



Toro® Workman® Chassis Mount Kit

ProPass 200 Top Dresser

Model No. 44707

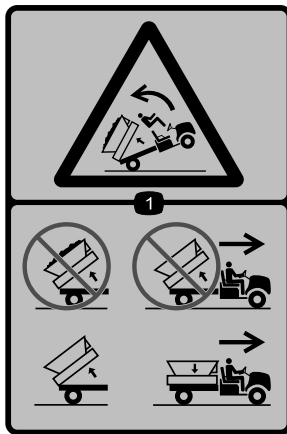
Installation Instructions

Safety

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.



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119-6840

1. Tipping hazard, loss of control—do not raise the hopper when filled; do not drive the vehicle while hopper is raised. Raise the hopper when empty only; always lower the hopper completely before driving the vehicle.



Installation

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	No parts required	–	Remove the cargo bed.
3	Rear cross member Brace tube Flange-head capscrew (3/8 x 2-1/2 inches) Mount spacer Flange locknut (3/8 inch) Center cross member Flange-head capscrew (3/8 x 2 inches)	1 2 4 2 8 4	Assemble the rear and center cross members.
4	Lynch pin Washer (1-5/8 x 3/4 inches) Hitch pin	2 6 2	Assemble the cross members to the machine.
5	Capscrew (5/16 x 3 inches) Flange locknut (5/16 inch) Washer (5/16 inch) Capscrew (5/16 x 1-1/4 inches)	6 12 12 6	Install the top dresser to the utility vehicle.
6	Pressure hydraulic hose Return hydraulic hose Capscrew (1/4 x 2-3/4 inches) Washer (1/4 inch) Clamp plate Tube clamp half Flange locknut (1/4 inch) Cable tie	1 1 3 3 3 6 3 2	Install the hydraulic hoses.
7	No parts required	–	Install the top dresser wire harness and optional equipment.
8	Left side shield Right side shield Flange-head capscrew (1/4 x 3/4 inch) Flange locknut (1/4 inch)	1 1 10 6	Install the side shields.
9	No parts required	–	Connect the hydraulic hoses to the vehicle.
10	No parts required	–	Complete the chassis mount kit installation.

1

Preparing the Machine

No Parts Required

Procedure

1. Park the machine on a level surface.
2. Engage the parking brake.
3. Shut off the engine and remove the key.

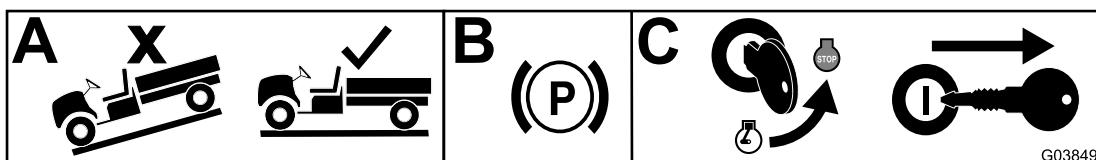


Figure 1

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2

Removing the Cargo Bed

No Parts Required

Procedure

Remove the bed from the Toro Workman utility vehicle; refer to the Workman *Operator's Manual*.

Note: Retain the cylinder pins for installing this kit.

3

Assembling the Rear and Center Cross Members

Parts needed for this procedure:

1	Rear cross member
2	Brace tube
4	Flange-head capscrew (3/8 x 2-1/2 inches)
2	Mount spacer
8	Flange locknut (3/8 inch)
	Center cross member
4	Flange-head capscrew (3/8 x 2 inches)

Procedure

1. Loosely assemble a tube brace to the hinge bracket of the rear cross member with 2 spacers, 2 flange-head capscrews (3/8 x 2-1/2 inches), and 2 flange locknuts (3/8 inch) as shown in [Figure 2](#).

4

Assembling the Cross Members to the Machine

Parts needed for this procedure:

2	Lynch pin
6	Washer (1-5/8 x 3/4 inches)
2	Hitch pin

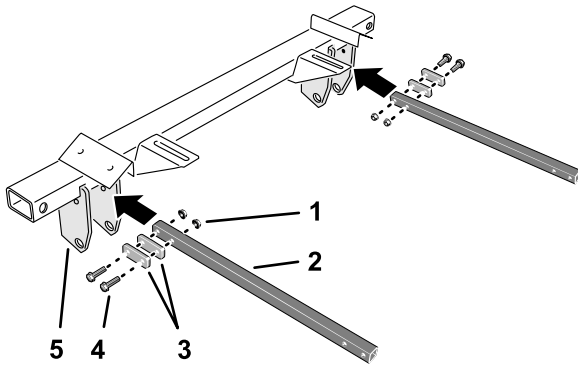


Figure 2

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1. Flange locknut (3/8 inch)
2. Tube brace
3. Spacers
4. Flange-head capscrew (3/8 x 2-1/2 inches)
5. Hinge bracket (rear cross member)

2. Loosely assemble a tube brace to the hinge bracket at the other end of the rear cross member (Figure 2) with 2 spacers, 2 flange-head capscrews (3/8 x 2-1/2 inches), and 2 flange locknuts (3/8 inch).
3. Loosely assemble the other end of the 2 brace tubes to the inner cylinder plates of the center cross member (Figure 3) with 4 flange-head capscrews (3/8 x 2 inches), and 4 flange locknuts (3/8 inch).

