spring bracket to the spring bracket base-plate using 2 bolts (1/2 x 1-1/4 inches), washers, and locknuts ([Figure 16](#)).

If you have a Super Duty XT straight-blade plow, use the bottom set of holes on the spring bracket base-plate. If you have a plow with serial number BC114675 or newer, use the middle set of holes. For all other plows, use the top set of holes.



**Figure 16**

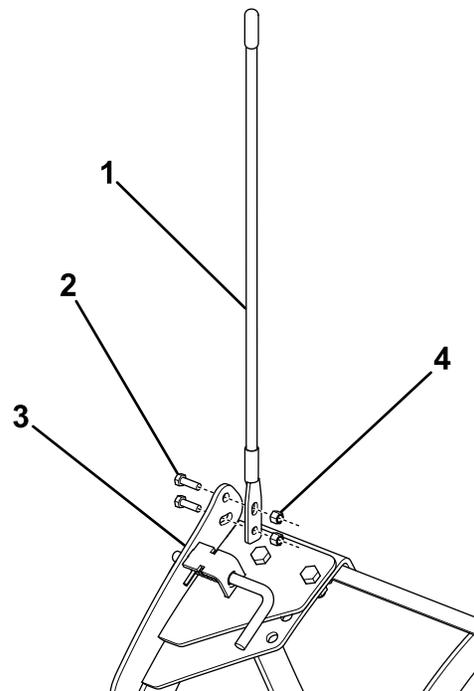
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1. Locknut (1/2 inch)
2. Bolt (1/2 x 1-1/2 inches)
3. Spring bracket
4. Bolt (1/2 x 1-1/4 inches)
5. Spring bracket base-plate
6. Washer (1/2 inch)

7. Loosely attach the spring bracket to the side of the plow using a bolt (1/2 x 1-1/2 inches) and locknut ([Figure 16](#)).

**Note:** If necessary, use additional washers (3/8 inch) to shim between the spring bracket base-plate and the blade to adjust the position of the base-plate.

8. Attach a previously removed plow blade guide to the spring bracket ([Figure 17](#)), and torque the bolts to 19 N·m (14 ft-lb).



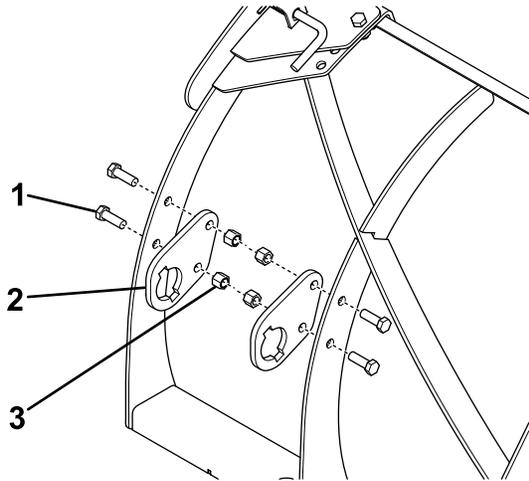
**Figure 17**

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1. Plow blade guide
2. Previously removed bolt
3. Spring bracket
4. Previously removed nut

- Loosely attach the rib brackets to the plow using 4 bolts (1/2 x 1-1/2 inches) and locknuts (Figure 18).

**Note:** Ensure that the rib brackets are mounted to the correct side of the plow ribs.

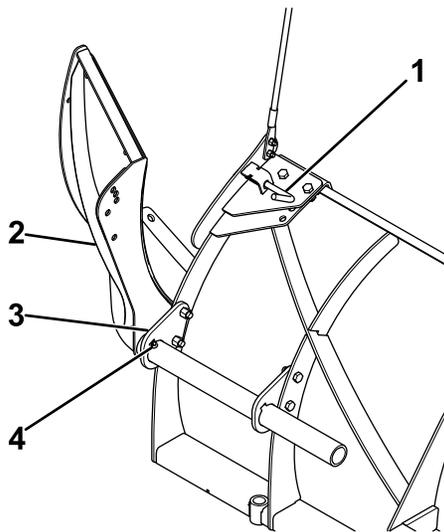


**Figure 18**

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- Bolt (1/2 x 1-1/2 inches)
- Rib bracket
- Locknut (1/2 inch)

- Pull back on the spring pin and rotate it into the lock position (Figure 19).



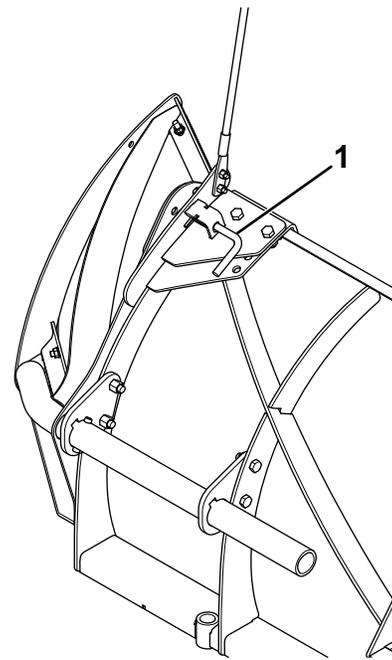
**Figure 19**

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- Spring pin
- Plow wing
- Rib bracket
- Attach pin

- Slide the plow wing tube through the rib brackets until the attach pin passes through the outer bracket (Figure 19).

