



Z400 Series Z Master[®] Mowers

Form No. 3351-723 Rev A

Setup Instructions

Loose Parts

Use the steps in the following chart to verify all parts have been shipped and to guide you through the setup.

Step	Description	Qty.	Use
1	No parts needed	—	Raising the machine
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 rollover 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 oz.	Activating the battery
8	No parts needed	—	Charging the battery
9	Air cleaner cap Hose clamp	1 1	Installing the air cleaner cap
10	No.2 general purpose lithium-base or molybdenum-base grease. (Purchase separately)	1 tube	Greasing the bearings
11	No parts needed	—	Checking the height-of-cut level of the mower

Step	Description	Qty.	Use
12	No parts needed	–	Preparing the side discharge chute
13	No parts needed	–	Checking the machine before delivery
14	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

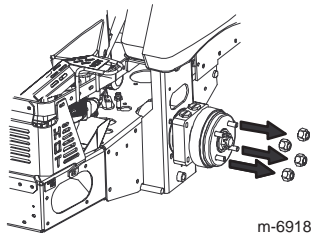
Raising the Machine

Parts Needed for This Step

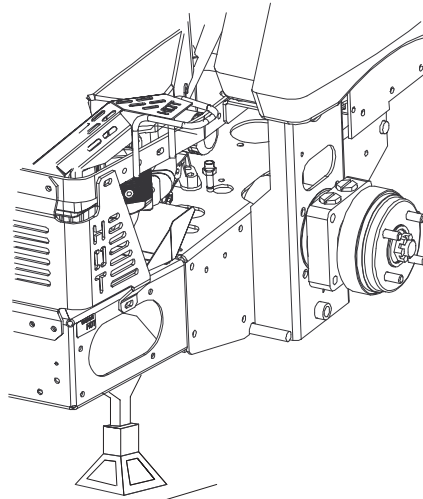
None

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.



Step

2

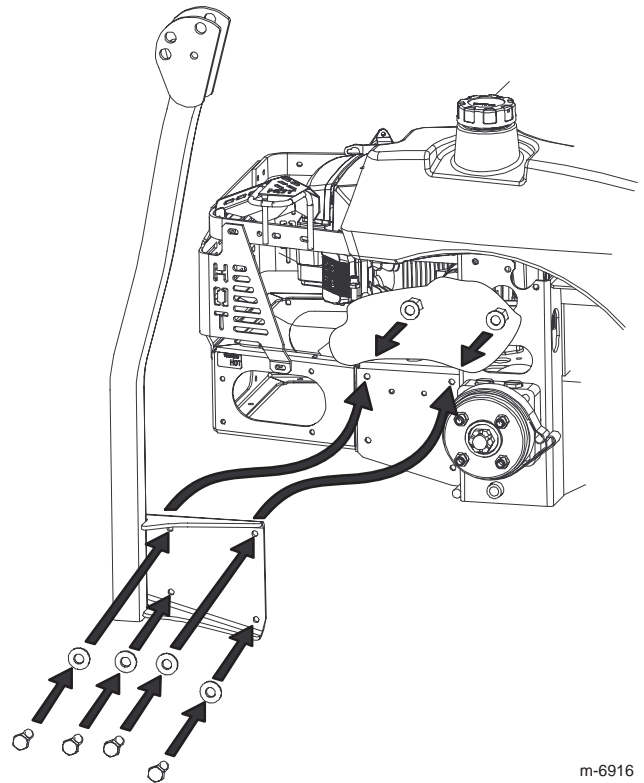
Installing the Rollover Protection System (ROPS)

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

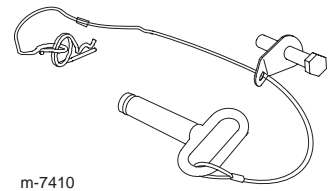
Procedure

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).



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.

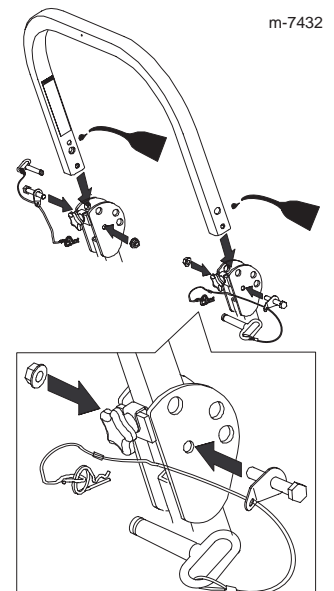


3. Lightly oil the ends of the center roll bar section.

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).

