



Z Master® 8000 Series Riding Mower

with 42in or 48in Direct-Collect Cutting Unit

Model No. 74310—Serial No. 314000001 and Up

Model No. 74311—Serial No. 314000001 and Up

Model No. 74312—Serial No. 314000001 and Up

Setup Instructions

⚠ WARNING

CALIFORNIA

Proposition 65 Warning

This product contains a chemical or chemicals known to the State of California to cause cancer, birth defects, or reproductive harm.

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

Setup

Loose Parts

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

Procedure	Description	Qty.	Use
1	No parts required	—	Open the crate.
2	Rear caster wheel Bolt (1/2 x 13 inches) Locknut (1/2 inch)	1 1 1	Remove the machine from the crate.
3	No parts required	—	Check the tire pressure.
4	No parts required	—	Check the engine-oil level.
5	No parts required	—	Check the wheel lug nut torque.
6	Wing nut (1/4 inch)	2	Install the battery.
7	No parts required	—	Charge the battery.
8	No parts required	—	Check the hydraulic oil.
9	Number 2 general-purpose lithium-base or molybdenum-base grease. (Purchase separately.)	1 tube	Check the machine for grease.



Procedure	Description	Qty.	Use
10	No parts required	–	Check the machine before delivery to the customer (All machines).
11	Operator's Manual Engine Owner's Manual Registration card Operator-training material Key	1 1 1 1 2	Delivering the machine to the customer (All machines).

1

Opening the Crate

No Parts Required

Procedure

1. Lower the ends of the crate.
2. Remove the retaining straps.
3. Remove the plastic ties around the hopper handles.

2

Removing the Machine from the Crate

Parts needed for this procedure:

1	Rear caster wheel
1	Bolt (1/2 x 13 inches)
1	Locknut (1/2 inch)

Driving the Machine Off the Crate

⚠ CAUTION

The mower deck is shipped in the Up position, but not latched. Removing shipping reinforcements without supporting the front of the deck will cause the deck to drop which may result in injury or property damage.

Always securely support the front of the deck while setting up the unit.

Note: Ensure the discharge tube does not catch on the crate when driving the machine off the crate (Figure 4).

1. Remove the rear caster wheel assembly from inside the hopper.

2. Remove the bolt holding the rear-frame support to the frame (Figure 1).

⚠ CAUTION

Raising the mower deck for service or maintenance relying solely on mechanical or hydraulic jacks could be dangerous. The mechanical or hydraulic jacks may not be enough support or may malfunction allowing the unit to fall, which could cause injury.

Do Not rely solely on mechanical or hydraulic jacks for support. Use adequate jack stands or equivalent support.

3. Raise the rear of the unit approximately 25.4 to 30.5 cm (10 to 12 inches) and support it with jack stands or equivalent support (Figure 1).

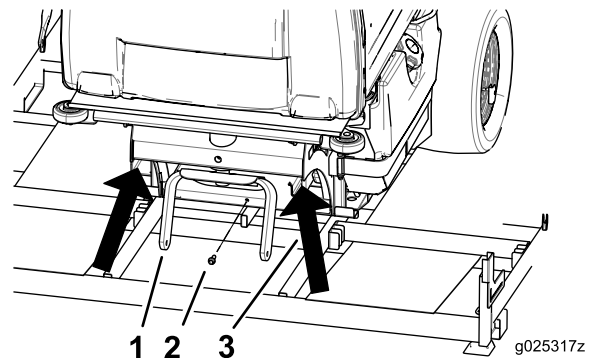


Figure 1

1. Rear caster fork
2. Bolt holding the rear-frame support
3. Place the jack stands at the arrows
4. Remove and discard the rear-frame support, located behind the drive tires, from the machine.
5. Install the rear caster wheel to the rear caster fork with a bolt (1/2 x 13 inches) and locknut (1/2 inch) (Figure 2).
6. Torque the bolt to 90.8 to 112.5 N-m (67 to 83 ft-lb).

