Installation Instructions

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 left side pod and fuel-tank cap.
3	No parts required	_	Remove the existing left motion-control lever.
4	No parts required	_	Remove the deck-lift spring.
5	Left motion-control lever	1	Install the new left motion-control lever.
6	Drilling template	1	Drill holes into the frame using the provided template.
7	Button-head cap screws Locknuts Bracket Actuator pivot pin	3 2 1 1	Install the actuator brackets and rear-lift hardware.
8	Deck lift wire harness Push-mount fastener Relay Taptite screw	1 1 2 1	Route the wire harness and install the relays.
9	No parts required	_	Install the left side pod and fuel-tank cap.
10	No parts required	_	Connect the wire harness.
11	Actuator Pin clip Shoulder screw	1 1 1	Install the actuator.
12	No parts required	_	Remove the transport lock.
13	No parts required	_	Check the mower deck height of cut and rake.

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





Preparing the Machine

No Parts Required

Procedure

- 1. Park the machine on a level surface.
- 2. Disengage the blade-control switch.
- 3. Move the motion-control levers outward to the NEUTRAL-LOCK position.
- 4. Engage the parking brake.
- 5. Shut off the engine and remove the key.
- 6. Disconnect the negative battery cable.
- Push the deck-lift pedal fully forward to lock the mower deck in the TRANSPORT position (Figure 1).

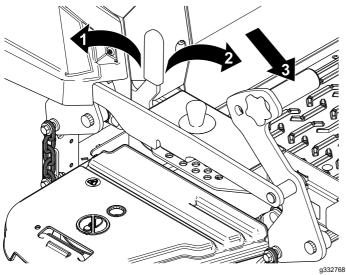
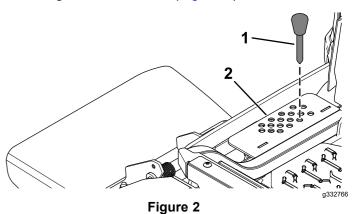


Figure 1

- LOCK position—the mower deck locks into the transport position.
- 2. UNLOCK position—the mower deck does not lock into the transport position.
- Push on the deck-lift pedal using your foot to raise the mower deck.

- 8. Support the mower deck using 4x4 blocks of wood.
- 9. Remove the height-of-cut pin from the height-of-cut bracket (Figure 2).



- 1. Height-of-cut pin
- 2. Height-of-cut bracket



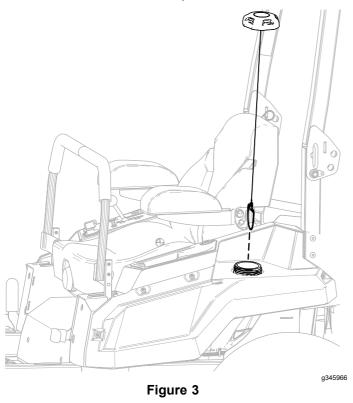
Removing the Left Side Pod and Fuel-Tank Cap

No Parts Required

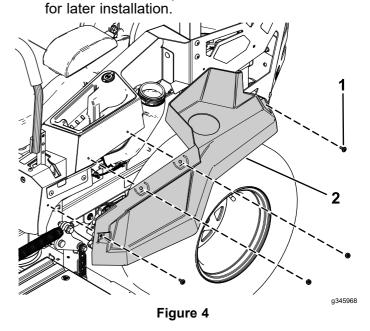
Procedure

1. Remove the fuel-tank cap from the left side pod (Figure 3).

Retain the fuel-tank cap for later installation.



 Remove the 4 shoulder screws securing the left side pod and remove the left side pod (Figure 4).
 Retain the left side pod and 4 shoulder screws



- 1. Shoulder screw
- 2. Left side pod
- 3. Install the fuel-tank cap (Figure 3).

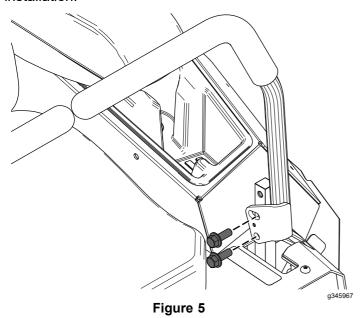
Removing the Existing Left Motion-Control Lever

No Parts Required

Procedure

Remove the 2 flange-head bolts (3/8 x 1 inch) securing the existing left motion-control lever and remove the left motion-control lever (Figure 5).

