



Z500 Series Z Master[®] Mowers

Form No. 3352-977

Setup Instructions

Loose Parts

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

Note: Retain the bolts that hold the center rollbar to the packaging. These are used to install the center rollbar.

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 Flange nut, 3/8 inch Bolt, 1/2 x 3-1/4 inches Flange nut, 1/2 inch Lanyard	1 1 1 4 8 6 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	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
6	Seat Nuts (installed on the seat)	1 4	Installing the seat
7	Bulk electrolyte with 1.265 specific gravity (Purchase from a battery supply outlet.)	80 Ounces	Activating the battery
8	Air cleaner Hose clamp	1 1	Installing the air cleaner on Kohler [®] engines
9	Air cleaner Hose clamp	1 1	Installing the air cleaner on 25hp Kawasaki [®] engines
10	Number 2 general purpose lithium base or molybdenum base grease. (Purchase separately.)	1 tube	Greasing the bearings
11	No parts needed	–	Preparing the side discharge chute

Step	Description	Qty.	Use
12	No parts needed.	–	Checking the machine before delivery
13	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

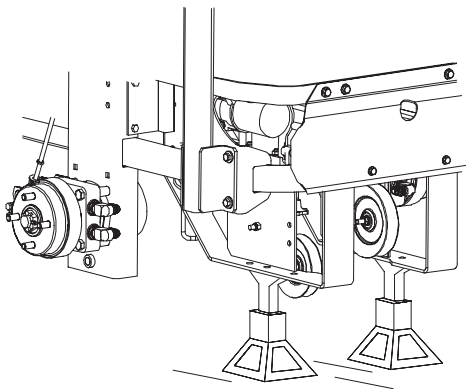
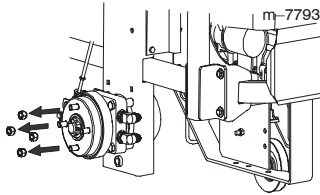
Step

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.



Step

2**Installing the Roll Over Protection System (ROPS)****Parts needed for this step:**

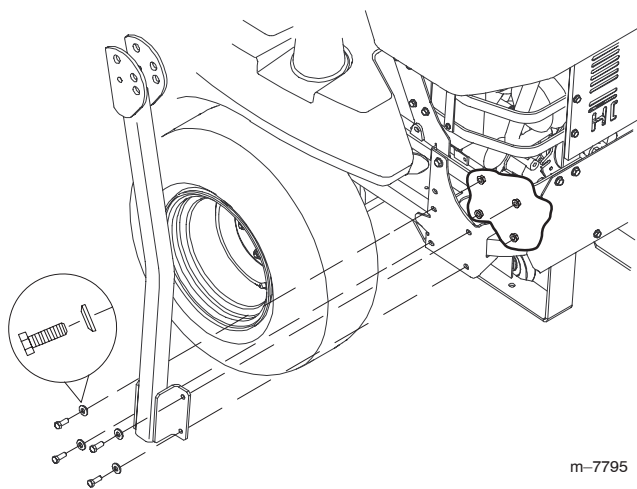
Qty.	Part
1	Roll bar, right section
1	Roll bar, left section
1	Roll bar, center section
8	Bolt, 3/8 x 1 inch
8	Curved washer
8	Flange nut, 3/8 inch
2	Bolt, 1/2 x 3-1/4 inches
2	Flange nut, 1/2 inch
2	Lanyard

Procedure

Note: If you are installing a DFS bagger while setting up a machine, install the DFS bagger frame before the ROPS.

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

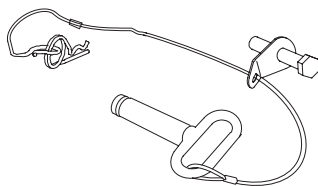
Note: The spring disk cone must be installed toward the bolt head.



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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.



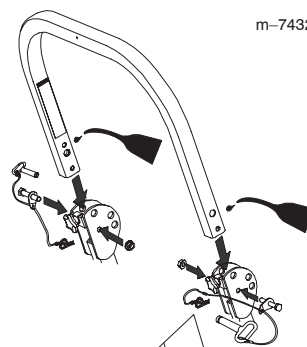
m-7410

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

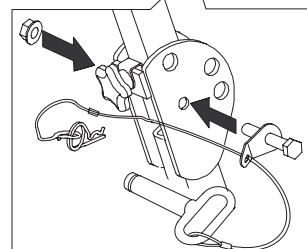
4. Loosely install the center roll bar section, using 2 bolts (1/2 x 3-1/4 inches) and 2 flange nuts (1/2 inch).