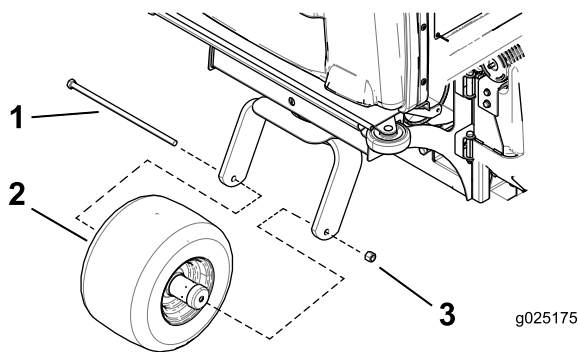


Figure 2

1. Bolt (1/2 x 13 inches)
2. Rear caster wheel
3. Locknut (1/2 inch)

7. Carefully remove the jack stands and lower the machine.

Important: Ensure the mower deck is in the upright position before raising the front of the machine.

8. Raise the front of the machine and support it with jack stands or an equivalent support (Figure 3).

Note: Lift the deck just enough to remove the deck support and to insert other supports into the crate opening.

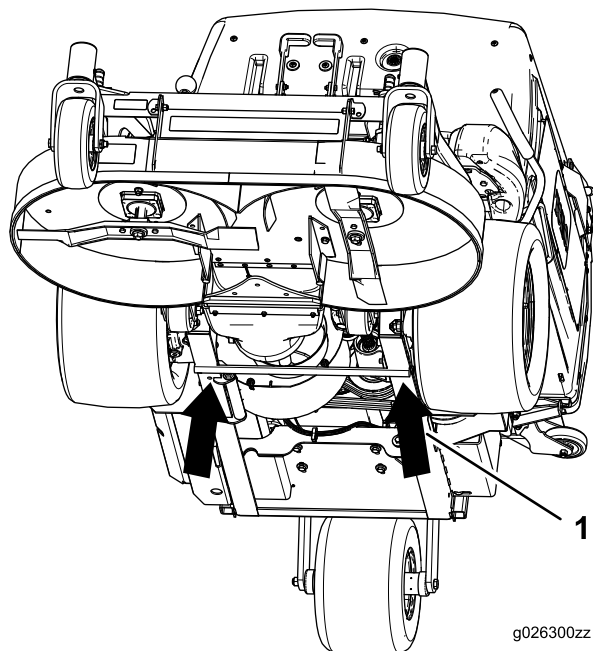


Figure 3

1. Place jack stands at the arrows

9. Remove and discard the deck support from under the rear deck rollers.

Note: Before the deck is lowered into the operating position (steps 10 through 14), the crate opening under the deck must be fully covered.

10. Place a plywood sheet (58.4 cm x 81.3 cm (23 inches x 32 inches)), or similar support, over the opening to

provide support for the deck when the unit is driven off of the crate (Figure 4).

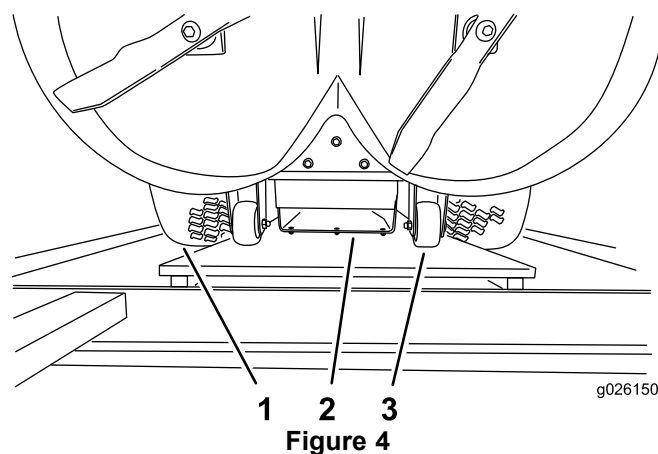


Figure 4

1. Drive tire
2. Discharge tube
3. Plywood sheet under the rear deck rollers

11. Carefully remove the jack stands and lower the machine.
12. While supporting the mower deck, remove and discard the two side struts, mounting brackets, and their hardware on both sides of the seat (Figure 5).
13. Remove and discard the strut located between the front deck support pins (Figure 5).