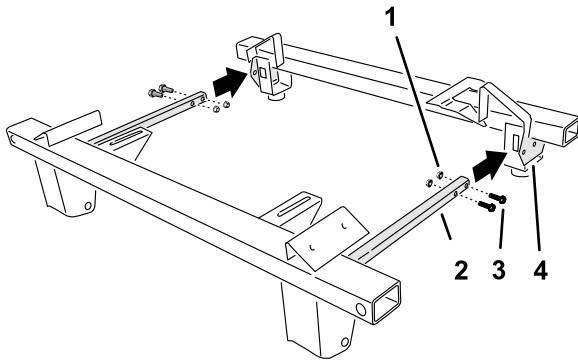


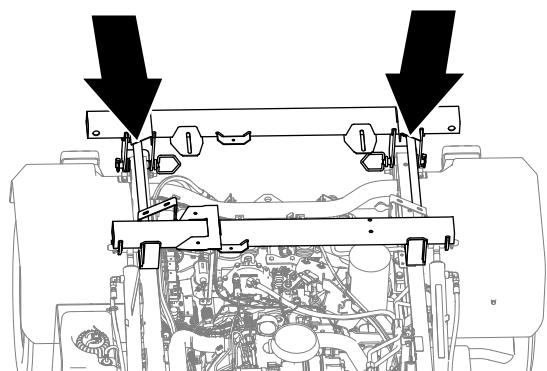
Figure 3

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1. Flange locknut (3/8 inch)
2. Brace tube
3. Flange-head capscrew (3/8 x 2 inches)
4. Cylinder plate (center cross member)

Assembling the Center and Rear Cross Members

1. Lift the center and rear cross member assemble onto the frame rails of the machine.
2. Align the holes in the pivot brackets of the rear cross member with the bed-pivot tubes in the frame rail of the machine and partially insert the 2 lynch pins through the brackets and tubes (Figure 4).



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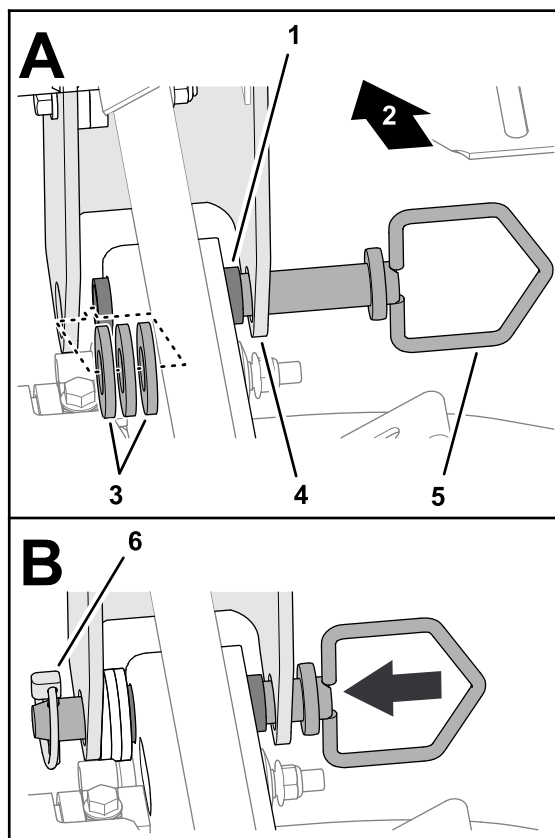


Figure 4

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- | | |
|---|------------------|
| 1. Bed-pivot tubes (machine frame rail) | 4. Pivot bracket |
| 2. Back of the machine | 5. Lynch pin |
| 3. Washers (1-5/8 x 3/4 inches) | 6. Hitch pin |

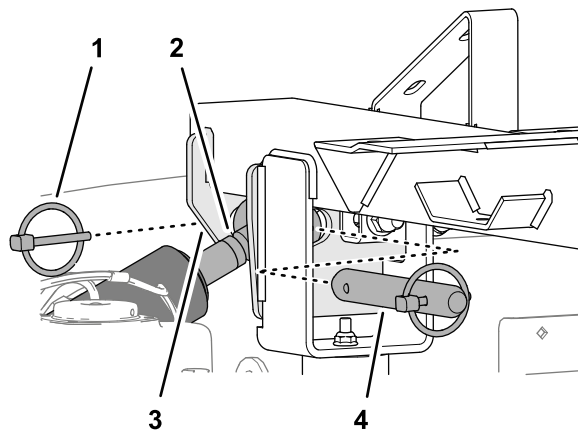
- Insert washers (1-5/8 x 3/4 inches) as needed, between the pivot brackets and the bed-pivot tubes to center the rear cross member to the frame rails and fill the gaps (Figure 4).
- Move the lynch pins outward and secure them with the 2 hitch pin (Figure 4).

Important: Ensure that there is clearance between the center cross member and the rear fenders of the machine and the oil filter assembly.

- Assemble the rods of the left and right lift cylinders to the cylinder plates of the center cross member (Figure 5) with the clevis pins and lynch pins that you retained when removing the cargo bed.

Note: When installing the clevis pins, ensure that the 4 lynch pins are fully inserted and latched.

Note: You may need to move the hydraulic lift cylinder forward or backward until the clevis pins line up with the cylinder plate holes.

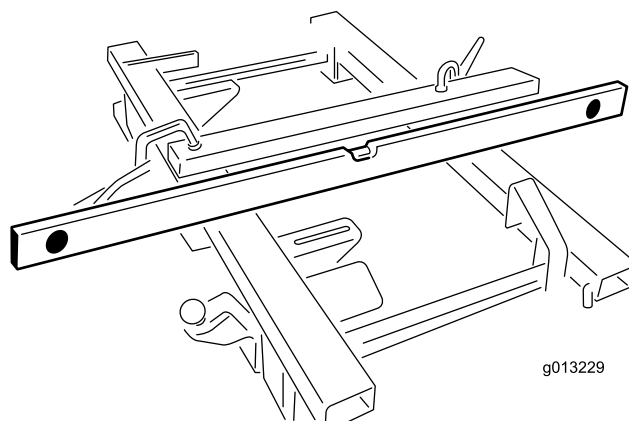


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Figure 5

- | | |
|------------------------|---|
| 1. Lynch pin | 3. Cylinder plate (center cross member) |
| 2. Rod (lift cylinder) | 4. Clevis pin |

- Ensure that the center cross member is square to the rear cross member.
- Ensure that the tops of the center cross member and the rear cross member are aligned across both surfaces (Figure 6).



