



Electric Bed Lift Kit

For Workman 1100/2100 and Twister Utility Vehicle

Model No. 07259, 07259R

Installation Instructions

Installation

Loose Parts

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

Step	Description	Qty.	Use
1	None		Prepare the machine
2	Lift bracket, upper Flange head screws (5/16 x 3/4 inch) Lift cylinder support Lift actuator U-bolts Flange nut (3/4 inch) Carriage bolts (3/8 x 3/4 inch) Clevis pin Cotter pin Nylon washer Steel washer	1 4 1 1 2 6 2 1 1 1 3	Install the bed lift
3	Switch Fuse, 15 amp Clevis pin Cotter pin	1 1 1 1	Install the switch

Note: If this kit is used on Model No. 07253 with a serial number of 210000243 and prior or Model No. 07253TC with a serial number of 210000393 and prior, you will need to order an Upper Lift Bracket, Part No. 99-7710-03.

Step

1

Preparing the Machine

Parts needed for this step:

	None
--	------

Procedure

1. Position the machine on a level surface. Set the parking brake, turn the ignition off, and remove the key.



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

Remove the key from the ignition switch before you do any maintenance.

2. Raise the bed. Rotate the latch rod upward and raise the box with the other hand.
3. Raise the box to its full height; then lower it slightly to engage the prop rod (Figure 1).



A raised box could fall and injure persons that are working beneath it.

- Always use the prop rod to hold the box up before working under the box.
- Remove any load material from the box before raising it.

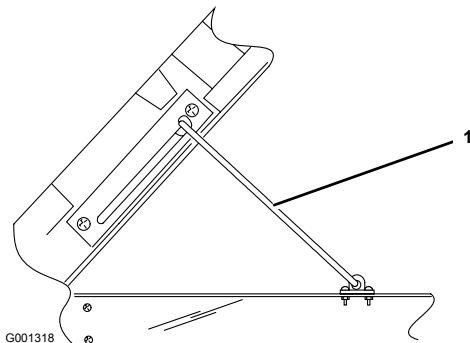


Figure 1

1. Prop rod

4. Disconnect the battery cables from the battery.
5. Remove the rubber strap securing the battery to the battery base. Lift the battery out of the battery base.

For machines with Serial numbers 259999999 and lower:

Remove the 2 flange head screws securing each side of the latch rod bracket to the front of the rear frame (Figure 2).

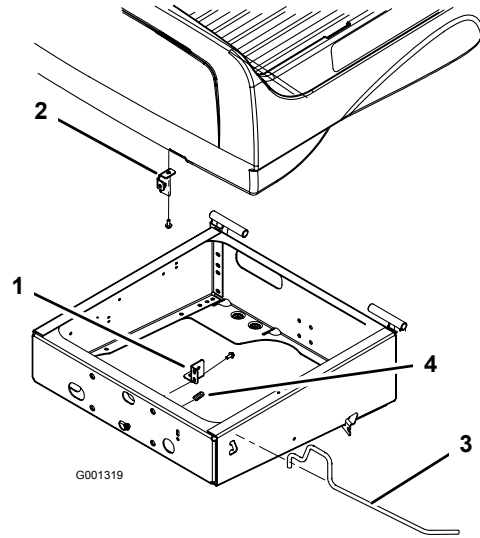


Figure 2

1. Latch rod bracket
2. Latch hook
3. Latch rod
4. Spring

For machines with Serial numbers 260000001 and up:

Remove the 2 flange head screws securing each side of the latch rod bracket to the underside and front face of the box (Figure 3). Retain all parts for future use.

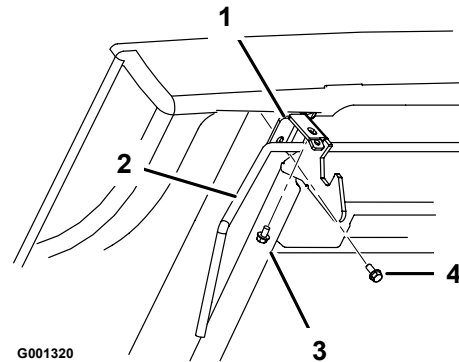


Figure 3

1. Latch rod bracket
2. Latch rod
3. Flange head screw, inside front face of box
4. Flange head screw, underside of box

Step

2

Installing the Bed Lift

Parts needed for this step:

1	Lift bracket, upper
4	Flange head screws (5/16 x 3/4 inch)
1	Lift cylinder support
1	Lift actuator
2	U-bolts
6	Flange nut (3/4 inch)
2	Carriage bolts (3/8 x 3/4 inch)
1	Clevis pin
1	Cotter pin
1	Nylon washer
3	Steel washer

Procedure

1. Remove the screws from the braces on the underside of the box in the positions shown in (Figure 4).
2. Mount the upper lift bracket to the underside of the box with 6 flange head screws (5/16 x 3/4 inch) from loose parts and removed previously. Position the bracket as shown in Figure 4.