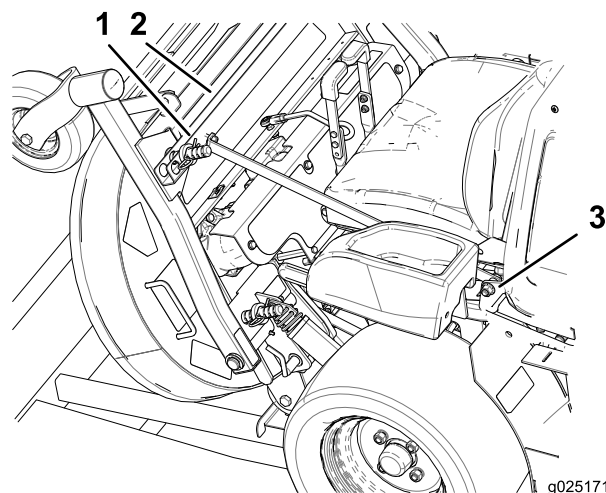


Figure 5

1. Deck support pin
2. Strut between deck support pins
3. Side strut hardware

14. With the deck locking pins pulled out in the unlock position, carefully lower the deck (Figure 6).

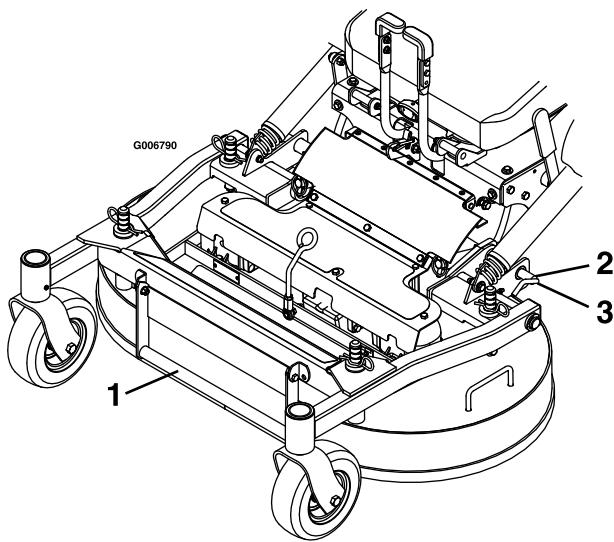


Figure 6

1. Deck lift handle
2. Rotate the deck locking pin toward the rear and pull outward to unlock
3. Push the deck locking pin in and rotate toward the front to lock

15. Push the deck-locking pins inward and rotate them forward to securely lock the deck in the lowered position.
16. Raise the mower deck to the highest height-of-cut position.
17. Install pieces of wood, to form a ramp, in front of the rear tire (Figure 7).