- Rotate the plow wing forward and lock it in place with the spring pin (Figure 20).

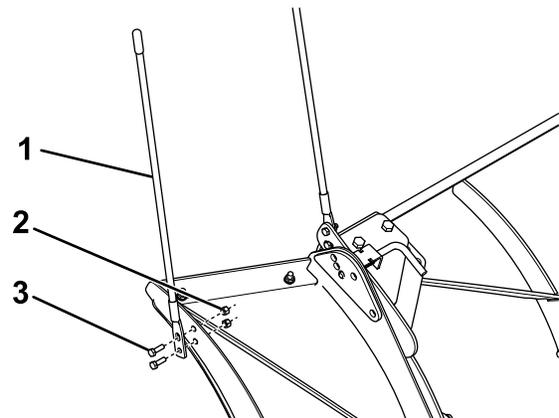


**Figure 20**

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- Spring pin

- Attach a plow blade guide to the plow wing using 2 bolts (5/16 inch) and locknuts (Figure 21), and torque the bolts to 19 N·m (14 ft-lb).



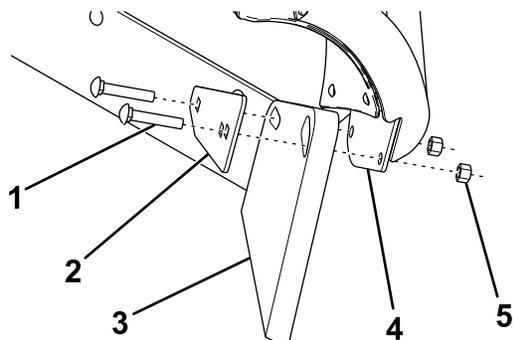
**Figure 21**

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- Plow blade guide
- Locknut (5/16 inch)
- Bolt (5/16 inch)

- Repeat steps 4 through 13 on the right side of the plow.

- Loosely attach the plow wing cutting edge to the plow wing using 2 carriage bolts (5/8 inch), a mounting plate, and 2 nuts (Figure 22).