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Figure 6

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- Torque the 8 flange-head capscrews and 8 flange locknuts that secure the brace tubes to the center and rear cross members to 37 to 45 N·m (27 to 33 ft-lb).

9. Check that the center cross member and the rear cross member are square and aligned.

Aligning the Front Cross Member to the Machine

1. Align the 2 L-bracket of the front cross member toward the front of the machine (Figure 7).

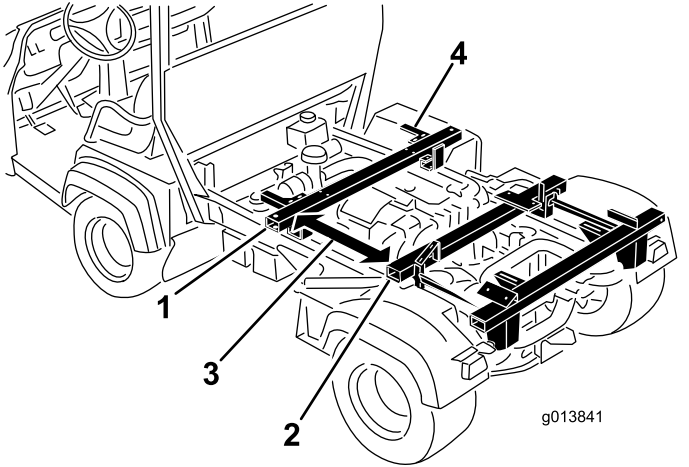


Figure 7

- | | |
|------------------------|----------------------|
| 1. Front cross member | 3. 76 CM (30 inches) |
| 2. Center cross member | 4. L-bracket |

2. Position the front cross member onto the vehicle frame so that the cross member is 76 CM (30 inches) in front of the center cross member (Figure 7).

5

Installing the Top Dresser to the Utility Vehicle

Parts needed for this procedure:

6	Capscrew (5/16 x 3 inches)
12	Flange locknut (5/16 inch)
12	Washer (5/16 inch)
6	Capscrew (5/16 x 1-1/4 inches)

Assembling the Top Dresser to the Center Cross Members

⚠ WARNING

Do not lift the top dresser bed and hopper while they are assembled to the Workman chassis. The lifting bracket cannot lift the entire machine.

Lifting equipment capacity: 413 kg (910 lb)

1. Attach a lifting equipment to the lifting bracket bolted inside the hopper of the top dresser (Figure 8).

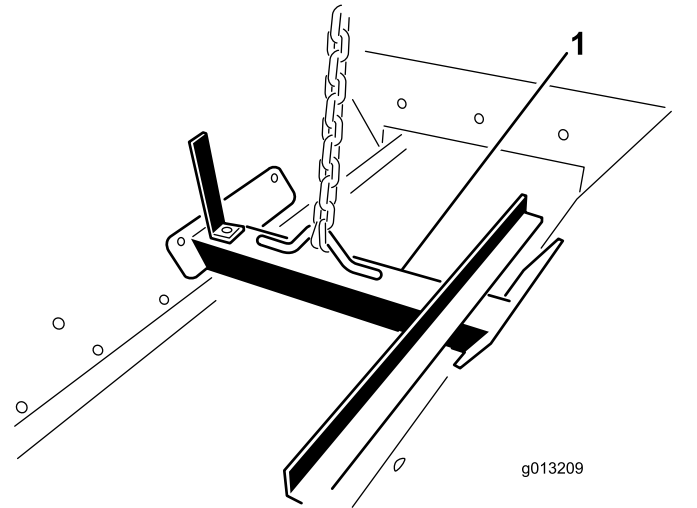
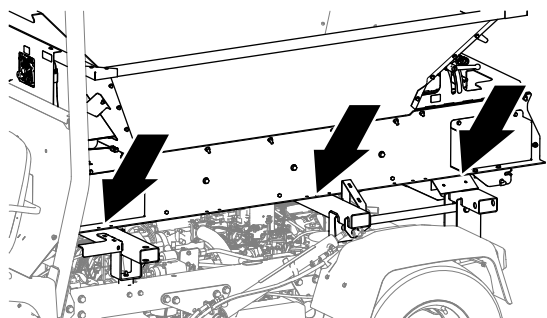
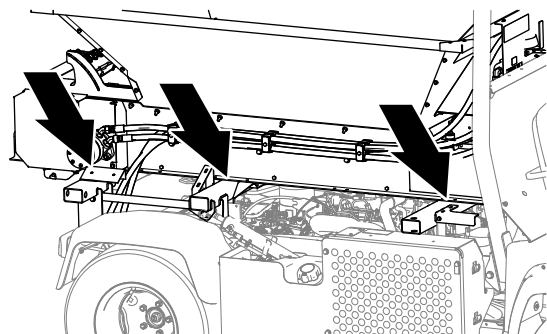


Figure 8

1. Lifting bracket
2. Lift the top dresser high enough to back the vehicle underneath.



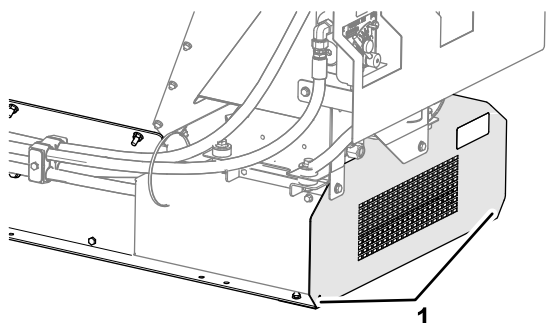
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Figure 9

