Form No. 3354-559 Rev A

Z500 Series Z Master® Gasoline Engine Mowers

Model No. All Z500 Series Gasoline Engine Mower Models

Setup Instructions

Loose Parts

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

Step	Description	Qty.	Use
1	No parts required	–	Remove parts from the crate.
2	No parts required	–	Check the tire pressure.
3	Rear wheels	2	Install the drive wheels.
4	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 inch) Flange nut, (1/2 inch)	1 1 1 8 8 8 2 2	Install the Rollover Protection System (ROPS).
5	Control lever, right Control lever, left Bolt (3/8 x 1 inch) (2 assembled) Curved washer (3/8 inch) (2 assembled)	1 1 4 4	Install the motion control levers.
6	Seat Flange nuts (installed on the seat)	1 4	Install the seat.
7	No parts required	–	Charge the battery.
8	Air cleaner Hose Clamp	1 1	Install the air cleaner (Models with Kohler engines only).
9	Number 2 general purpose lithium base or molybdenum base grease. (Purchase separately.)	1 tube	Check the spindles for grease.
10	No parts required	–	Prepare the side discharge chute.
11	No parts required	–	Check the engine oil level.
12	No parts required	–	Add fuel to the machine.
13	No parts required	–	Check the machine before delivery to the customer.

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Step	Description	Qty.	Use
14	Operator's Manual	1	Delivering the machine to the customer.
	Parts Catalog	1	
	Engine Owner's Manual	1	
	Registration Card	1	
	Safety Video	1	
	Key	2	

Step 1

Removing Parts from the Crate

No Parts Required

Procedure

Remove the tires and the parts for the ROPS from the shipping crate.

Step 2

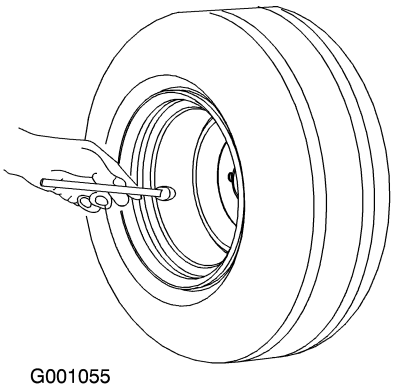
Checking the Tire Pressure

No Parts Required

Procedure

Check the air pressure in the front and rear tires.

Pressure: 13 psi (90 kPa)



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Figure 1

Step 3

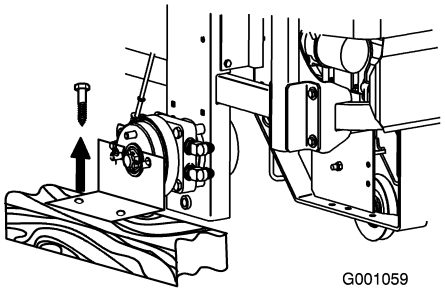
Raising the Machine Up and Installing the Drive Wheels

Parts needed for this step:

2	Rear wheels

Procedure

1. Remove the screws holding the right angle retaining plate to the crate (Figure 2).



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Figure 2

2. Raise the back of the machine up and support it with jack-stands (Figure 3).

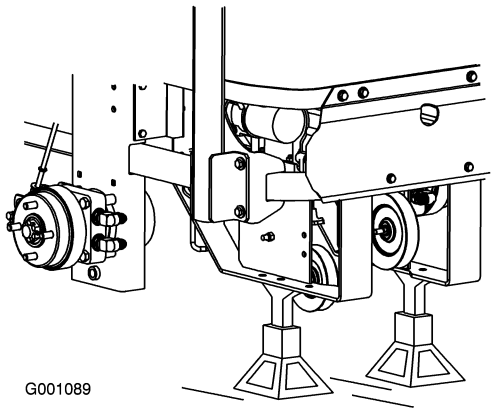


Figure 3

3. Remove the wheel nuts from both sides of the vehicle and remove the right angle retaining plate (Figure 4). Discard the screws and retaining plate.

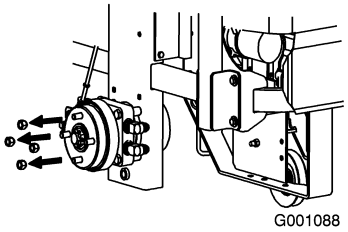


Figure 4

4. Mount the wheels with the valve stem to the outside and secure them with the wheel nuts previously removed (Figure 5).