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

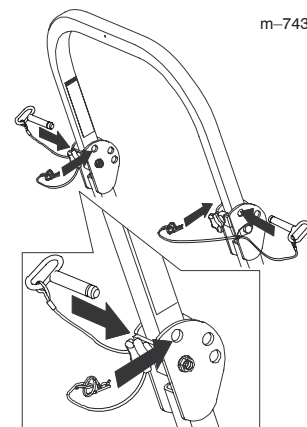
Note: Make sure the lanyard tab is installed as shown and points forward.



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

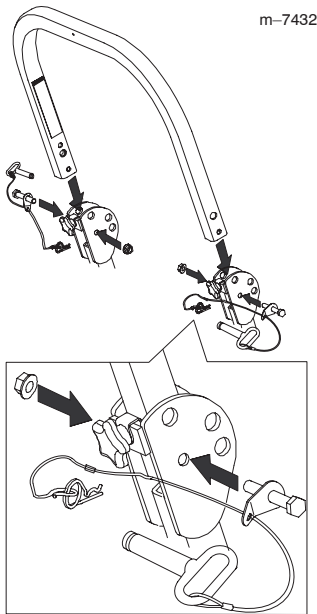


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6. Torque all lower fasteners, attached to the machine frame, to 30 ft-lb.

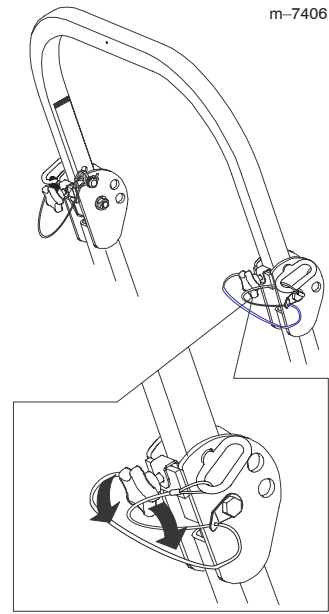
7. Tighten the center roll bar bolts (1/2 x 3-1/4 inches) so it rotates freely with some resistance.

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



m-7432

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



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Step

3

Installing the Drive Wheels

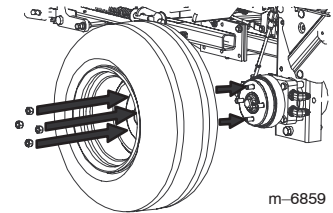
Parts needed for this step:

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).



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Step

4

Checking the Tire Pressure

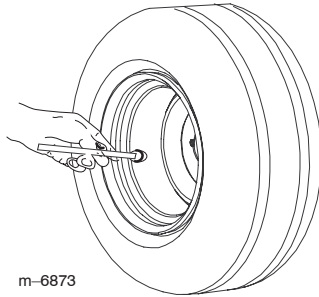
Parts needed for this step:

None

Procedure

Check the air pressure in the front and rear tires.

Pressure: 13 psi
(90 kPa)



Step

5

Installing the Motion Control Levers

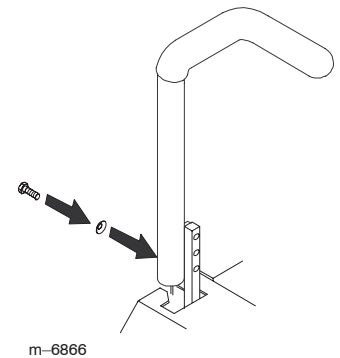
Parts needed for this step:

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)