Retain the 2 flange-head bolts (3/8 x 1 inch) for later installation.



4

Removing the Deck-Lift Spring

No Parts Required

Procedure

- 1. Remove the spring bolt securing the front of the deck-lift spring (Figure 6).
- 2. Remove the shoulder bolt and locknut (1/2 inch) securing the rear of the deck-lift spring (Figure 6).
- 3. Remove the deck-lift spring (Figure 6).

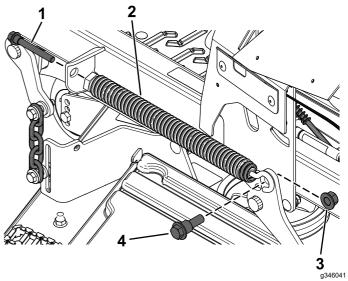


Figure 6

- 1. Spring bolt
- 2. Deck-lift spring
- 3. Locknut (1/2 inch)
- 4. Shoulder bolt



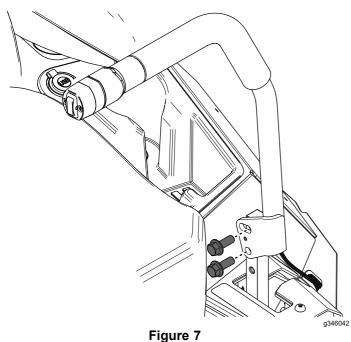
Installing the New Left Motion-Control Lever

Parts needed for this procedure:

Left motion-control lever

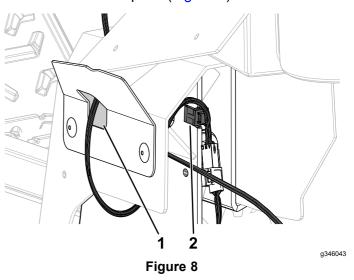
Procedure

1. Secure the new left motion-control lever using the previously removed 2 flange-head bolts (3/8 x 1 inch) as shown in Figure 7.



Route the wire harness on the motion-control lever through the hole in the left cover plate (Figure 8).

Secure the wire harness to the notch in the left motion-control plate (Figure 8).



- 1. Route the harness through 2. Secure the wire harness the opening in the left cover plate here.
 - to the notch here.



Drilling the Frame

Parts needed for this procedure:

1	Drilling template
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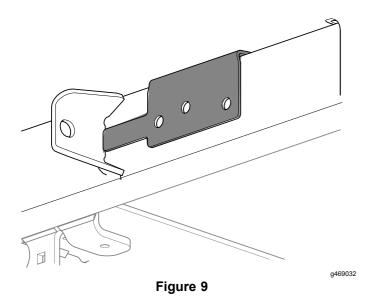
Procedure

 Install the drilling template onto the frame tube. Ensure the template is flush to the spring bracket.

A WARNING

Using a drill without proper eye protection may allow debris to enter the eye, causing injury.

When drilling, always wear eye protection.



Drill holes into the frame using a Letter X drill bit.

Important: Do not drill completely through one side. Drill from one side and then finish drilling from the other side.

Remove the drilling template from the frame tube.

7

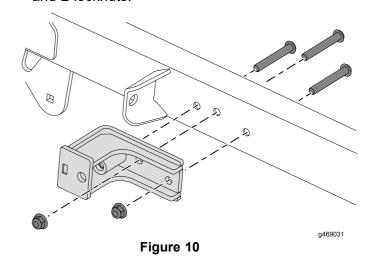
Installing the Actuator Brackets

Parts needed for this procedure:

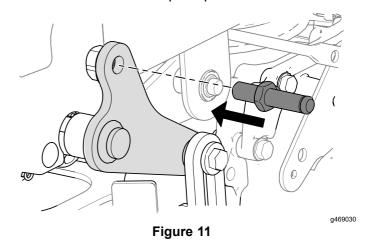
3	Button-head cap screws
2	Locknuts
1	Bracket
1	Actuator pivot pin

Procedure

1. Install the bracket with 3 button-head cap screws and 2 locknuts.



2. Install the actuator pivot pin.





Routing the Wire Harness and Installing the Relays

Parts needed for this procedure:

1	Deck lift wire harness
1	Push-mount fastener
2	Relay
1	Taptite screw

Procedure

1. Install the front push-mount fastener into the parking-brake lever bracket (Figure 12).

Note: The rear push-mount fastener is already installed.