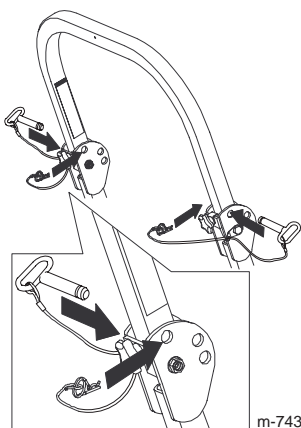
Note: Make sure the bolts are installed on the outside of the roll bar.

Note: Make sure the lanyard tab is installed 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.

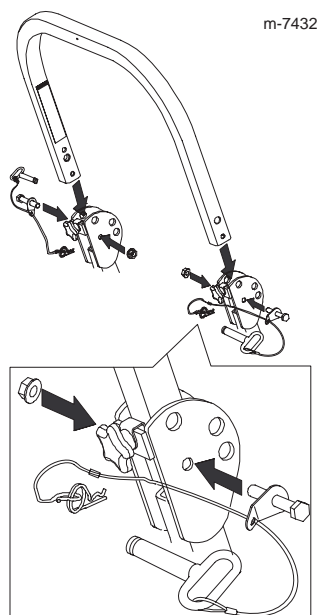
6. Torque all the lower fasteners that are attached to the machine frame to 30 ft-lb.



m-7431

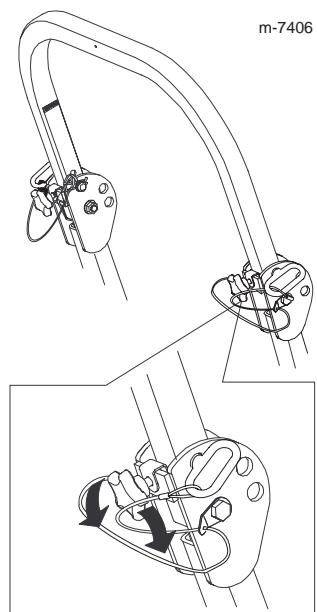
7. Tighten the center roll bar bolts (1/2 x 3-1/4 inches) so that the roll bar rotates freely with some resistance.

Note: Make sure that no more than one thread is exposed outside the nut.



m-7432

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



m-7406

Step

3

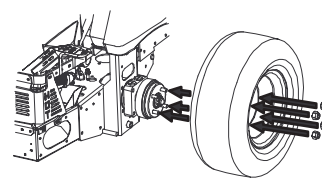
Installing the Drive Wheels

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 you previously removed in step 1.



m-6917

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

Step

4

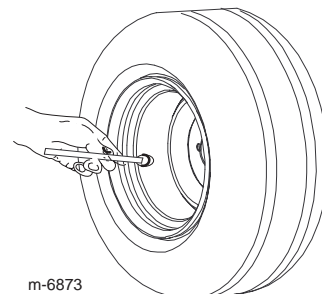
Checking the Tire Pressure

Parts Needed for This Step

None

Procedure

Check the air pressure in the front and rear tires and make sure that they are set to 13 psi (90 kPa).



m-6873

Step

5

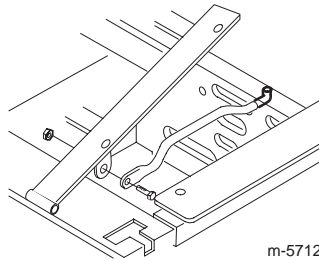
Installing the Seat

Parts Needed for This Step

None

Procedure

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



m-5712

Step

6

Installing the Motion Control Levers

Parts Needed for This Step

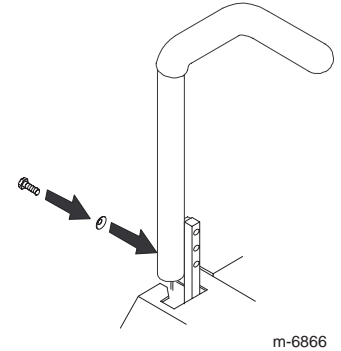
Qty.	Part
1	Control lever-right
1	Control lever-left
4	Bolt, 3/8 x 1 inch (2 assembled)
4	Curved washer, 3/8 inch (2 assembled)

Procedure

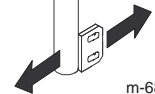
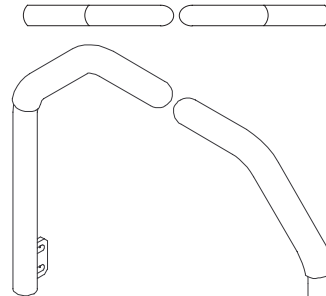
1. Rotate the control levers to the upright position.
2. Loosely install the control levers on the outside of the posts, using 4 bolts and 4 curved washers.