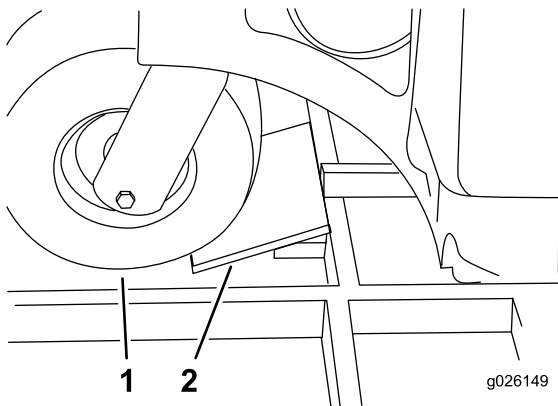


Figure 7

1. Rear tire
2. Wood ramp

18. To form a ramp, place 2 long pieces of wood (2 x 4's) in front of each front-caster tire (Figure 8).

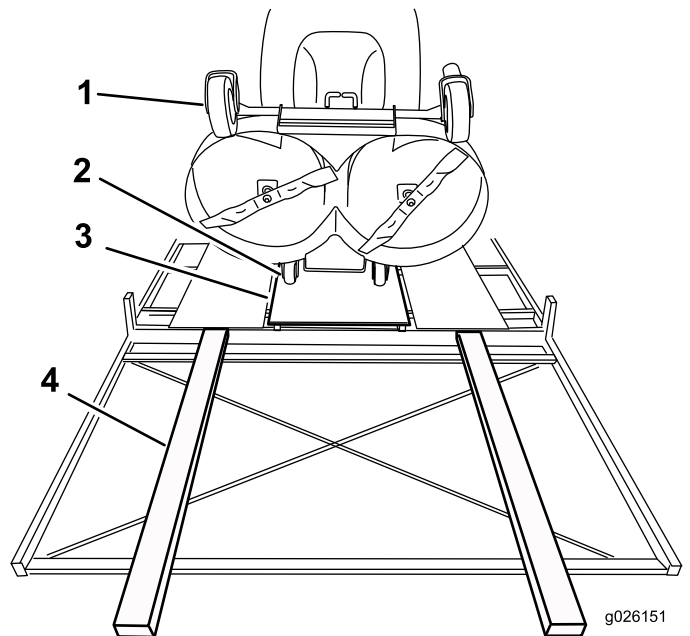


Figure 8

1. Front caster
2. Rear deck rollers
3. Plywood between drive wheels
4. Wood ramp for front casters (2 x 4's)

Note: Ensure the discharge tube does not catch on the crate when driving the machine off the crate (Figure 4).

⚠ WARNING

Operating mower without locking pins securely latched can result in the mower deck folding up unexpectedly. The mower deck folding up unexpectedly can cause serious injury.

Always operate mower with locking pins securely latched.

19. Drive the machine off the crate.

Removing the Machine from the Crate Using a Hoist

⚠ CAUTION

The mower deck is shipped in the Up position, but not latched. Removing shipping reinforcements without supporting the front of the deck will cause the deck to drop which may result in injury or property damage.

Always securely support the front of the deck while setting up the unit.

1. Remove the rear caster wheel assembly from inside the hopper.

2. Remove the bolt holding the rear frame to the crate (Figure 11).
 3. Lift the front of the hopper up.
- Note:** Use care when hoisting the machine to prevent damage to the hopper.
4. Using the hoist, lift the machine at the location shown in Figure 9.

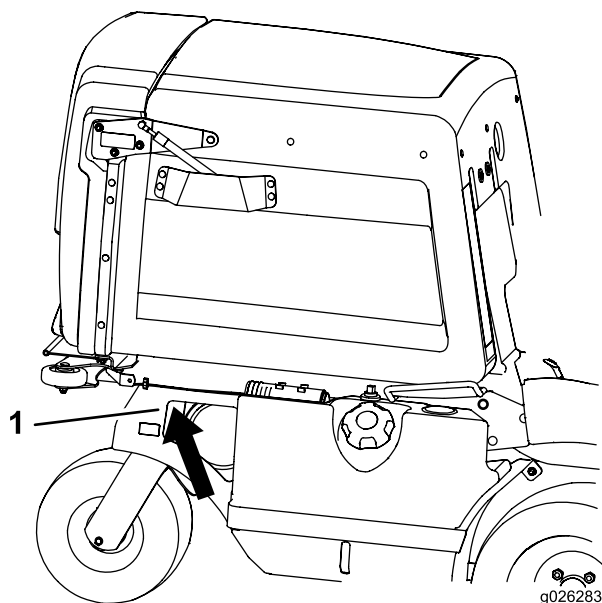


Figure 9

1. With the hopper up, lift the machine on each side here

⚠ CAUTION

Raising the mower deck for service or maintenance relying solely on mechanical or hydraulic jacks could be dangerous. The mechanical or hydraulic jacks may not be enough support or may malfunction allowing the unit to fall, which could cause injury.

Do Not rely solely on mechanical or hydraulic jacks for support. Use adequate jack stands or equivalent support.

5. Raise the rear of the unit approximately 25.4 to 30.5 cm (10 to 12 inches) and support it with jack stands or equivalent support (Figure 10).