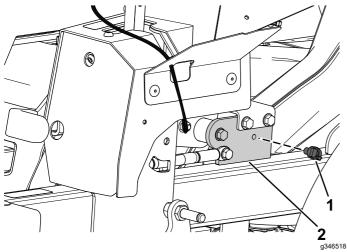


Figure 12

- 1. Push-mount fastener
- 2. Parking-brake lever bracket

2. Route the wire harness (Figure 13) along the left side of the frame, through the push-mount fastener you installed in step 1.

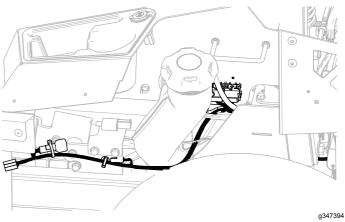


Figure 13

3. Install the second push-mount fastener into the rear fuel-tank bracket (Figure 14).

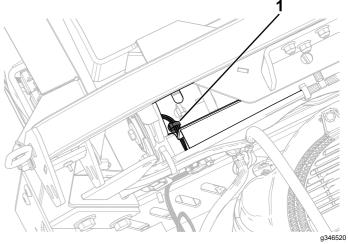
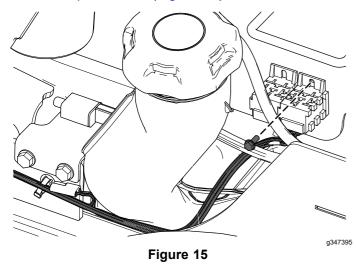


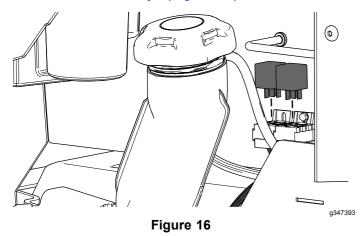
Figure 14

1. Push-mount fastener

4. Secure the wire harness near the relays using the taptite screw (Figure 15).



5. Install the 2 relays (Figure 16).



9

Install the Left Side Pod and Fuel-Tank Cap

No Parts Required

Procedure

- 1. Remove the fuel-tank cap (Figure 3).
- 2. Secure the left side pod using the previously removed 4 shoulder screws (Figure 4).
- 3. Install the fuel-tank cap (Figure 3).

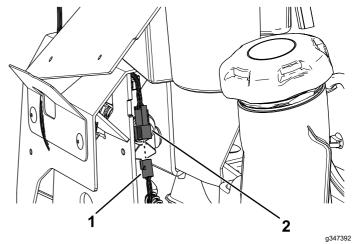


Connecting the Wire Harness

No Parts Required

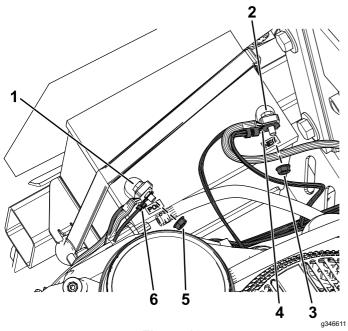
Procedure

- 1. Connect the kit wire harness to the machine wire harness connector labeled CONN-DECK LIFT.
- 2. Connect the kit wire harness connector to the new left motion-control lever connector (Figure 17).



- Figure 17
- Kit wire harness connector 2. New left motion-control lever connector
- 3. Connect the kit wire harness to the actuator.

- 4. Pull the boot cover off the positive battery terminal.
- 5. Remove the nut from the positive battery terminal and install the kit wire harness positive terminal ring onto the bolt (Figure 18).
- 6. Secure the positive terminal ring using the previously removed nut (Figure 18).
- 7. Install the boot cover over the positive battery terminal.
- 8. Remove the nut from the negative battery terminal and install the kit wire harness negative terminal ring onto the bolt (Figure 18).
- 9. Secure the negative terminal ring using the previously removed nut (Figure 18).



- Figure 18
- 1. Positive terminal bolt
- 2. Negative terminal bolt
- 3. Negative terminal nut
- 4. Kit wire harness negative terminal ring
- 5. Positive terminal nut
- 6. Kit wire harness positive terminal ring



Installing the Actuator

Parts needed for this procedure:

1	Actuator
1	Pin clip
1	Shoulder screw

Procedure

 Plug the actuator wire harness into the deck lift wire harness.