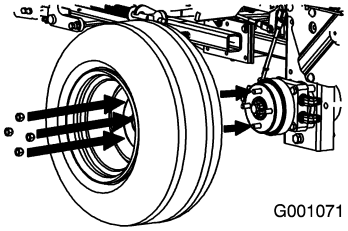


Figure 5

5. Torque the wheel nuts to 95 ft-lb (128 N·m).
6. Remove the jack-stands.

Step

4

Installing the Roll Over Protection System

Parts needed for this step:

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 inch)
2	Flange nut, (1/2 inch)

Procedure

1. Loosely install the right and left roll bar section to the frame, with 8 bolts (3/8 x 1 inch), 8 curved washers, and 8 flange nuts (3/8 inch) (Figure 6).

   Note: The curve washer cone must be installed toward the bolt head.

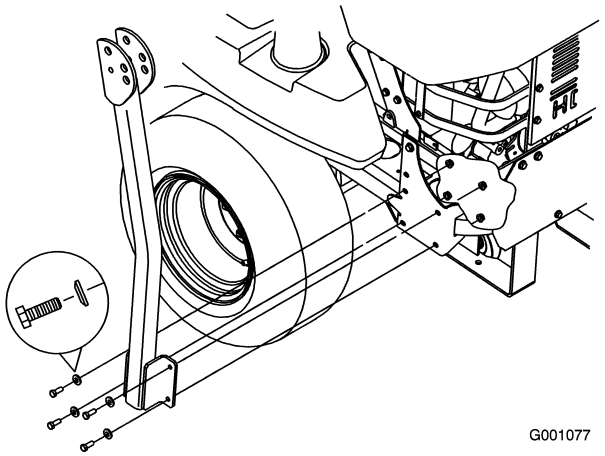


Figure 6

2. Install the lanyard clips onto the long bolts (1/2 x 3-1/4 inch) (Figure 7).

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

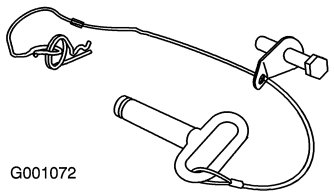


Figure 7

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 inch) and 2 flange nuts (1/2 inch) (Figure 8).

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

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

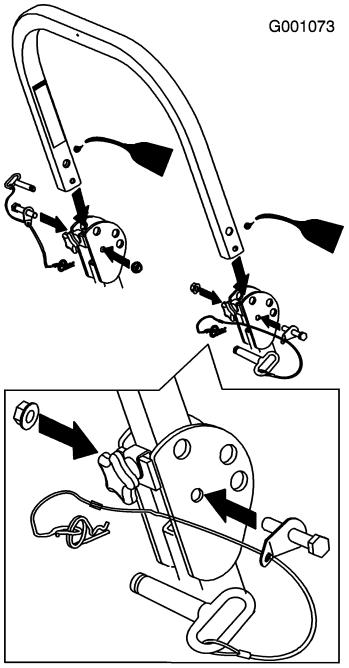


Figure 8

5. Raise the roll bar into the upright position and secure it with the pins and hairpin cotter pins fastened to the lanyards (Figure 9).

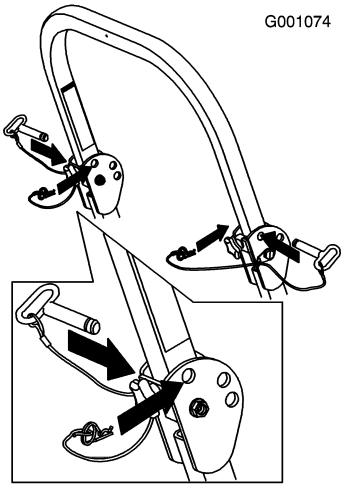


Figure 9

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 inch) so it rotates freely with some resistance (Figure 10).