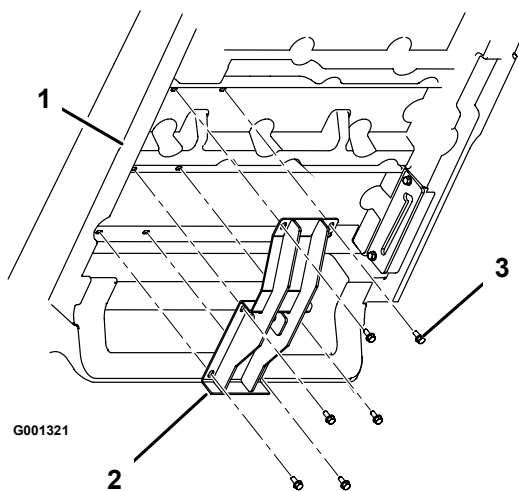


Figure 4

1. Bed
2. Upper lift bracket
3. Flange head screw, 5/16 x 3/4 inch

3. Loosely mount the lift cylinder support to the right end of the rear axle with 2 U-bolts and 4 flange nuts (3/4 inch) while aligning the mounting holes with the holes in the battery tray (Figure 5).

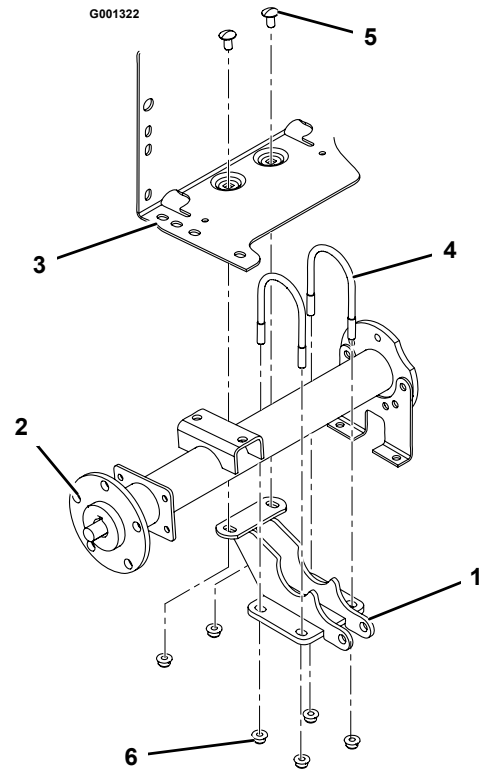


Figure 5

1. Lift cylinder support
2. Right end of the axle
3. Rear frame battery tray
4. U-bolt
5. Carriage bolt, 3/8 x 3/4 inch
6. Flange nut, 3/4 inch

4. Secure the lift cylinder support to the rear frame with 2 carriage bolts (3/8 x 3/4 inch) and 2 flange nuts (3/4 inch). Tighten the 4 flange nuts on the U-bolts equally to make sure the bracket is aligned to the axle. Tighten the two nuts securing the rear of the bracket to the rear frame (Figure 5).
5. Mount the bottom end of the lift actuator to the lift cylinder support with a clevis pin and

cotter pin. Position the components as shown in Figure 6.

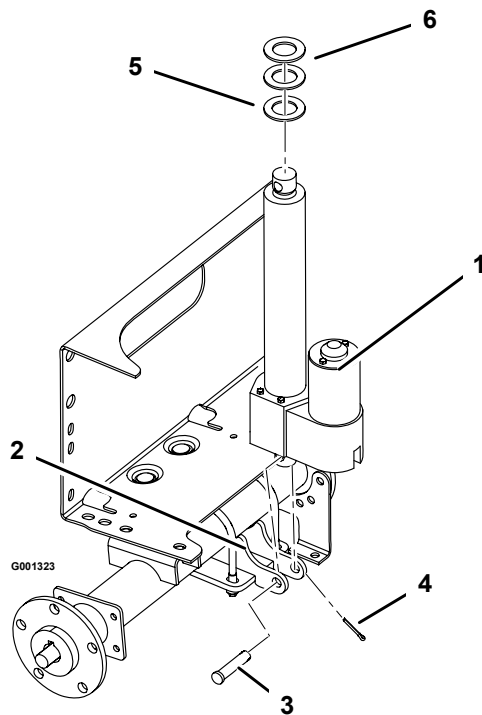


Figure 6

- | | |
|--------------------------|------------------|
| 1. Actuator | 4. Cotter pin |
| 2. Lift cylinder support | 5. Nylon washer |
| 3. Clevis pin | 6. Steel washers |

- Slide a nylon washer onto the actuator rod, then slide on one steel washer.