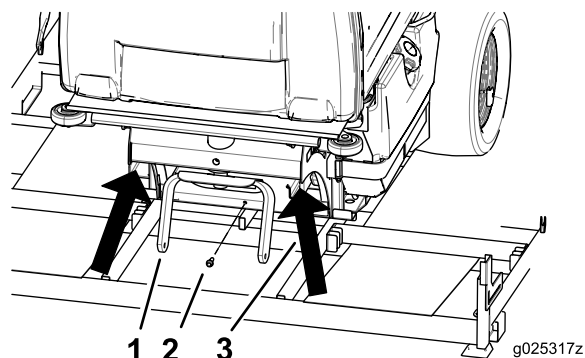


Figure 10

1. Rear caster fork
2. Bolt holding rear frame
3. Place jack stands at the arrows

6. Remove and discard the rear-frame support and its hardware, located behind the drive tires.
7. Install the rear caster wheel to the rear caster fork with a bolt (1/2 x 13 inches) and locknut (1/2 inch) (Figure 11).
8. Torque the bolt to 90.8 to 112.5 N-m (67 to 83 ft-lb).

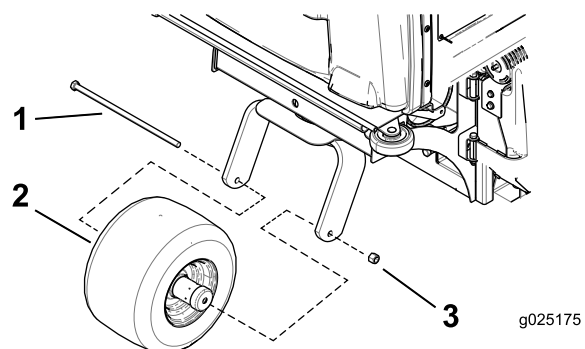


Figure 11

1. Bolt (1/2 x 13 inches)
2. Rear caster wheel
3. Locknut (1/2 inch)

9. Carefully remove the jack stands and lower the machine.
10. Lower the front of the hopper.
11. Tilt the seat up.
12. Place the hoist hooks on each side of the seat as shown in Figure 12.

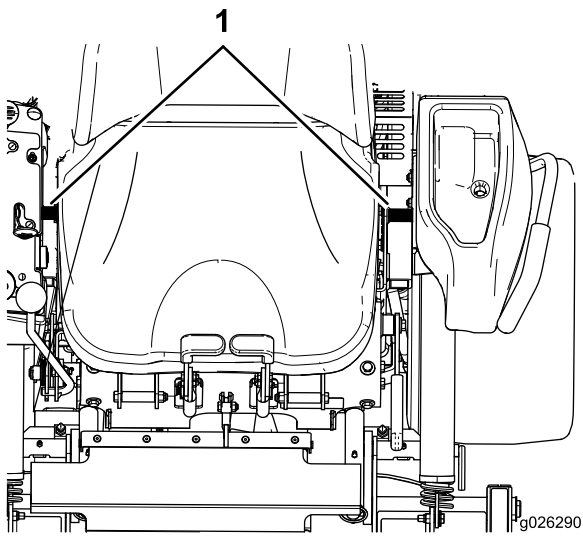


Figure 12

1. Lift points on each side of the seat

Important: Ensure the mower deck is in the upright position before raising the front of the machine.

13. Raise up the front of the machine, just enough to remove and discard the deck support from under the rear deck rollers.
14. Lower the machine to the ground.
15. Lift the front of the hopper up.
16. Using the hoist, lift the machine at the locations shown in Figure 9 and Figure 12.
17. Remove the crate from under the machine.
18. Lower the machine to the ground.
19. While supporting the mower deck, remove and discard the two side struts, mounting brackets, and their hardware on both sides of the seat (Figure 13).
20. Remove and discard the strut located between the front deck support pins (Figure 13).