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

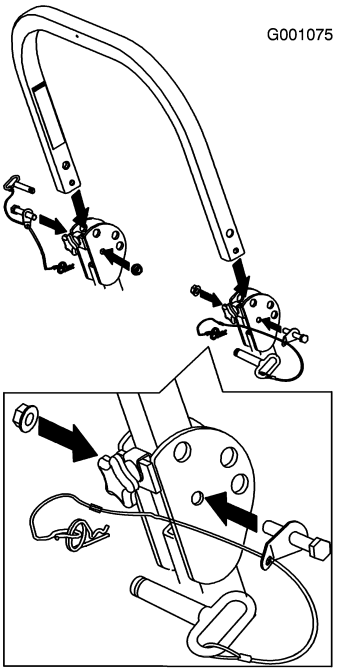


Figure 10

8. Tighten the front knobs against the center roll bar ends (Figure 11).

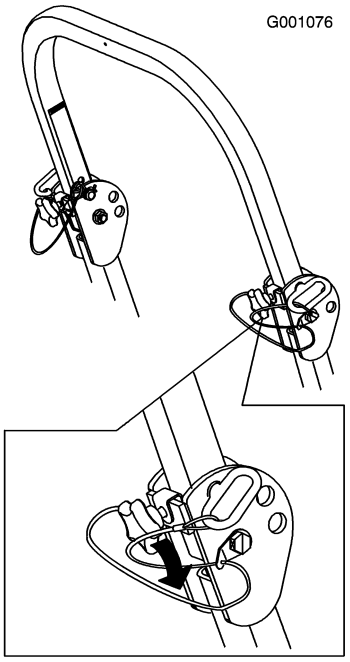


Figure 11

Step **5**

Installing the Motion Control Levers

Parts needed for this step:

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 (Figure 12).

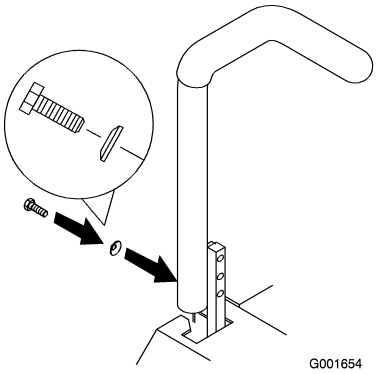


Figure 12

2. Loosely install the levers on the outside, using 4 bolts and curved washers (Figure 12).

   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 (Figure 13).

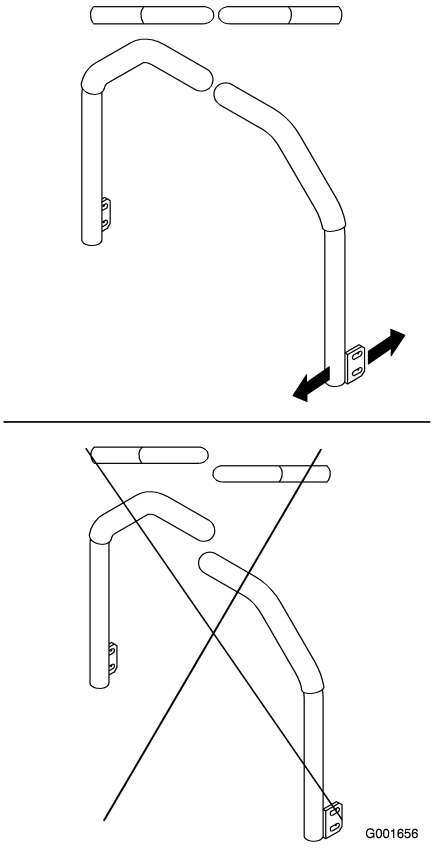


Figure 13

Step
6

Installing the Seat

Parts needed for this step:

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 (Figure 14).

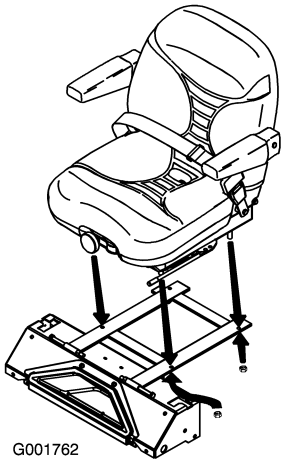


Figure 14

4. Secure the seat with 4 flange nuts (Figure 14).
5. If needed, attach the two connectors onto the seat switch (Figure 15).

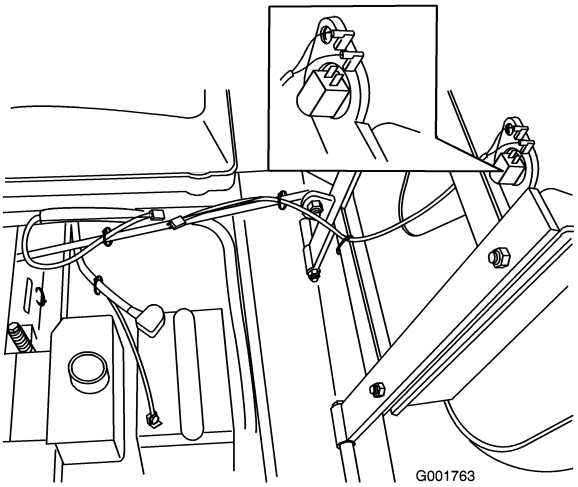


Figure 15

Step
7

Charging the Battery

No Parts Required

Procedure

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.