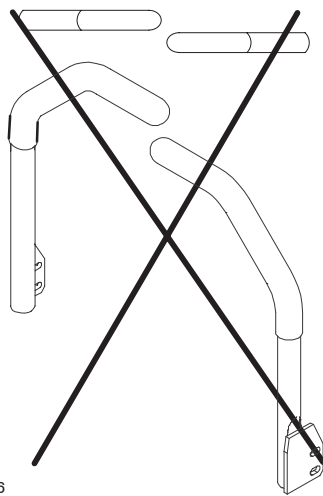
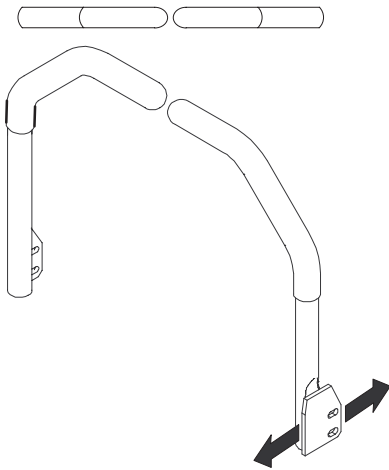
Procedure

1. Rotate the handles to the upright position.
2. Loosely install the levers on the outside, 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.



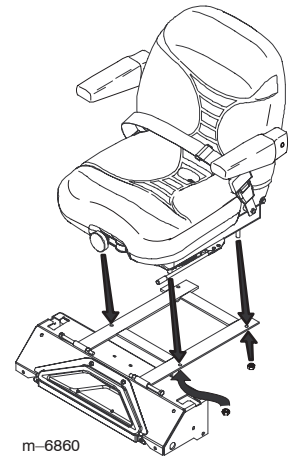
m-8006

Step**6****Installing the Seat****Parts needed for this step:**

Qty.	Part
1	Seat
4	Flange nuts (installed on the seat)

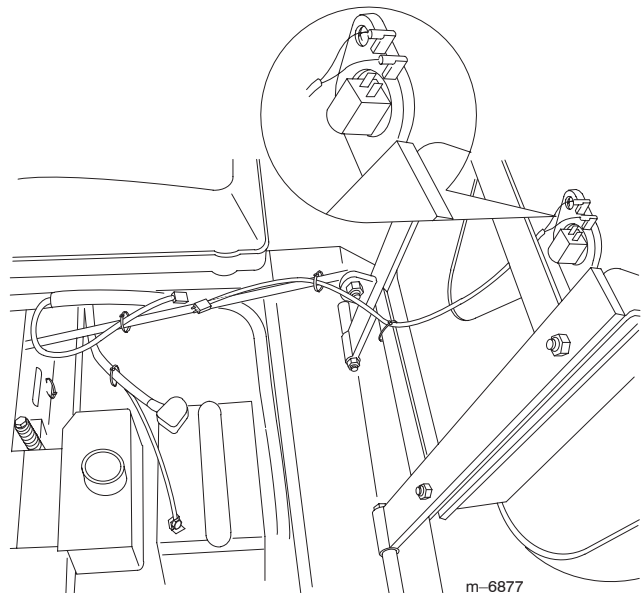
Procedure

1. Remove the seat from the crate.
2. Remove the 4 flange nuts from the studs on the bottom of the seat.
3. Position the seat into the holes in the seat frame.
4. Secure the seat with 4 flange nuts.



m-6860

5. If needed, attach the two connectors onto the seat switch.



m-6877

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



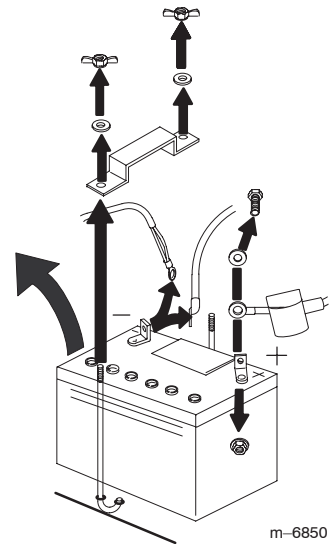
CALIFORNIA

Proposition 65 Warning

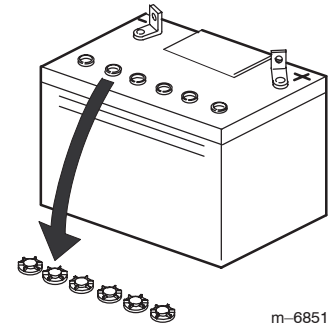
Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. *Wash hands after handling.*

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.

