Actuator Replacement Kit Z Master® 4000 Series

Model No. 161-3549

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	ı	Prepare the machine.
2	No parts required	-	Remove the actuator.
3	Drilling template	1	Drill holes into the frame using the provided template.
4	Actuator	1	
	Button-head cap screws	3	
	Locknuts	2	
	Bracket	1	Install the actuator.
	Actuator pivot pin	1	
	Clip pin	1	
	Shoulder screw	1	
5	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.

- 7. Support the mower deck using 4x4 blocks of wood.
- 8. Remove the height-of-cut pin from the height-of-cut bracket (Figure 1).

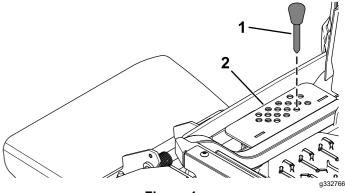


Figure 1

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

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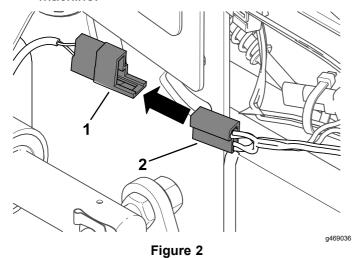


Removing the Actuator

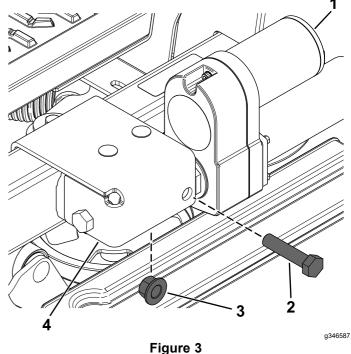
No Parts Required

Procedure

1. Disconnect the actuator connector from the machine.



- 1. Actuator wire harness
- 2. Electric deck lift wire harness
- 2. Remove the actuator. Discard parts.



- 1. Actuator
- Flange-head bolt (1/2 x 2-1/4 inches)
- 3. Locknut (1/2 inch)
- 4. Outer actuator bracket

Drilling the Frame

Parts needed for this procedure:

1	Drilling template
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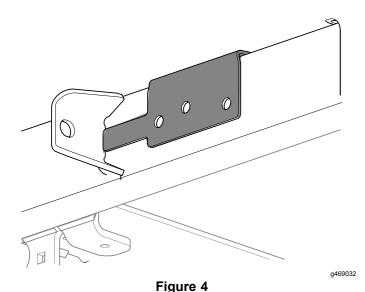
Procedure

 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.



2. 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.

3. Remove the drilling template from the frame tube.

4

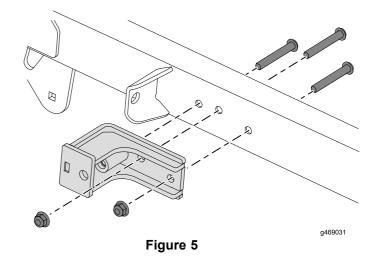
Installing the Actuator

Parts needed for this procedure:

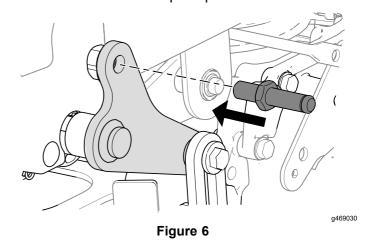
1	Actuator
3	Button-head cap screws
2	Locknuts
1	Bracket
1	Actuator pivot pin
1	Clip pin
1	Shoulder screw

Procedure

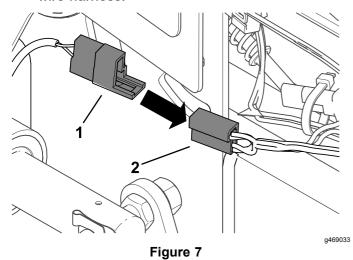
1. Install the bracket with 3 button-head cap screws and 2 locknuts.



Install the actuator pivot pin.



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



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

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

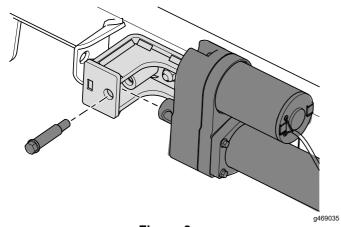
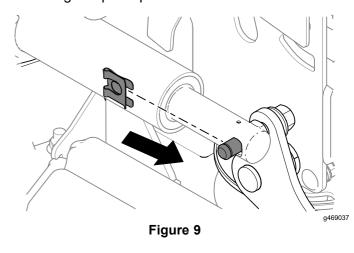


Figure 8

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





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.
- 2. Insert the height-of-cut pin into the 140 mm (5-1/2 inches) height-of-cut position of the bracket.

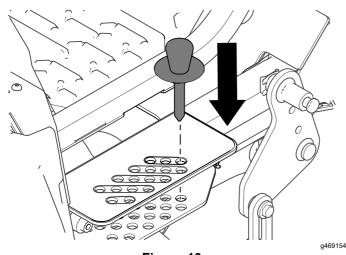


Figure 10

 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.

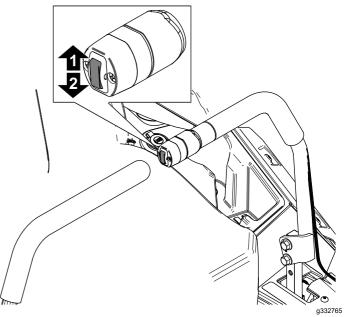


Figure 11

- 1. Push up to raise the deck.
- Push down to lower the deck.
- 2. Select a hole in the height-of-cut bracket corresponding to the height of cut desired, and insert the pin.
- 3. 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.

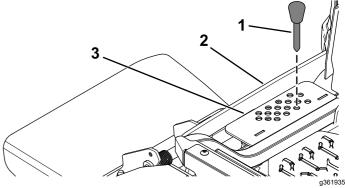


Figure 12

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

Notes:

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