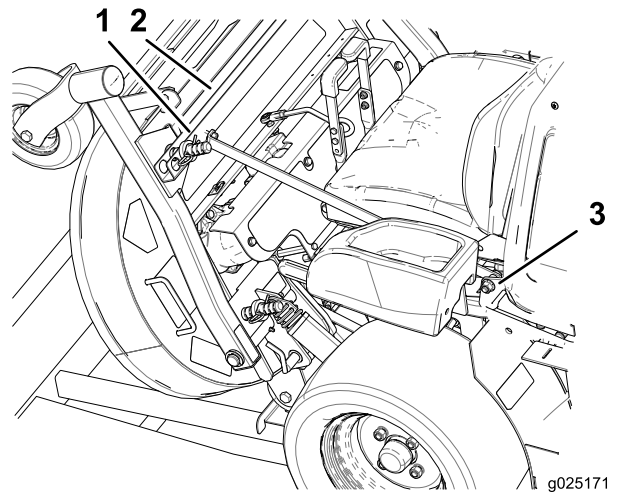


Figure 13

1. Deck support pin
2. Strut between the deck-support pins
3. Side-strut hardware

21. With the deck locking pins pulled out in the unlock position, carefully lower the deck (Figure 14).

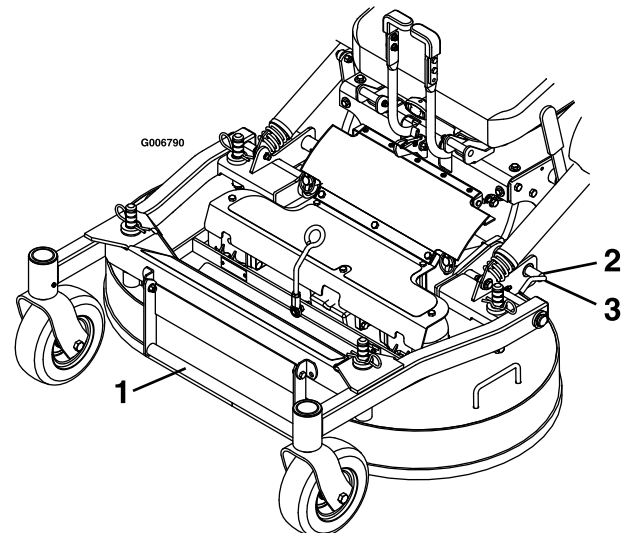


Figure 14

1. Deck lift handle
2. Rotate the deck locking pin toward the rear and pull outward to unlock
3. Push the deck locking pin in and rotate toward the front to lock

22. Push the deck locking pins inward and rotate them forward to securely lock the deck in the lowered position.

⚠ WARNING

Operating mower without locking pins securely latched can result in the mower deck folding up unexpectedly. The mower deck folding up unexpectedly can cause serious injury.

Always operate mower with locking pins securely latched.

3

Checking the Tire Pressure

No Parts Required

Procedure

Pressure: 103 kPa (15 psi)

Note: Check the tire pressure before starting the machine. Refer to your *Operator's Manual* for the correct tire type, correct air pressure needed, and procedure.

4

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 Servicing the Engine-Oil Level in the *Operator's Manual*.

5

Checking the Wheel Lug Nut Torque

No Parts Required

Procedure

Before you start the engine and use the machine, check the wheel lug nut torque; refer to Checking the Wheel Lug Nuts in the *Operator's Manual*

6

Installing the Battery

Parts needed for this procedure:

2	Wing nut (1/4 inch)
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Procedure

⚠ 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.

⚠ CAUTION

Battery electrolyte contains sulfuric acid, which is poisonous and can cause severe burns. Swallowing electrolyte can be fatal or if it touches skin can cause severe burns.

- Wear safety glasses to shield eyes, and rubber gloves to protect skin and clothing when handling electrolyte.
- Do Not swallow electrolyte.
- In the event of an accident, flush with water and call a doctor immediately.

⚠ WARNING

If the ignition is in the On position there is potential for sparks and engagement of components. Sparks could cause an explosion or moving parts could accidentally engage causing personal injury.

Be sure ignition switch is in the Off position before charging the battery.

Locate the battery-mounting hardware and install the negative battery cable. Refer to Installing the Battery in the *Operator's Manual*.