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

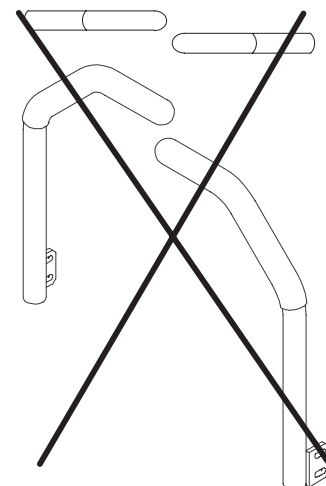
3. Raise the levers and align them together in the neutral position and tighten the bolts.



m-6866



m-6867



m-6868

Note: If the machine is not properly tracking, refer to Adjusting the Tracking in your *Operator's Manual*.

Step

7

Activating the Battery on International Machines

Parts Needed for This Step

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

Procedure



Danger



Battery electrolyte contains sulfuric acid, a deadly poison that can cause 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



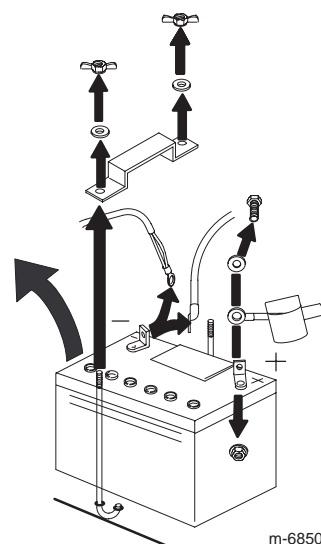
CALIFORNIA

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.*

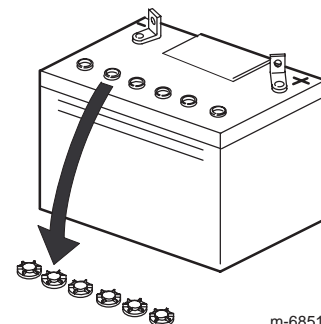
1. Remove the battery. Refer to the *Operator's Manual* for instructions.

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



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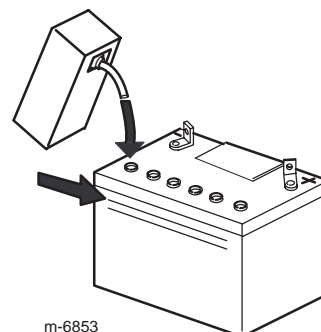
2. Clean the top of the battery and remove the vent caps.



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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.

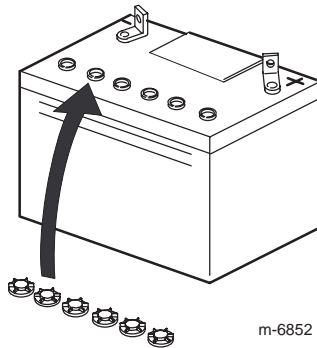
Important: Do not overfill the battery.



m-6853

4. Wait 5 to 10 minutes, then add electrolyte, if necessary, until the electrolyte level is up to the **upper** line on the battery case.

5. Install the battery filler caps.



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.
- Ensure that the ignition switch is off.
- Ventilate when charging or using the battery in an enclosed space.

Step

8

Charging the Battery

Parts Needed for This Step

None

Procedure



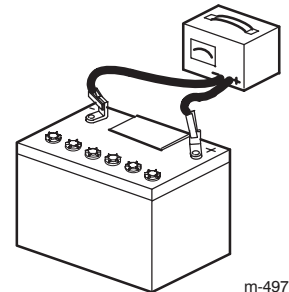
Warning



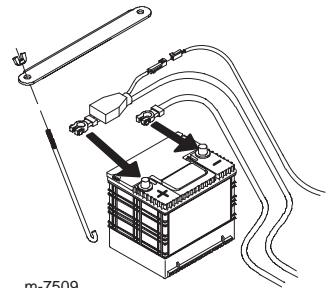
Charging the battery produces gasses that can explode and cause serious injury.