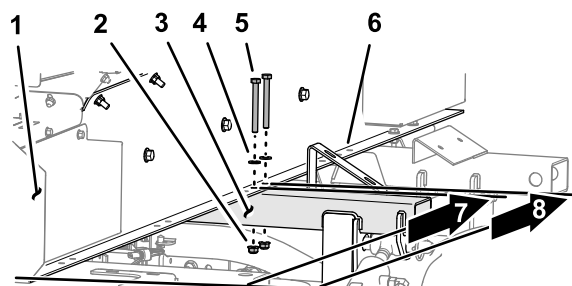
3. Carefully lower the top dresser onto the vehicle and align the holes in the left rail of the top dresser that measure 107.6 cm (42-3/8 inches) and 112.7 cm (44-3/8 inches) from the rinse guard with the holes in the center cross member (Figure 10 and Figure 11).



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Figure 10

1. Rinse guard measuring points



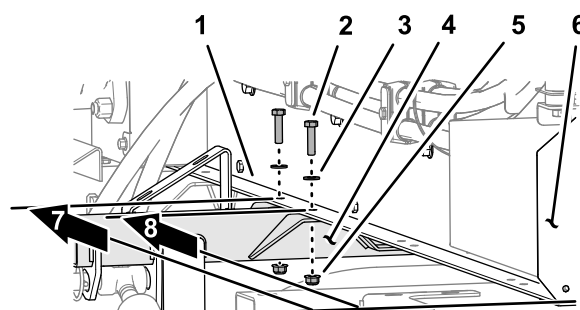
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Figure 11

Left Side

- | | |
|-------------------------------|---|
| 1. Rinse guard | 5. Capscrew (5/16 x 3 inches) |
| 2. Flange locknut (5/16 inch) | 6. Left rail (top dresser) |
| 3. Center cross member | 7. 107.6 cm (42-3/8 inches) measurement |
| 4. Washer (5/16 inch) | 8. 112.7 cm (44-3/8 inches) measurement |

4. Loosely assemble the rail to the left side of the center cross member (Figure 11) with 2 capscrews (5/16 x 3 inches), 2 washers (5/16 inch), and flange locknut (5/16 inch).
5. At the right top-dresser rail, measure 103.7 cm (40-13/16 inches) and 116.7 cm (45-15/16 inches) from the rinse guard to the holes in the rail (Figure 12).



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Figure 12

Right Side

- | | |
|-----------------------------------|---|
| 1. Right rail (top dresser) | 5. Flange locknut (5/16 inch) |
| 2. Capscrew (5/16 x 1-1/4 inches) | 6. Rinse guard |
| 3. Washer (5/16 inch) | 7. 116.7 cm (45-15/16 inches) measurement |
| 4. Center cross member | 8. 103.7 cm (40-13/16 inches) measurement |

6. Loosely assemble the rail to the center cross member mount plate (Figure 12) with capscrews (5/16 x 1-1/4 inches), 2 washers (5/16 inch), and flange locknut (5/16 inch).

Assembling the Top Dresser to the Rear Cross Member

- 1. Measure 146.5 cm (57-11/16 inches) and 151.6 cm (59-11/16 inches) from the rinse guard to the holes in the rail (Figure 13).

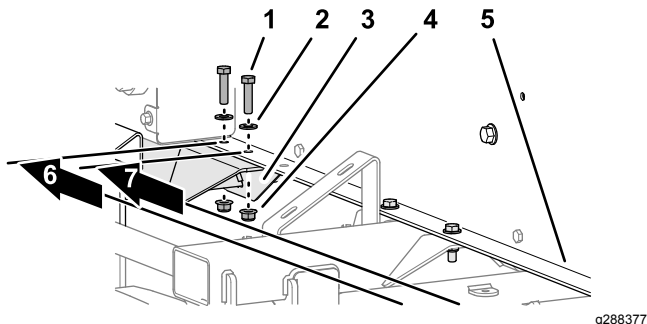


Figure 13

Right side shown (left side similar)

- 1. Capscrew (5/16 x 1-1/4 inches)
 - 2. Washer (5/16 inch)
 - 3. Slotted bracket (rear cross member)
 - 4. Flange locknut (5/16 inch)
 - 5. Right rail (top dresser)
 - 6. 151.6 cm (59-11/16 inches) measurement
 - 7. 146.5 cm (57-11/16 inches) measurement
- 2. Assemble rail to the slotted bracket of the rear cross member (Figure 10 and Figure 13) with 2 capscrews (5/16 x 1-1/4 inches), 2 washers (5/16 inch), and flange locknut (5/16 inch).
 - 3. Repeat steps 1 and 2 for the rear cross member at the other side of the machine.
 - 4. Torque the 8 capscrews and 8 flange locknuts at the center and rear cross members to 1978 to 2542 N·m (175 to 225 in-lb).

Assembling the Top Dresser to the Front Cross Member

- 1. Use the cargo bed-lift cylinders of the vehicle to raise the top dresser 51 mm (2 inches).

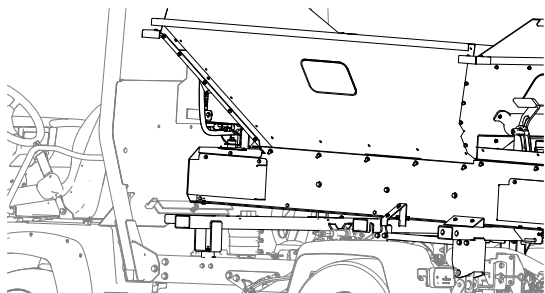


Figure 14

- 2. Lift the front cross member to the rail of the top dresser and assemble the cross member

to the rail (Figure 15) with 2 capscrews (5/16 x 3 inches), 2 washers, and (5/16 inch), and 2 flange locknuts (5/16 inch).

