



Z100 Series Z Master[®] Mowers

Form No. 3329-965

Setup Instructions

Loose Parts

Use steps 1 through 12 in the following chart to verify all parts have been shipped and as a guide through the setup.

Step	Description	Qty.	Use
1	No parts needed	–	Raising the machine up
2	Roll bar, right section Roll bar, left section Roll bar, center section Bolt, 3/8 x 1 inch Curved washer, 3/8 inch Flange nut, 3/8 inch Bolt, 1/2 x 3-1/4 inches Flange nut, 1/2 inch Lanyard	1 1 1 8 8 8 2 2 2	Installing the roll over protection system (ROPS)
3	Wheels	2	Installing the drive wheels
4	No parts needed	–	Checking the tire pressure
5	Seat Nuts (installed on the seat)	1 4	Installing the seat
6	Control lever–right Control lever–left Bolt, 3/8 x 1 inch Curved washer, 3/8 inch	1 1 4 4	Installing the motion control levers
7	Bulk electrolyte with 1.265 specific gravity (Purchase from a battery supply outlet.)	80 ounces	Activating the battery
8	Air cleaner cap Hose clamp	1 1	Installing the air cleaner cap
9	Number 2 general purpose lithium base or molybdenum base grease. (Purchase separately.)	1 tube	Greasing the bearings
10	No parts needed	–	Preparing the side discharge chute

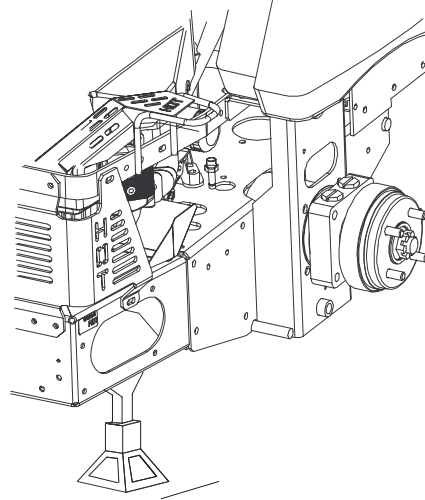
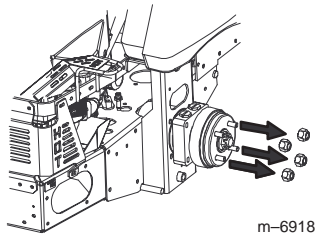
Step	Description	Qty.	Use
11	No parts needed.	–	Checking the machine before delivery
12	Key <i>Operator's Manual</i> <i>Engine Owner's Manual</i> <i>Parts Catalog</i> Safety video Registration card	2 1 1 1 1 1	Delivering the Machine to the Customer

Step**1****Raising the Machine Up****Parts needed for this step:**

None

Procedure

1. Remove the wheel nuts from both sides of the vehicle.
2. Remove the right angle retaining plate from the crate and the wheel hub.
3. Raise the back of the machine up and support it with jack-stands.



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Step

2

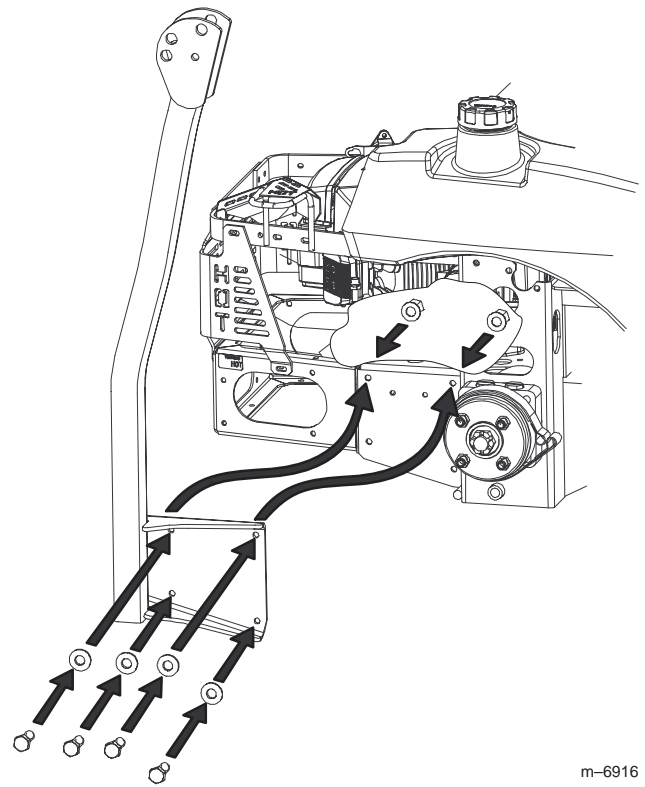
Installing the Roll Over Protection System (ROPS)