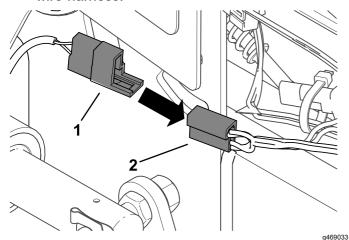
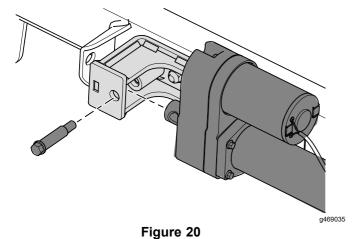


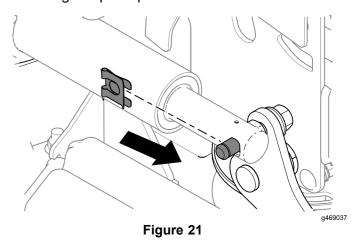
Figure 19

- 1. Actuator wire harness
- Electric deck lift wire harness
- 2. Install the actuator.

Note: If the actuator does not line up with the pin, power up the actuator and extend or retract as needed.



3. Secure the actuator to the rear deck-lift arm using the pin clip.



 Rotate the actuator upward and align the actuator with the hole in the outer actuator bracket.

If the holes **do not** align, turn the machine on, and carefully press the deck-lift switch on the motion-control lever up or down until the holes align.

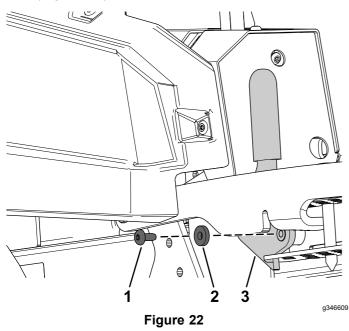
12

Removing the Transport Lock

No Parts Required

Procedure

- Push the deck-lift switch upward until you hear a ratcheting sound or clicking sound from the actuator.
- 2. Turn off the machine.
- 3. Remove the bolt, washer, and transport lock (Figure 22).



- 1. Bolt
- 2. Washer
- 3. Transport lock

13

Checking the Mower Deck Height of Cut and Rake

No Parts Required

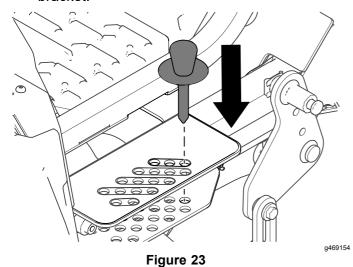
Procedure

Refer to the Adjusting the Side-to-Side Leveling and the Blade Slope procedure in the *Operator's Manual*.

Operation

Machine Transport with Electric Deck Lift

- 1. Push up on the deck-lift switch until the deck is completely raised.
- Insert the height-of-cut pin into the 140 mm (5-1/2 inches) height-of-cut position of the bracket.



Push down on the deck-lift switch until the height-of-cut linage slightly contacts the height-of-cut pin.

Important: Transporting the machine without the deck resting on the height-of-cut pin will cause unnecessary damage to the deck lift actuator.

Adjusting the Height of Cut

1. Push up on the deck-lift switch.

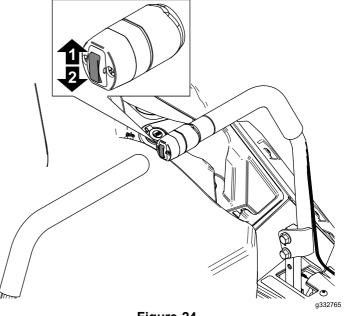


Figure 24

- Push up to raise the deck. 2. Push down to lower the deck.
- Select a hole in the height-of-cut bracket corresponding to the height of cut desired, and insert the pin.
- Push down on the deck-lift switch until the height-of-cut linkage slightly contacts the height-of-cut pin.

Note: Too much contact between the height-of-cut linkage and height-of-cut pin can negatively affect the mower deck height of cut and leveling.

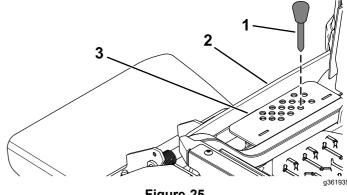


Figure 25

- Height-of-cut pin
- 2. Height-of-cut linkage
- 3. Height-of-cut bracket