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

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



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



Step**9**

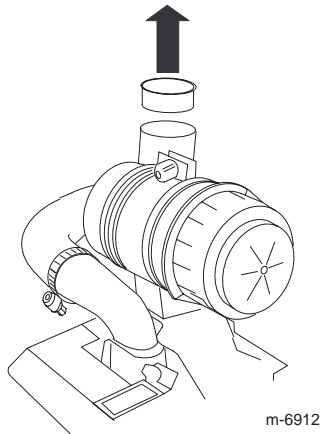
Installing the Air Cleaner Cap

Parts Needed for This Step

Qty.	Part
1	Air cleaner cap
1	Hose clamp

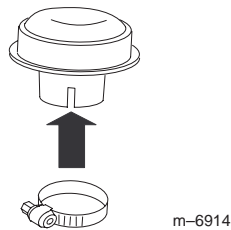
Procedure

1. Remove the plastic plug.

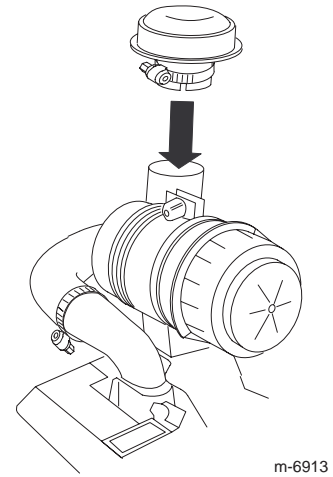


2. Remove the air cleaner cap from the machine.

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 10

Checking the Spindles for Grease

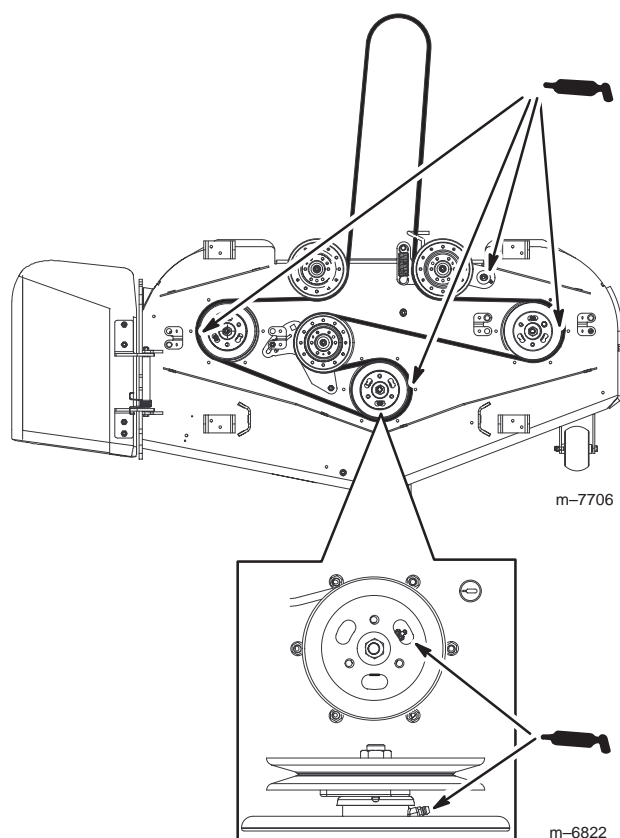
Parts Needed for This Step

Qty.	Part
1 tube	No. 2 general purpose lithium-base or molybdenum-base grease. (Purchase separately)

Procedure

Important: Before starting the engine, check the cutting unit spindles to ensure that they have grease.

1. Remove the belt covers.
2. Grease the fittings on the 3 spindle bearings and the deck idler arm.



Note: Greasing the spindles allows you to purge the old grease out by flushing new grease through. When the spindles are full of grease, any excess grease discharges at the blade retainer under the housing.

Step 11

Checking the Height-of-cut Level of the Mower

Parts Needed for This Step

None

Procedure

Refer to Leveling the Mower at Three Positions in your *Operator's Manual*.

Step 12

Preparing the Side Discharge Chute

Parts Needed for This Step

None

Procedure

Remove the plastic tie that holds the side discharge chute up and lower the chute in place.

Note: The discharge chute should pivot freely. If it does not, loosen the fasteners that secure the rubber chute to the hinge bracket and then tighten the fasteners. Check to ensure that the hinge bolt is not overtightened.

Step 13

Checking the Machine before Delivering It 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**14**

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
		<p>Show the customer where the following features are located and how they function:</p> <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:** _____