Parts needed for this step:

Qty.	Part
1	Roll bar, right section
1	Roll bar, left section
1	Roll bar, center section
8	Bolt, 3/8 x 1 inch
8	Curved washer
8	Flange nut, 3/8 inch
2	Bolt, 1/2 x 3-1/4 inches
2	Flange nut, 1/2 inch
2	Lanyard

Procedure

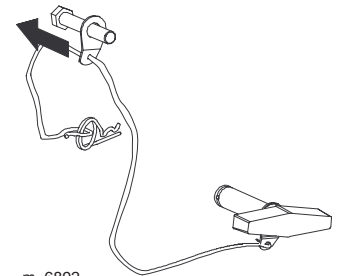
1. Loosely install the right and left roll bar sections to the frame, using 8 bolts (3/8 x 1 inch), 8 curved washers, and 8 flange nuts (3/8 inch).



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2. Install the lanyard clips onto the 2 bolts (1/2 x 3-1/4 inches).

Note: Make sure the bent tab points toward the head of the bolt.



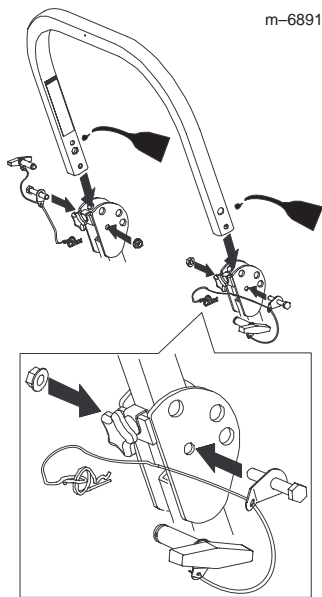
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3. Lightly oil the ends of the center roll bar section.

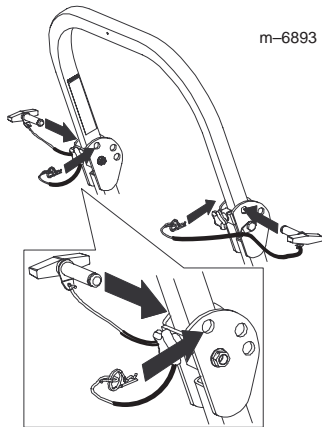
4. Loosely install the center roll bar section, using 2 bolts (1/2 x 3-1/4 inches) and 2 flange nuts (1/2 inch).

Note: Make sure the bolts are installed on the outside of the roll bar.

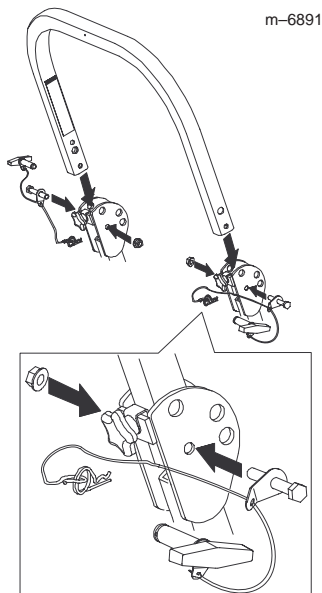
Note: Make sure the lanyard tab is install as shown and points forward.



5. Raise the roll bar into the upright position and secure it with the pins and hairpin cotter pins fastened to the lanyards.



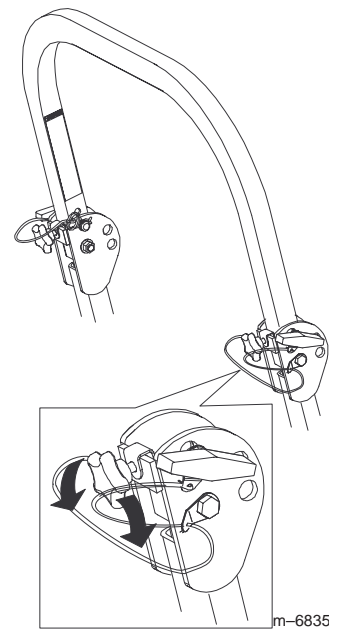
6. Torque all lower fasteners, attached to the machine frame, to 30 ft-lb.