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

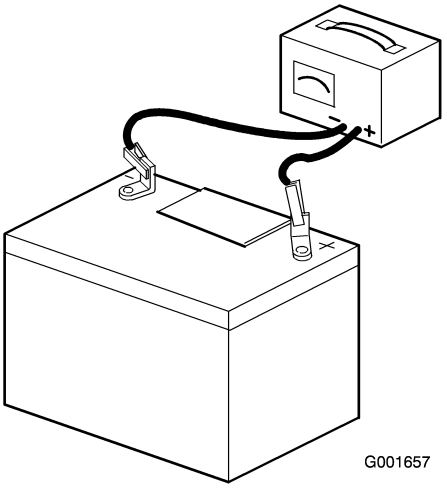


Figure 16

Step **8**

Installing the Air Cleaner on Kohler Engines

Parts needed for this step:

1	Air cleaner
1	Hose Clamp

Procedure

Note: If the machine you are setting up does not have a Kohler engine, skip this 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 (Figure 17).

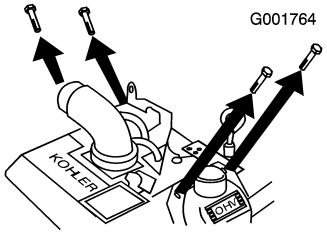


Figure 17

3. Remove the plastic plugs (Figure 18).

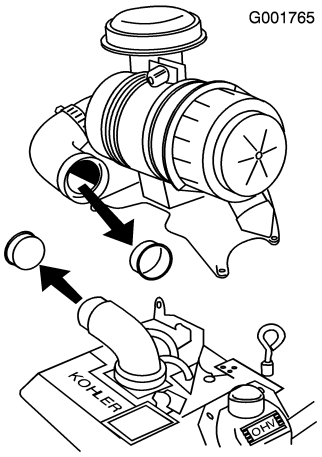


Figure 18

4. Align the holes in the air cleaner bracket with holes in the valve covers (Figure 19).

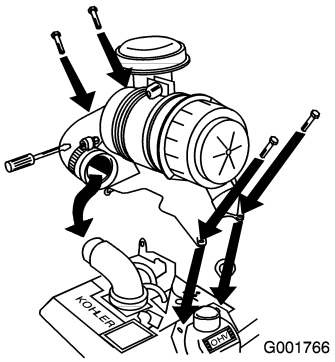


Figure 19

5. Secure the bracket and valve covers with the 4 bolts removed previously (Figure 19).
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 (Figure 19).

Step

9

Checking the Spindles for Grease

Parts needed for this step:

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

Procedure

1. Remove the belt covers on domestic machines (Figure 20).

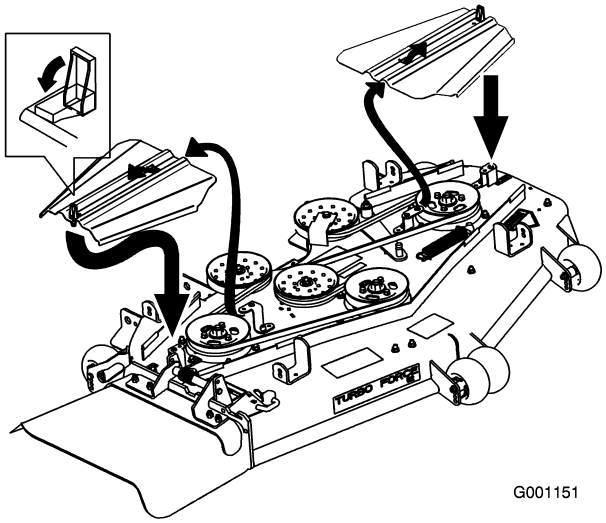


Figure 20

2. Remove the belt covers and bolts on international machines (Figure 21).

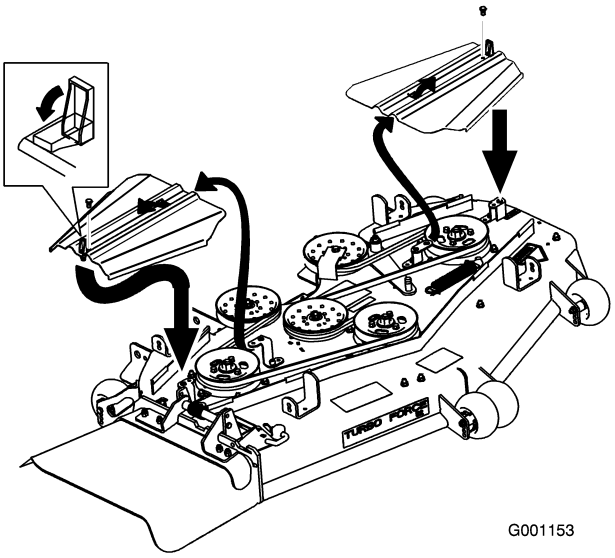


Figure 21

3. Check the tensioning arm for grease (Figure 22).
4. Check the grease for the three spindle bearings (Figure 22). If needed, add grease until it comes out of the lower seals.