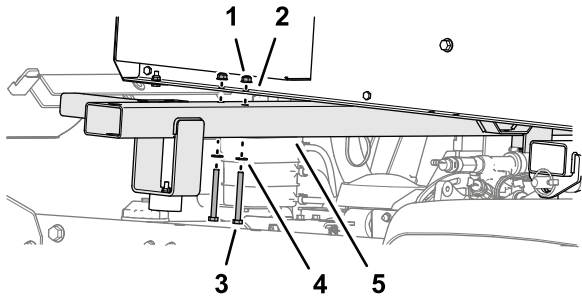


Figure 15

- 1. Flange locknut (5/16 inch)
 - 2. Left rail (top dresser)
 - 3. Capscrew (5/16 x 3 inches)
 - 4. Washer (5/16 inch)
 - 5. Front cross member
- 3. Repeat step 2 for the front cross member at the other side of the machine.
 - 4. Torque the capscrews and locknuts for the front cross member to 1978 to 2542 N·m (175 to 225 in-lb).

6

Installing the Hydraulic Hoses

Parts needed for this procedure:

1	Pressure hydraulic hose
1	Return hydraulic hose
3	Capscrew (1/4 x 2-3/4 inches)
3	Washer (1/4 inch)
3	Clamp plate
6	Tube clamp half
3	Flange locknut (1/4 inch)
2	Cable tie

Raising the Top Dresser

- 1. Raise the top dresser until the lift cylinders are fully extended. (Figure 16).

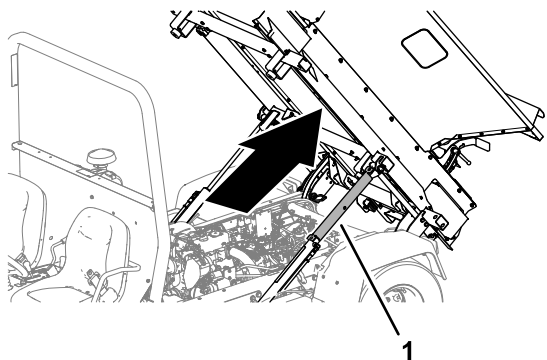


Figure 16

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1. Bed support

2. Install the bed support (Figure 16) onto the cylinder rod; refer to the *Operator's Manual* for your utility vehicle.

Removing the Top Dresser Hydraulic Guard

Model 44701

1. Remove the 2 capscrews and 2 washers that secure the hydraulic guard to the valve mount of the top dresser (Figure 17).

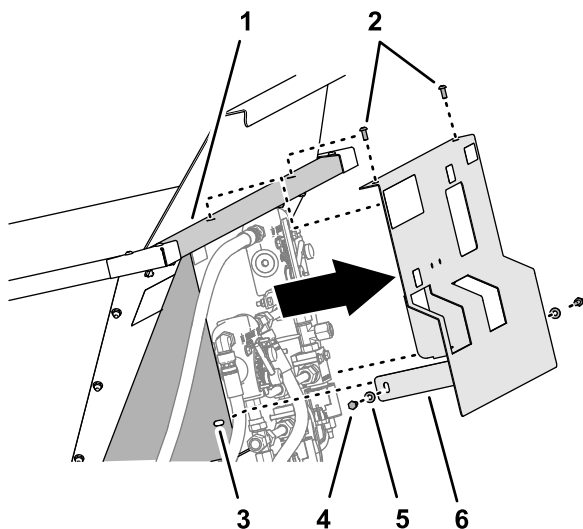


Figure 17

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- | | |
|------------------------|--------------------|
| 1. Hopper (front wall) | 4. Capscrew |
| 2. Button-head screws | 5. Washer |
| 3. Valve mount | 6. Hydraulic guard |

2. Remove the 2 button-head screws that secure the hydraulic guard to the front wall of the hopper, and remove the guard (Figure 17).

Connecting the Hoses to the Control Valve Fittings

Model 44701

1. At the valve mount, remove the caps from the T-fitting and the cross union fitting as shown in Figure 18.

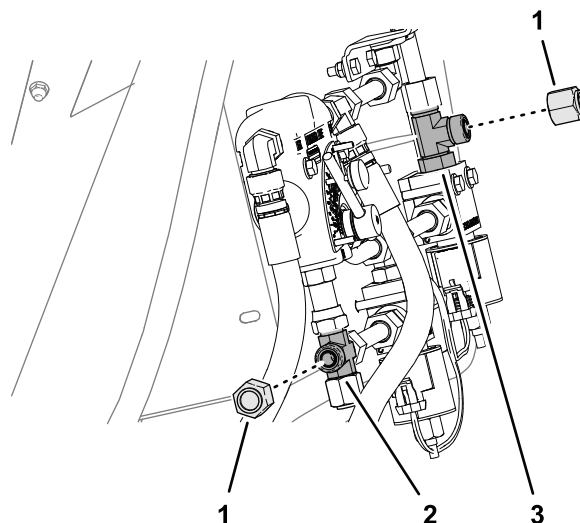


Figure 18

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- | | |
|------------------------|--------------|
| 1. Cap | 3. T-fitting |
| 2. Cross union fitting | |

2. Loosely assemble the 90° fitting of the return hydraulic hose (the hose with the arrow decal affixed) onto the T-fitting (Figure 19).