Note: Additional steel washers are provided and can be used to adjust the lower stop of the actuator rod.

Step 3

Installing the Switch

Parts needed for this step:

1	Switch
1	Fuse, 15 amp
1	Clevis pin
1	Cotter pin

Procedure

- Remove the plug from the hole in the right side of the dash (Figure 7).

Note: If the hole in the dash is in use, measure over 1/2 inch (13 mm) and cut another 0.835 inch x 1.46 inch (21 mm x 35 mm) rectangular hole in the dash. Make sure not to damage any existing components behind the dash when cutting the hole.

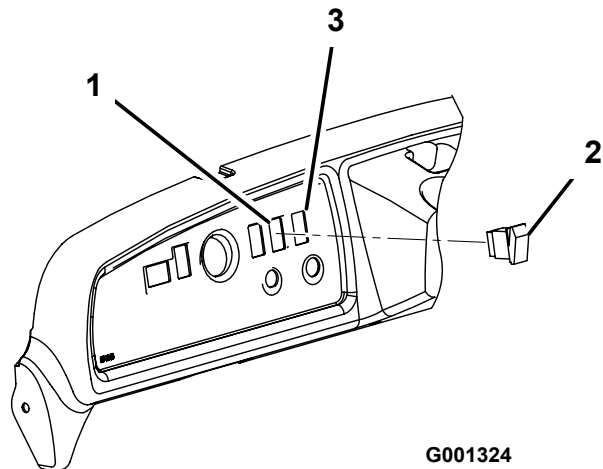


Figure 7

- | | |
|-----------------|-------------------------------|
| 1. Plugged hole | 3. Cut new hole (if required) |
| 2. Switch | |

- Plug the switch into the harness connector in the dash. Insert the switch into the hole in the dash (Figure 7).
- Remove the cover to expose the fuse block. Install a new fuse (15 amp) into the open slot in the fuse block. Install the cover.

4. Plug the actuator harness into the vehicle harness connector, located near the fuse block.
5. Install the battery and connect the cables.
6. Press the switch upward to extend the actuator rod until it is aligned with the mounting holes in the upper lift bracket. Secure the rod to the bracket with the clevis pin and cotter pin.
7. Remove the screws and clip securing the prop rod to the frame rail (Figure 8).

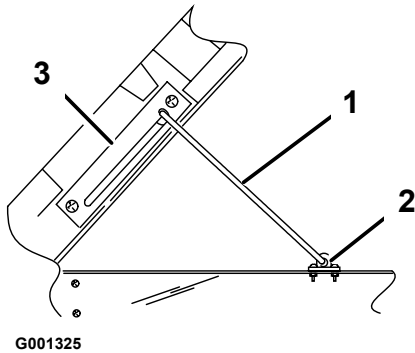


Figure 8

- | | |
|------------------|---------------------|
| 1. Prop rod | 3. Prop rod bracket |
| 2. Prop rod clip | |

-
8. Remove the screws securing the prop rod bracket to the underside of the box. Remove the retainer securing the rod to the bracket and remove the rod (Figure 8). Retain the prop rod components for future use.

Note: If the electric box lift is ever removed, install the prop rod, prop rod clip, and prop rod bracket.

Operation

Raising the Bed



Driving the vehicle with the cargo box raised may cause the vehicle to tip or roll easier. The box structure may become damaged if the box is raised for an extended period of time while operating the vehicle.

- Only operate the vehicle when the cargo box is down.
- After a load has been dumped, lower the cargo box.

1. Turn the ignition key to the On position.
2. Push the top of the switch to raise the box.

Important: When a ratcheting noise is heard, the box lift is completely extended or retracted. Do not continue pressing the switch.

Lowering the Bed



The weight of the box may be heavy. Hands or other body parts could be crushed.

Keep hands and other body parts clear when lowering the box.

1. Push the bottom of the switch to lower the box.

Note: The bed will deform slightly before the actuator clutch begins to engage. If the bed floor deforms more than 1/4 inch add additional steel washers to the raise the lower stop of the actuator rod. When bed is pulled tight to the vehicle frame, but the bed floor does not deform more than 1/4 inch the lift has been adjusted correctly.

2. Turn the ignition key to the Off position and remove the key.



Count on it.