Note: If the positive cable is also disconnected, connect the positive (red) cable to the positive battery terminal first, then the negative (black) cable to the negative battery terminal. Slip insulator boot over the positive terminal.

Note: If time does not permit charging the battery, or if charging equipment is not available, connect the negative battery cable and run the vehicle continuously for 20 to 30 minutes to sufficiently charge the battery.

7

Charging the Battery

No Parts Required

Procedure

⚠ 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.

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

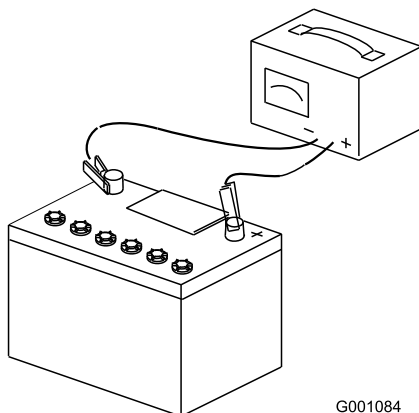


Figure 15

8

Checking the Hydraulic Oil

No Parts Required

Procedure

The machine is shipped with hydraulic oil in the reservoir.

1. Check and ensure the reservoir has hydraulic oil.
2. If needed add Toro HYPR-OIL™ 500 hydraulic oil.
3. Run the machine for approximately 15 minutes to allow any extra air to purge out of the hydraulic system.
4. Wait until the unit cools before checking the hydraulic oil.
5. Tilt the hopper up.
6. Remove the hydraulic reservoir cap.
7. Wipe the dipstick clean and insert the cap back into the hydro.
8. Lightly tighten the cap.
9. Remove the cap again and check the level of the oil on the dipstick (Figure 16).
10. Check the hydraulic reservoir and if necessary fill the reservoir to the appropriate level with Toro HYPR-OIL™ 500 hydraulic oil.

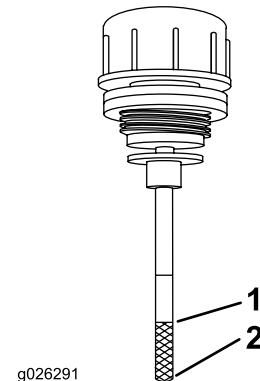


Figure 16

1. Full
2. Add

11. If the dipstick oil level is at the Add mark, add hydraulic oil. Do not overfill.
12. Replace hydraulic reservoir cap and tighten until snug. Do not overtighten.

9

Checking the Machine for Grease

Parts needed for this procedure:

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

Before you use the machine, check the machine for grease; refer to Lubrication in the *Operator's Manual*.

10

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 machine.
	Check the mower deck gearboxes for oil.
	Check the engine-oil level.
	Check the hydraulic-fluid level.
	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 that 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:** _____

11

Delivering the Machine to the Customer

Parts needed for this procedure:

1	<i>Operator's Manual</i>
1	<i>Engine Owner's Manual</i>
1	Registration card
1	Operator-training material
2	Key

Procedure

At delivery, fill in the model and serial number, 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
		• Oil fill cap/Oil dipstick
		• Spark plug(s)
		• Engine-oil filter
		• Engine-oil drain
		• Fuel gauge, valve and hose
		• Air filter
		• Hydraulic-fluid reservoir
		• Hydraulic filter
		• Battery
		• Ignition switch
		• Throttle lever
		• Choke (if applicable)
		• Power take off (PTO)
		• Motion-control levers
		• Parking brake
		• Height-of-cut
		• Adjustable seat
		• Hydraulic-bypass valves
		• Mower deck baffle
		Refer to the <i>Operator's Manual</i> 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>Engine Owner's Manual</i> , <i>Set Up Instructions</i> , and operator training material.
		Make sure the customer knows the <i>Parts Catalog</i> is available at www.Toro.com .
		Assist the customer in loading the machine.

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. Also, the dealer must remind the customer to use a full-width trailer ramp to load the machine.

Signature: _____ **Date:** _____

Signature: _____ **Date:** _____