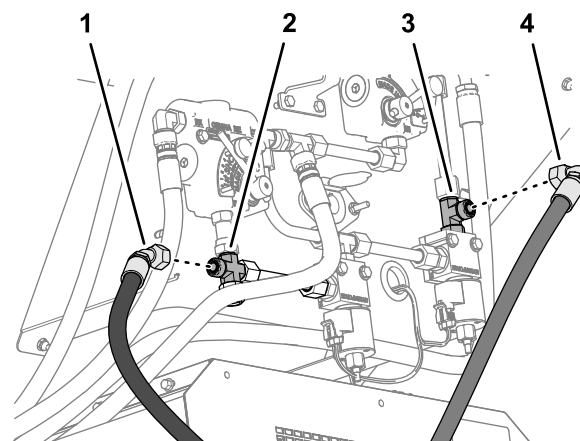


Figure 19

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- | | |
|--|--|
| 1. 45° fitting (pressure hydraulic hose) | 3. T-fitting |
| 2. Cross union fitting | 4. 90° fitting (return hydraulic hose) |

3. Loosely assemble the 45° fitting of the pressure hydraulic hose onto the cross union fitting (Figure 19).

4. Route the hoses toward the forward right corner of the top dresser.

Connecting the Hoses to the Hydraulic Manifold

Model 44751

1. Remove the caps from the from the union fittings at port-T and port-P of the hydraulic manifold (Figure 20).

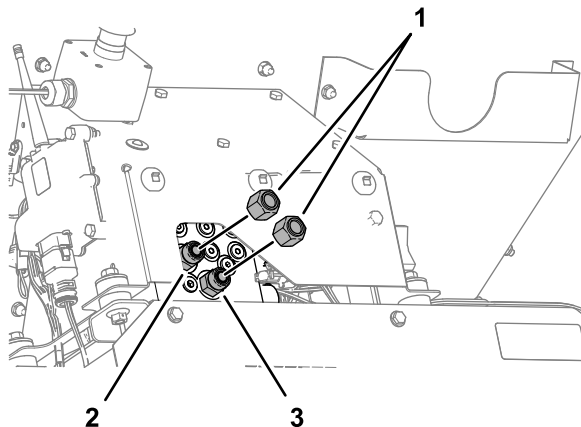


Figure 20

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1. Caps
2. Union fitting (hydraulic manifold—port-T)
3. Union fitting (hydraulic manifold—port-P)

2. Loosely assemble the 45° fitting of the pressure hydraulic hose onto the union fitting in port-P (Figure 21).

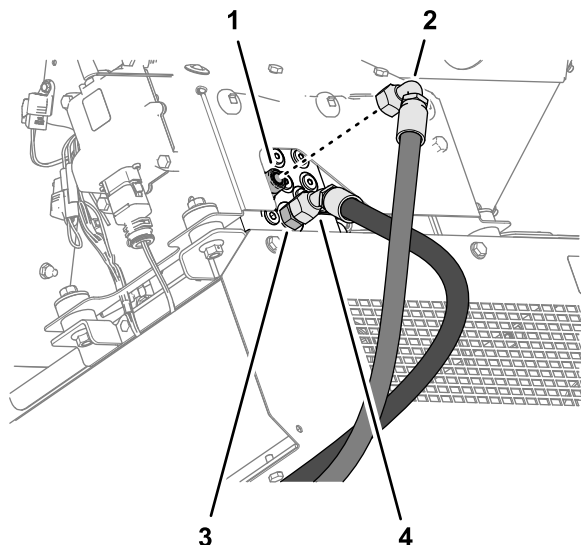


Figure 21

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1. Union fitting (hydraulic manifold—port-T)
2. 90° fitting (return hydraulic hose)
3. Union fitting (hydraulic manifold—port-P)
4. 45° fitting (pressure hydraulic hose)

3. Loosely assemble the 90° fitting of the return hydraulic hose (the hose with the arrow decal affixed) onto port-T of the hydraulic manifold (Figure 21).

Routing the Hydraulic Hoses

1. Route the hydraulic pressure and return hoses along the right the top dresser frame rail as shown in Figure 22.

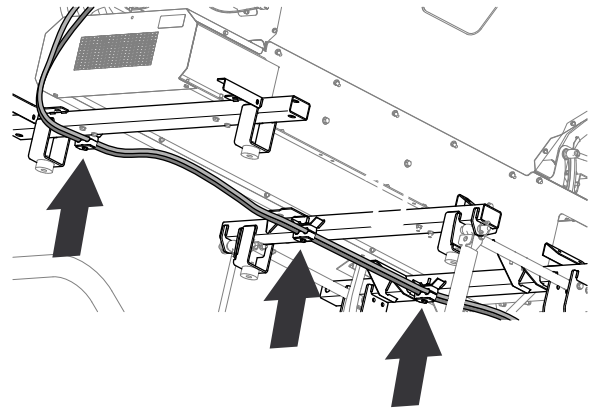


Figure 22

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2. Loosely assemble the hoses to the 3 hose-mount brackets located at the front, center and rear cross members (Figure 22 and Figure 23) with a 3 capscrews (1/4 x 2-3/4 inches), 3 washers (1/4 inch), 3 clamp plates, 6 tube-clamp halves, and 3 flange locknuts (1/4 inch).