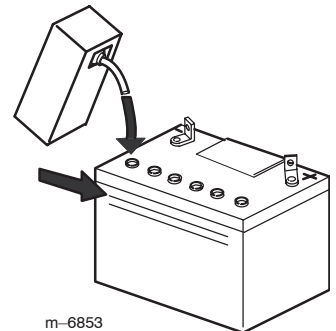


2. Clean the top of the battery and remove the vent caps.



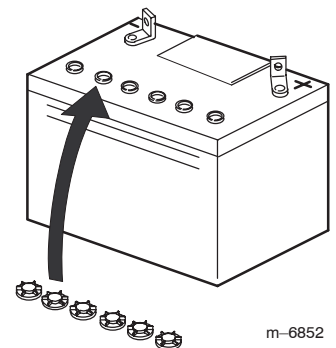
3. Slowly pour electrolyte into each battery cell until the level is up to the **upper** line on the battery case.

Important: Do not overfill the battery.



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.



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

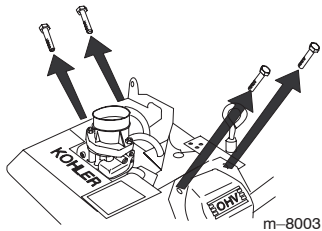
Installing the Air Cleaner on Kohler Engines

Parts needed for this step:

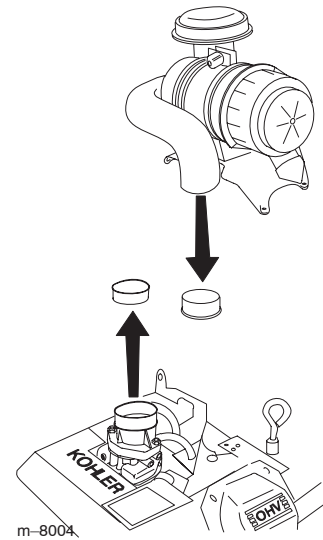
Qty.	Part
1	Air cleaner
1	Hose clamp

Procedure

1. Remove the air cleaner from the crate, keeping the bracket together with it.
2. Remove the top 2 valve cover mounting bolts from both valve covers.



3. Remove the plastic plugs.

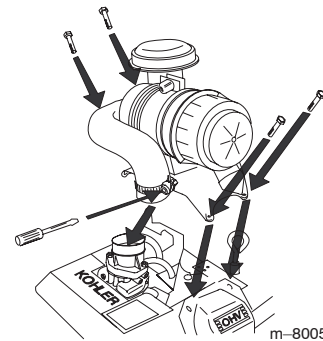


4. Align the holes in the air cleaner bracket with holes in the valve covers.

5. Secure the bracket and valve covers with the 4 bolts removed previously.

6. Torque the bolts to 70 in-lb (5 N·m).

7. Install the air cleaner hose over the air intake elbow on the engine and secure it with a hose clamp.



Step

9

Installing the Air Cleaner on 25hp Kawasaki Engines

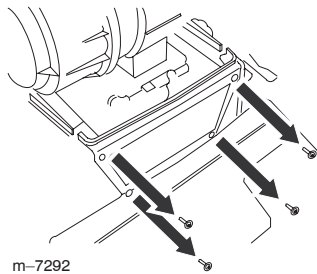
Parts needed for this step:

Qty.	Part
1	Air cleaner
1	Hose clamp

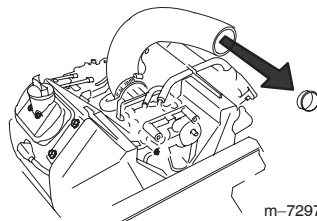
Procedure

1. Remove the air cleaner from the crate, keeping the bracket together with it.

2. Remove the 4 screws holding the front plastic cover on the front of the engine.

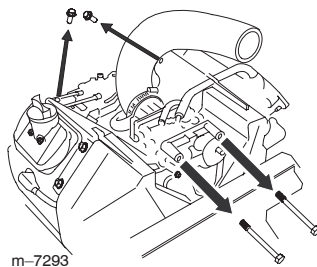


3. Remove the plastic plug.

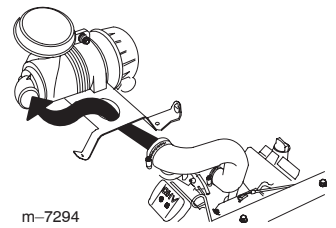


4. Remove the 2 bolts from the back of the engine.

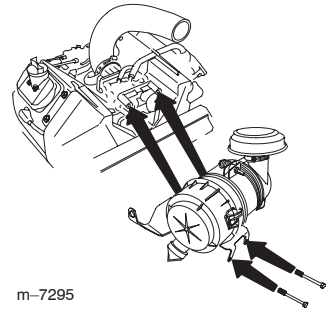
5. Remove the 2 long bolts that run through the carburetor.