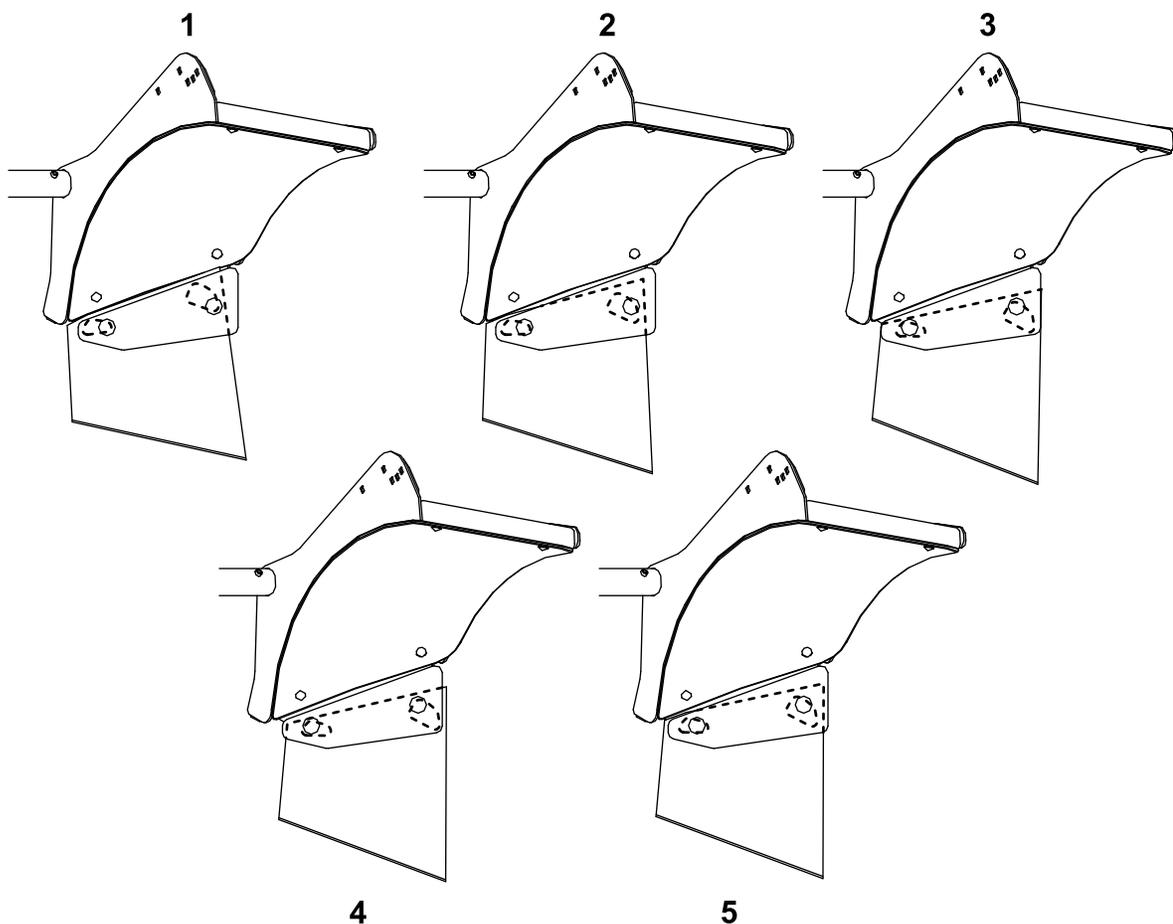


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**Figure 22**

- |                             |                   |
|-----------------------------|-------------------|
| 1. Carriage bolt (5/8 inch) | 4. Plow wing      |
| 2. Mounting plate           | 5. Nut (5/8 inch) |
| 3. Cutting edge             |                   |

- Using Figure 23 as a guide, adjust the cutting edge so that it is aligned with the plow cutting edge and flush to the ground.
- Torque the fasteners to the following specifications:
  - 1/2-inch bolts to 76 N·m (56 ft-lb)
  - 3/8-inch carriage bolts to 31 N·m (23 ft-lb)
  - 5/8-inch carriage bolts to 153 N·m (113 ft-lb)
- If your plow is equipped with snow deflectors, pull the belting back into place and secure it over the spring bracket base-plates with the previously removed belt straps and hardware.



**Figure 23**

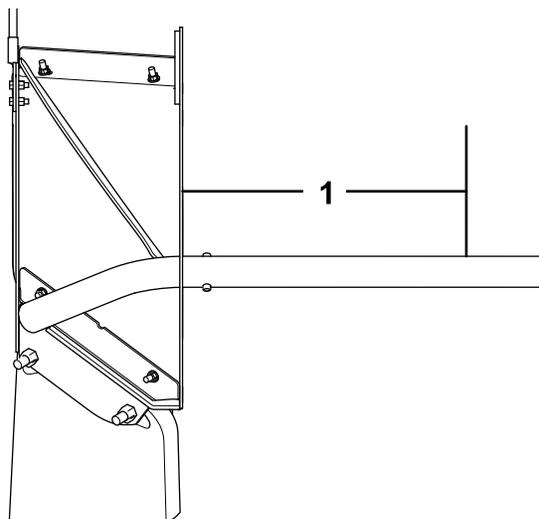
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- |                                |  |
|--------------------------------|--|
| 1. Non-Xt straight-blade plows | 4. V-blade plows with a formed cutting edge    |
| 2. Xt straight-blade plows     | 5. V-blade plows without a formed cutting edge |
| 3. Trip edge plows             |  |

19. Check the installation as follows:
  - Remove and attach the plow wings several times, making any necessary adjustments.
  - Attach the plow to the truck and ensure it sits level with all cutting edges touching the ground.
20. If desired, cut the plow wing tube to the dimensions listed for your plow in the following table, and insert the tube plug in the end.

**Note:** The tube plug helps prevent corrosion.

Plow	Tube Length (Figure 24)
7 ft 6 inch steel V-blade plow	38.73 cm (15-3/4 inches)
7 ft 6 inch standard duty straight-blade plow	36.83 cm (14-1/2 inches)
7 ft 6 inch super duty straight-blade plow	30.95 cm (12-3/16 inches)
2013 and older 7 ft 6 inch super duty trip edge	51.43 cm (20-1/4 inches)
7 ft 6 inch poly straight-blade plow	38.41 cm (15-1/8 inches)
8 ft steel straight-blade plow	
8 ft XT straight-blade plow	
8 ft poly straight-blade plow	35.24 cm (13-7/8 inches)
8 ft 2 inch steel V-blade plow	50.16 cm (19-3/4 inches)
8 ft 2 inch poly V-blade plow	56.67 cm (22-5/16 inches)
8 ft 6 inch super duty straight-blade plow	46.19 cm (18-3/16 inches)
8 ft 6 inch XT straight-blade plow	
9 ft 2 inch poly V-blade plow	37.46 cm (14-3/4 inches)
9 ft 2 inch steel V-blade plow	33.97 cm (13-3/8 inches)
9 ft super duty trip edge plow	48.26 cm (19 inches)
9 ft super duty straight-blade plow	53.81 cm (21-3/16 inches)
9 ft XT straight-blade plow	



**Figure 24**

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1. Measure