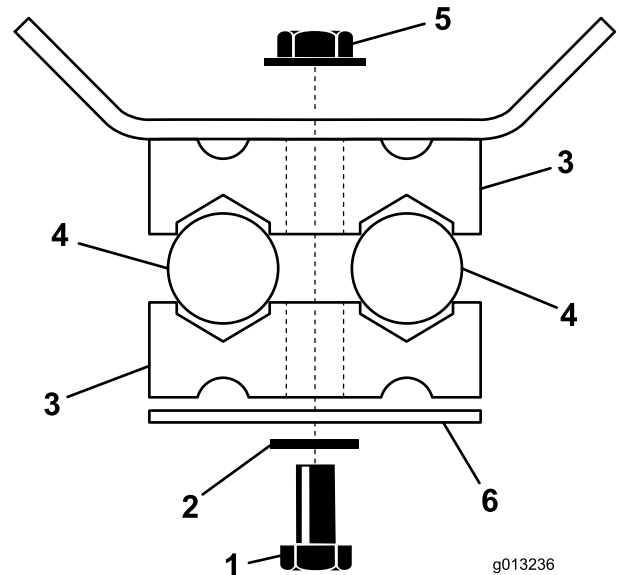


Figure 23

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1. Capscrew (1/4 x 2-3/4 inches)
2. Washers (1/4 inch)
3. Tube-clamp half
4. Hydraulic hose
5. Flange locknuts (1/4 inch)
6. Clamp plate

- Between the front and center cross members, route the hoses against the right frame rail ([Figure 24](#)).

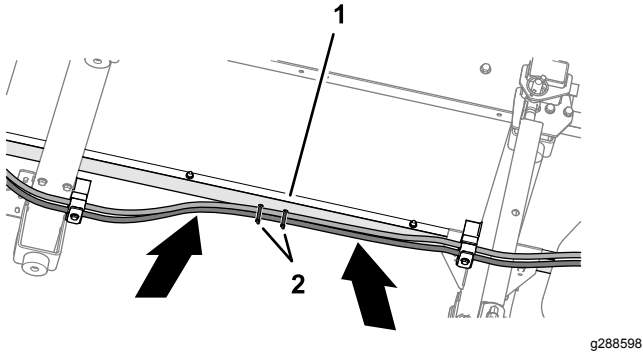


Figure 24

- Right frame rail (top dresser)
- Cable ties

- Secure the hoses to the holes in the frame rail with 2 cable ties ([Figure 24](#)). When attaching the hose, ensure that there is proper tension on the hoses.

Note: Remove any slack in the hoses so that they bend upward to clear the engine of the Workman.

- Tighten the 3 capscrews and 3 locknuts that secure the tube-clamp halves ([Figure 23](#)).
- Tighten the 90° fitting of the return hydraulic hose and the 45° fitting of the pressure hydraulic hose; refer to [Figure 19](#) or [Figure 21](#).

Installing the Top Dresser Hydraulic Guard

Model 44701

- Align the holes in the hydraulic guard with the holes in the valve mount and the front wall of the hopper ([Figure 25](#)).

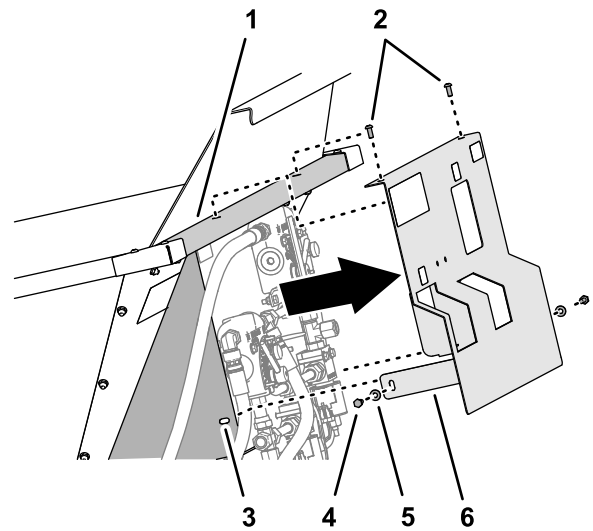


Figure 25

- Hopper (front wall)
- Button-head screws
- Valve mount
- Capscrew
- Washer
- Hydraulic guard

- Secure the hydraulic guard to the hopper wall ([Figure 25](#)) with the 2 button-head screws that you removed in [Removing the Top Dresser Hydraulic Guard](#) (page 9).
- Secure the hydraulic guard to the valve mount with the 2 capscrews and 2 washers that you removed in [Removing the Top Dresser Hydraulic Guard](#) (page 9).
- Remove the 2 capscrews and 2 washers that secure the hydraulic guard to the valve mount of the top dresser ([Figure 17](#)).
- Remove the 2 button-head screws that secure the hydraulic guard to the front wall of the hopper, and remove the guard ([Figure 17](#)).

7

Installing Top Dresser Wire Harness and Optional Equipment

No Parts Required

Procedure

Important: When routing either the hydraulic hoses or the electrical wire harness, always make sure that you route them away from of all hot, sharp, or moving components and always ensure that there is no stress on the hoses or wire harness. This may require loosening and repositioning the hydraulic hose at the front bulkhead.

1. Route and connect the top dresser electrical harness; refer to the *Operators Manual* for the top dresser.

Note: If the electrical connection is installed near the battery of the Workman vehicle, route the electrical power cord from the top dresser to the back of the vehicle, at the pivot location, then forward to the battery.

Note: If the electrical connection is installed at the rear of the vehicle, route and secure the electrical power cord to the hydraulic pressure and return hoses from the front to the rear of the top dresser.

2. Install the optional equipment and connect the hydraulic hoses to the top dresser; refer to the *Installation Instructions* for the optional equipment.

Note: Ensure that the pressure and return hoses are attached to the rear of the Workman and do not contact with the optional equipment.