7. Tighten the center roll bar bolts (1/2 x 3-1/4 inches) so the roll bar rotates freely with some resistance.

Note: No more than one thread should be exposed outside the nut.

8. Tighten the front handles against the center roll bar ends.



Step

3

Installing the Drive Wheels

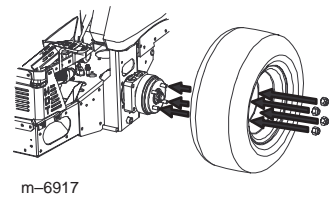
Parts needed for this step:

Qty.	Part
2	Rear wheels

Procedure

1. Mount the wheels with the valve stem to the outside and secure them with the nuts previously removed in Step 1.

2. Torque the nuts to 95 ft-lb (128 N-m).



Step**4**

Checking the Tire Pressure

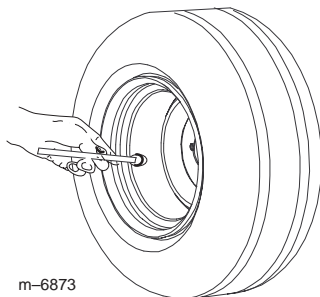
Parts needed for this step:

None

Procedure

Check the air pressure in the front and rear tires.

Pressure: 13 psi
(90 kPa)



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Step**5**

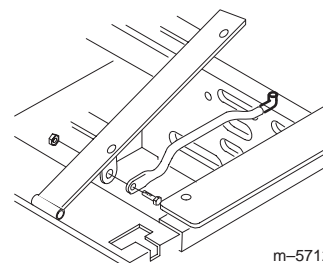
Installing the Seat

Parts needed for this step:

None

Procedure

1. Remove the bolt and nut from the seat frame.
2. Secure the seat rod to the seat with the bolt and nut.



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Step

6

Installing the Motion Control Levers

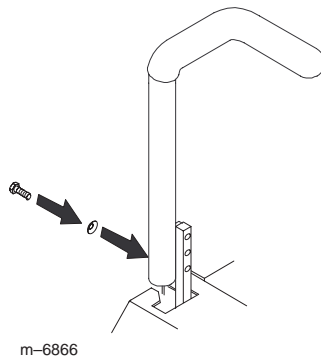
Parts needed for this step:

Qty.	Part
1	Control lever-right
1	Control lever-left
4	Bolt, 3/8 x 1 inch (2 assembled)
4	Curved washer, 3/8 inch (2 assembled)

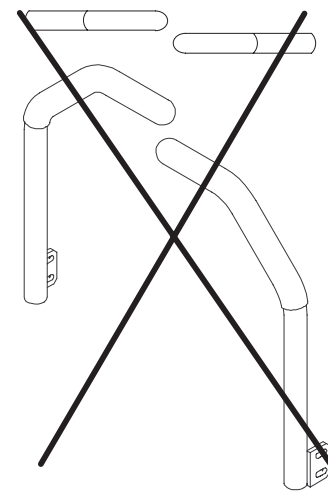
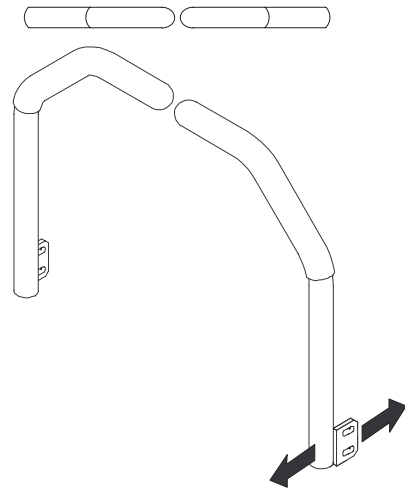
Procedure

1. Rotate the handles to the upright position.
2. Loosely install the levers on the outside of the posts, using 4 bolts and curved washers.

Note: Install the levers in the top and middle holes for the high position or the middle and bottom holes for the low position, as desired.



3. In the neutral position, raise the levers, bringing them together, and slide them until they are aligned, then tighten the bolts.



Step

7

Activating the Battery

Parts needed for this step:

Qty.	Part
80 ounces	Bulk electrolyte with 1.265 specific gravity (Purchase from a battery supply outlet.)