6. Install the hose into the air cleaner base.



7. Align the holes in the air cleaner bracket with holes in the valve covers.

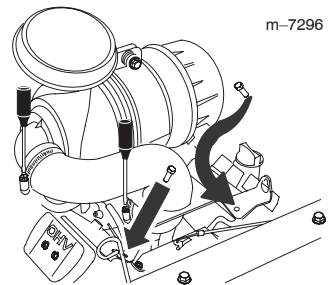


8. Install the long carburetor bolts into the air cleaner base and into the carburetor.

9. Install the hose clamp onto the hose and install the hose to the air cleaner.

10. Install the bolts into the back of the air cleaner bracket and into the motor.

11. Tighten the hose clamps.



Step

10

Checking the Spindles for Grease

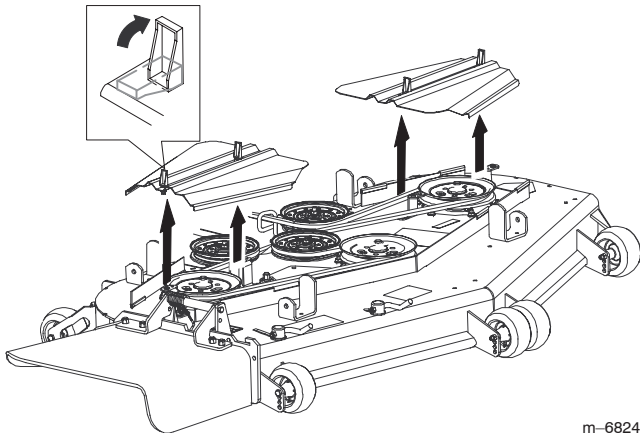
Parts needed for this step:

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

Procedure

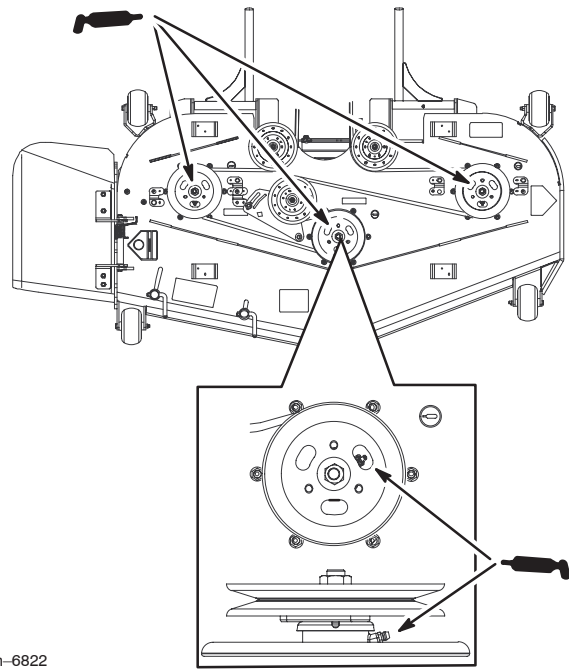
Important: Check the **cutting unit spindles to make sure they are greased** before starting the engine.

1. Remove the belt covers.



m-6824

2. Grease the fittings on the three spindle bearings. Add grease until it comes out of the lower seals.



m-6822

3. Install the belt covers.

Step

11

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

12

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 in the radiator.
	Check the adjustment of the parking brake.
	Ensure that the machine tracks correctly; refer to the <i>Operator's Manual</i> for the adjustment procedure.
	Check the safety interlock system; refer to the <i>Operator's Manual</i> .
	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**13**

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 (Liquid Cooled Only) • Hydraulic fluid reservoir • Hydraulic filter • Battery • Ignition Switch • Throttle Lever • Choke (Not on an EFI machine) • Power Take Off Switch (PTO) • Motion Control Levers • Parking Brake • Mower Height-of-Cut Lever • Lift Assist Lever • Z Stand® • Adjustable Seat • Hydraulic Bypass • Rollover Protection System (ROPS) • Flow Baffle
		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:** _____