8

Installing the Side Shields

Parts needed for this procedure:

1	Left side shield
1	Right side shield
10	Flange-head capscrew (1/4 x 3/4 inch)
6	Flange locknut (1/4 inch)

Procedure

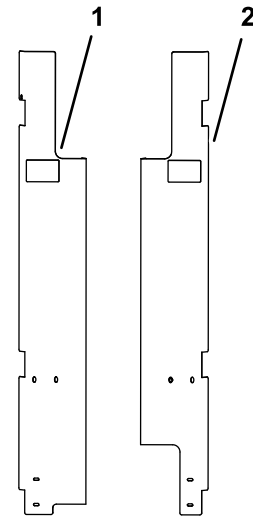


Figure 26

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1. Left side shield
2. Right side shield

1. Align the slots in the side shield with the slots in the 2 shield supports of the center and rear cross members and the L-bracket of the front cross member (Figure 27).

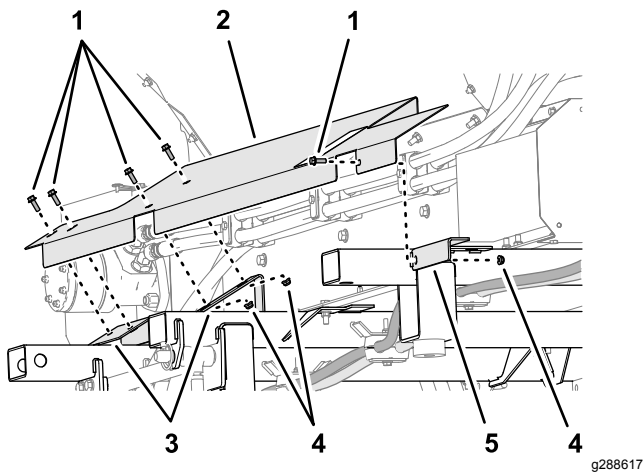


Figure 27

Right side shield shown

- | | |
|--|-----------------------------------|
| 1. Flange-head capscrews (1/4 x 3/4 inch) | 4. Flange locknuts (1/4 inch) |
| 2. Side shield | 5. L-bracket (front cross member) |
| 3. Shield supports (center and rear cross members) | |

2. Assemble the side shield to the shield support at the center cross member (Figure 27) with 2 flange-head capscrews (1/4 x 3/4 inch) and 2 flange locknuts (1/4 inch).
3. Assemble the side shield to the L-bracket at the front cross member (Figure 27) with a flange-head capscrew (1/4 x 3/4 inch) and a flange locknut (1/4 inch).
4. Assemble the side shield to the shield support at the rear cross member (Figure 27) with 2 flange-head capscrews (1/4 x 3/4 inch).
5. Torque the capscrews and locknuts to 1017 to 1243 N·m (90 to 110 in-lb).
6. Repeat steps 1 through 5 for the side shield at the other side of the machine.

9

Connecting the Hydraulic Hoses to the Vehicle

No Parts Required

Procedure

1. Remove bed support from the lift cylinder of the vehicle and stow the support.
2. Lower the top dresser onto the chassis of the vehicle.
3. Plug the quick-disconnect fitting of the return hose (the hose with the arrow decal affixed) into the upper quick-disconnect fitting of the vehicle (Figure 28).

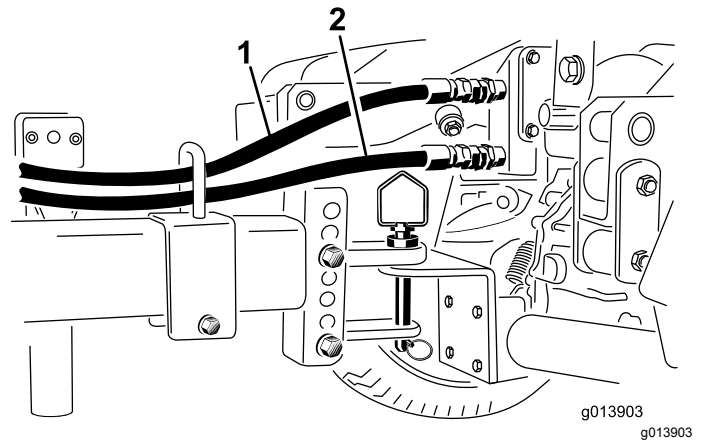


Figure 28

- | | |
|----------------|------------------|
| 1. Return hose | 2. Pressure hose |
|----------------|------------------|

4. Plug the quick-disconnect fitting of the pressure hose into the lower quick-disconnect fitting of the vehicle (Figure 28).

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Completing the Chassis Mount Kit Installation

No Parts Required

Procedure

1. Remove the 4 button-head screws that secure the lifting bracket to the wall of the hopper (Figure 29).

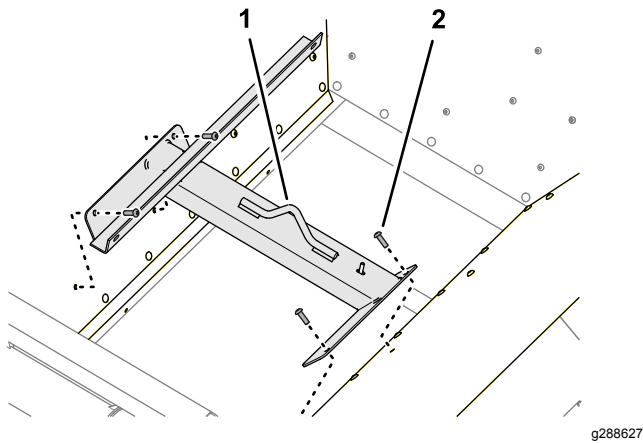


Figure 29

- | | |
|--------------------|----------------------|
| 1. Lifting bracket | 2. Button-head screw |
|--------------------|----------------------|

-
2. Assemble the button-head screws into the wall of the hopper and tighten the screws (Figure 29).
 3. For Model 44701, connect the On/Off pendant to the top dresser and place the pendant in the seating area of the vehicle.

Notes:



Count on it.