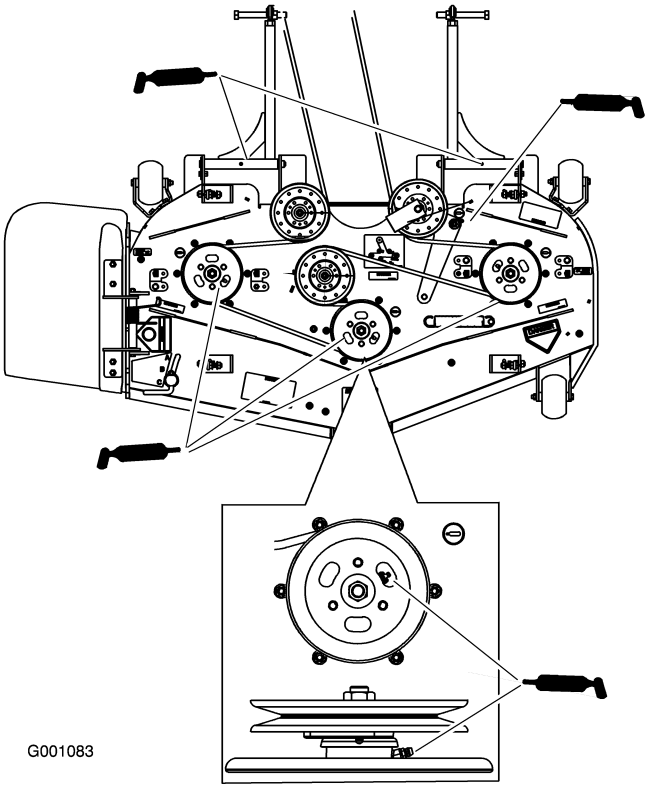


Figure 22

5. Install the belt covers.

Step
10

Preparing the Side Discharge Chute

No Parts Required

Procedure

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

Step
11

Checking the Engine Oil Level

No Parts Required

Procedure

Before you start the engine and use the machine, check the oil level in the engine crankcase; refer to Checking the Engine Oil Level in the *Operator's Manual*.

Step
12

Adding Fuel to the Machine

No Parts Required

Procedure

Add gasoline to the machine before starting it. Refer to your *Operator's Manual.* for the correct fuel and procedure.

Step
13

Checking the Machine Before Delivery to the Customer

No Parts Required

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.
	Check ROPS is secure.
	On liquid cooled machines, check the level of the coolant in the radiator and overflow bottle.
	Check the adjustment of the parking brake.
	Ensure that the machine tracks correctly; refer to the *Operator's Manual* for the adjustment procedure.
	Check the safety interlock system; refer to the *Operator's Manual*.
	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:

1	*Operator's Manual*
1	*Parts Catalog*
1	*Engine Owner's Manual*
1	Registration Card
1	Safety Video
2	Key

Procedure

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

Model No. _____ **Serial No.** _____

Dealer Initial	Customer Initial	Check Procedure
		Show the customer where the following features are located and how they function:
		• Fuel tank caps
		• Oil fill cap/Oil dipstick
		• Spark plug(s)
		• Engine oil filter
		• Engine oil drain
		• Fuel filters
		• Air filter
		• Radiator coolant (if applicable)
		• Hydraulic fluid reservoir
		• Hydraulic filter
		• Battery
		• Ignition switch
		• Throttle lever
		• Choke (if applicable)
		• Power take off switch (PTO)
		• Motion control levers
		• Parking brake
		• Mower height-of-cut
		• Lift assist lever (if applicable)

Dealer Initial	Customer Initial	Check Procedure
		• Z Stand® (if applicable) • Adjustable seat • Hydraulic bypass valves • Rollover Protection System (ROPS) • Mower deck 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 *Operator's Manual.*
		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 *Operator's Manual*, *Parts Catalog*, *Engine Owner's Manual*, *Set Up Instructions*, 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 provide below and keep a copy of this page for dealer records.

Signature: _____ **Date:** _____

Signature: _____ **Date:** _____