Procedure



Danger



Battery electrolyte contains sulfuric acid which is a deadly poison and causes severe burns.

- Do not drink electrolyte and avoid contact with skin, eyes or clothing. Wear safety glasses to shield your eyes and rubber gloves to protect your hands.
- Fill the battery where clean water is always available for flushing the skin.
- Follow all instructions and comply with all safety messages on the electrolyte container.



Warning



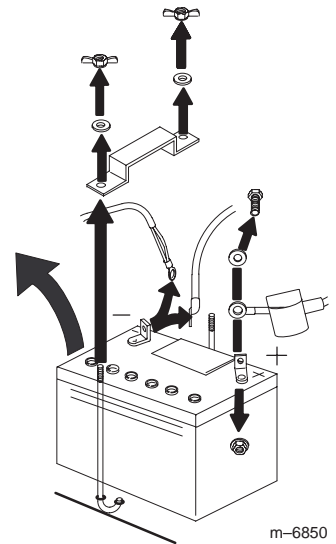
CALIFORNIA

Proposition 65 Warning

Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. *Wash hands after handling.*

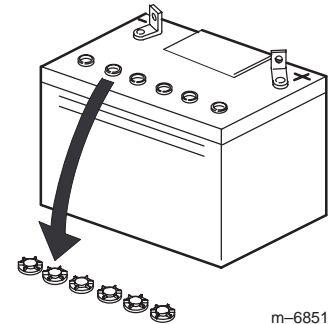
1. Remove the battery. Refer to the *Operator's Manual* for instructions.

Important: Do not add electrolyte while the battery is in the machine. You could spill it, causing corrosion.



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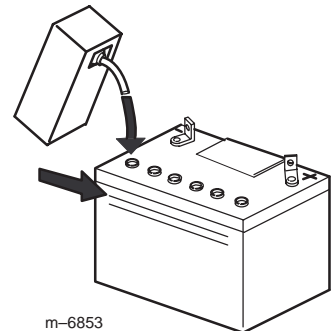
2. Clean the top of the battery and remove the vent caps.



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3. Slowly pour electrolyte into each battery cell until the level is up to the **upper** line on the battery case.

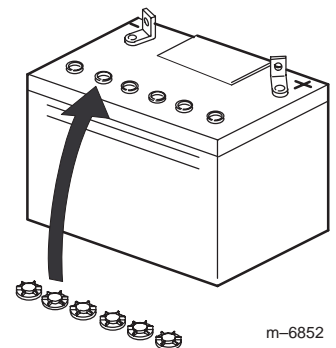
Important: Do not overfill the battery.



m-6853

4. Wait five to ten minutes, then add electrolyte, if necessary, until the electrolyte level is up to the **upper** line on the battery case.

5. Install battery filler caps.



m-6852

6. Charge the battery and then install it on the machine. Refer to the *Operator's Manual* for instructions.



Warning



Charging the battery produces gasses that can explode and cause serious injury.

- Keep cigarettes, sparks and flames away from the battery.
- Make sure the ignition switch is off.
- Ventilate when charging or using the battery in an enclosed space.

Important: Do not run the machine with the battery disconnected; electrical damage may occur to the engine computer.

Important: Do not jump start an EFI machine, or you may damage the electronic control unit.

Step

8

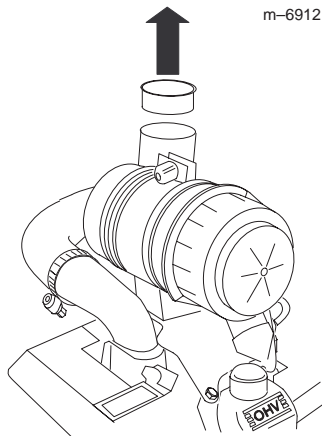
Installing the Air Cleaner Cap

Parts needed for this step:

Qty.	Part
1	Air cleaner cap
1	Hose clamp

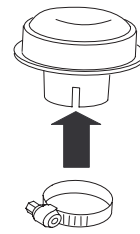
Procedure

1. Remove the plastic plug.

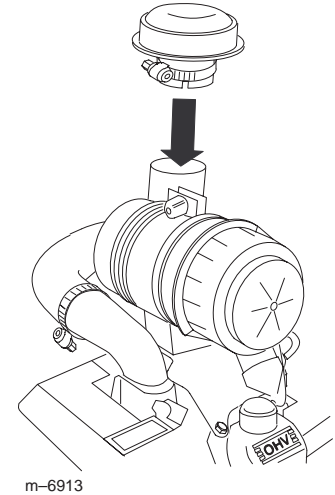


2. Remove the air cleaner cap from the machine.

3. Install the hose clamp onto the air cleaner cap.



4. Install the air cleaner cap onto the air cleaner and secure it with the hose clamp.



Step

9

Checking the Spindles for Grease

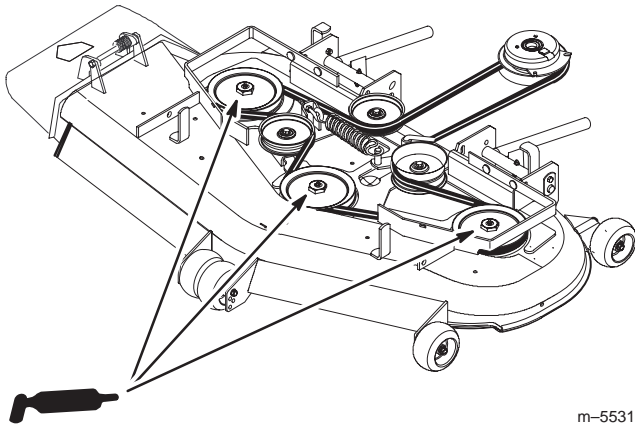
Parts needed for this step:

Qty.	Part
1 tube	Number 2 general purpose lithium base or molybdenum base grease. (Purchase separately.)

Procedure

Important: Check the **cutting unit spindles to make sure they are greased** before starting the engine.

1. Remove the belt covers.
2. Grease the fittings on the three spindle bearings.



m-5531

Step

10

Preparing the Side Discharge Chute

Parts needed for this step:

None

Procedure

Remove the plastic tie holding the side discharge chute up and lower the chute into place.

Step

11

Checking the Machine Before Delivery to the Customer

Parts needed for this step:

None

Procedure

Before delivering the machine to the customer, ensure that you perform or have performed the procedures listed in the following table and initial each when finished. Refer to the *Operator's Manual* for instructions on performing these procedures.

Initial	Check Procedure
	Check the tire pressure
	Check the level of the mower.
	Check that all mower spindles are greased.
	Check the engine oil level.
	Check the hydraulic fluid level.
	On liquid cooled machines, check the level of the coolant.
	Check the adjustment of the parking brake.
	Ensure that the machine tracks (drives) correctly.
	Check the safety interlock system.
	Ensure that the PTO works.
	Check all fasteners you installed to ensure that they are tight.

When you finish setting up the machine, sign and date in the space provided below:

Signature: _____

Date: _____

Step**12**

Delivering the Machine to the Customer

Parts needed for this step:

Qty.	Part
1	<i>Operator's Manual</i>
1	<i>Parts Catalog</i>
1	<i>Engine Owner's Manual</i>
1	Registration card
1	Safety video
2	Key

Procedure

At delivery, complete the items listed in the following table and initial each when finished.

Model Number: _____**Serial Number:** _____

Dealer Initial	Customer Initial	Check Procedure
		Show the customer where the following features are located and how they function: <ul style="list-style-type: none"> • Fuel Tank Caps • Oil Fill Tube/ Oil dipstick • Oil Filter • Oil Drain • Spark Plug(s) • Air Filter • Radiator Coolant • Hydraulic fluid reservoir • Hydraulic filter • Battery • Ignition Switch • Throttle Lever • Choke • Power Take Off Switch (PTO) • Motion Control Levers • Parking Brake • Mower Height-of-Cut Lever • Adjustable Seat • Hydraulic Bypass • Rollover Protection System (ROPS)
		Refer to the operator's manual to point out safety procedures, operation, and maintenance procedures.
		Review the warranty statement as shown in the <i>Operator's Manual</i> .
		Describe the post sale service procedures for your store.
		Assist the customer in filling out and mailing the registration card or register online at www.Toro.com .
		Make sure that the customer receives the <i>Operator's Manual</i> , <i>Parts Catalog</i> , and <i>Engine Owner's Manual</i> , <i>Set Up Instructions</i> , and safety video.
		Assist the customer in loading the mower.

Note: When you, the dealer representative, have finished delivering the machine to the customer, sign and date in the space provided below and keep a copy of this page for dealer records:

Signature: _____ **Date:** _____

Signature: _____ **Date:** _____