



Power Max® 826 OXE Snowthrower

Model No. 37797—Serial No. 400000000 and Up

Operator's Manual

Introduction

This machine is intended to be used by residential homeowners. It is designed primarily for removing snow from paved surfaces, such as driveways and sidewalks, and other surfaces for traffic on residential or commercial properties. It is not designed for removing materials other than snow.

Read this information carefully to learn how to operate and maintain your product properly and to avoid injury and product damage. You are responsible for operating the product properly and safely.

You may contact Toro directly at www.Toro.com for product safety and operation training materials, accessory information, help finding a dealer, or to register your product.

Whenever you need service, genuine Toro parts, or additional information, contact an Authorized Service Dealer or Toro Customer Service and have the model and serial numbers of your product ready. [Figure 1](#) identifies the location of the model and serial numbers on the machine. Write the numbers in the space provided.

Important: With your smartphone or tablet, scan the QR code on the serial number decal to access warranty, parts, and other product information.

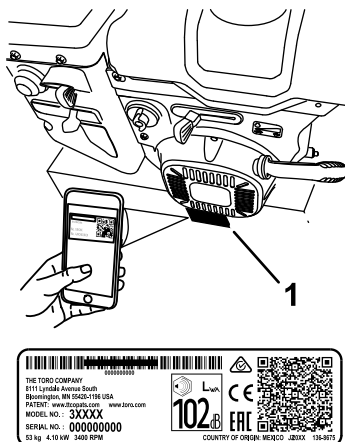


Figure 1

1. Model and serial number location

Model No. _____

Serial No. _____

This manual identifies potential hazards and has safety messages identified by the safety-alert symbol ([Figure 2](#)), which signals a hazard that may cause serious injury or death if you do not follow the recommended precautions.



Figure 2

Safety-alert symbol

g000502

This manual uses 2 words to highlight information. **Important** calls attention to special mechanical information and **Note** emphasizes general information worthy of special attention.

Important: 1500 m (5,000 ft) for a continuous period, ensure that the High Altitude Kit has been installed so that the engine meets CARB/EPA emission regulations. The High Altitude Kit increases engine performance while preventing spark-plug fouling, hard starting, and increased emissions. Once you have installed the kit, attach the high-altitude label next to the serial decal on the machine. Contact any Authorized Toro Service Dealer to obtain the proper High Altitude Kit and high-altitude label for your machine. To locate a dealer convenient to you, access our website at www.Toro.com or contact our Toro Customer Care Department at the number(s) listed in your Emission Control Warranty Statement. Remove the kit from the engine and restore the engine to its original factory configuration when running the engine under 1500 m (5,000 ft). Do not operate an engine that has been converted for high-altitude use at lower altitudes; otherwise, you could overheat and damage the engine.

If you are unsure whether or not your machine has been converted for high-altitude use, look for the following label ([Figure 3](#)).



NOTE: THE ENGINE ON THIS PRODUCT HAS BEEN
MODIFIED FOR USE AT ABOVE 5,000 FEET ELEVATION.
IF USING BELOW 5,000 FEET, IT MUST BE REVISED
BACK TO ORIGINAL SPECIFICATIONS.

127-9963

decal127-9363

Figure 3

⚠ WARNING

CALIFORNIA

Proposition 65 Warning

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

Contents

Introduction	1
Safety	3
General Safety	3
Safety and Instructional Decals	3
Setup	5
Installing the Upper Handle	5
Installing the Chute	5
Installing the Traction-Control Linkage	5
Installing the Chute-Control Rod	6
Connecting the Headlight Wire	6
Installing the Snow-Cleanout Tool	6
Checking the Engine-Oil Level	6
Checking the Tire Pressure	7
Checking the Skids and Scraper	7
Checking the Operation of the Traction Drive	7
Product Overview	8
Operation	8
Before Operation	8
Before Operation Safety	8
Filling the Fuel Tank	9
During Operation	9
During Operation Safety	9
Starting the Engine	9
Shutting Off the Engine	12
Operating the Traction Drive	12
Operating the Speed Selector	13
Operating the Auger/Impeller Drive	13
Operating the Quick Stick®	13
Clearing a Clogged Discharge Chute	14
Operating Tips	15
After Operation	15
After Operation Safety	15
Preventing Freeze-up after Use	15

Maintenance	16
Recommended Maintenance Schedule(s)	16
Maintenance Safety	16
Preparing for Maintenance	16
Checking the Engine-Oil Level	17
Checking and Adjusting the Skids and Scraper	17
Checking and Adjusting the Traction Cable	18
Checking and Adjusting the Auger/Impeller Cable	18
Checking the Auger-Gearbox-Oil Level	19
Changing the Engine Oil	19
Lubricating the Hex Shaft	20
Replacing the Spark Plug	20
Adjusting the Discharge-Chute Latch	21
Replacing the Drive Belts	21
Replacing the Headlight Bulb	21
Storage	23
Storing the Machine	23
Removing the Machine from Storage	23
Troubleshooting	24

Safety

General Safety

This machine complies with ANSI B71.3 specifications.

- Read and understand the contents of this *Operator's Manual* before you start the engine. Ensure that everyone using this product knows how to use the product and understands the warnings.
- Do not put your hands or feet near moving components on the machine.

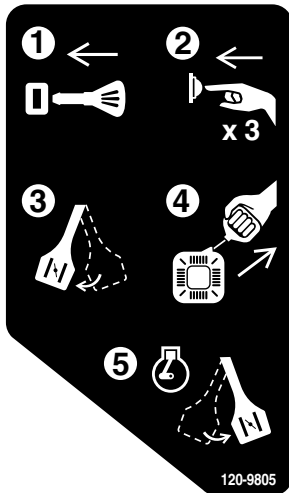
- Do not operate the machine without all guards and other safety protective devices in place and working on the machine.
- Keep clear of any discharge opening. Keep bystanders a safe distance away from the machine.
- Keep children out of the operating area. Never allow children to operate the machine.
- Shut off the engine before unclogging, servicing, or fueling the machine.

You can find additional safety information where needed throughout this manual.

Safety and Instructional Decals



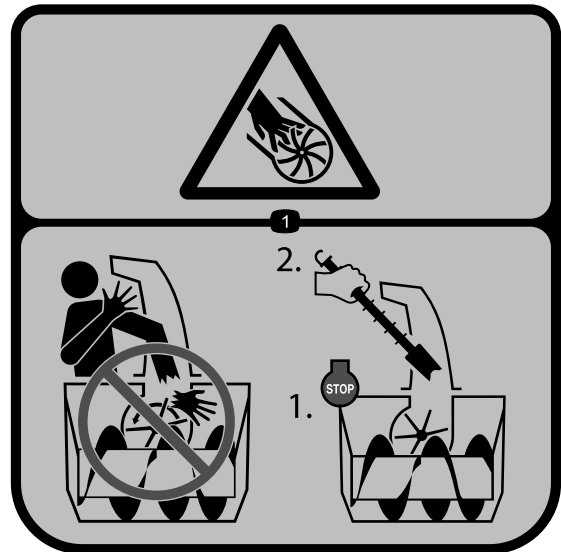
Safety decals and instructions are easily visible to the operator and are located near any area of potential danger. Replace any decal that is damaged or missing.



120-9805

decal120-9805

1. Insert the key.
2. Prime the engine 3 times.
3. Engage the choke.
4. Pull the starter cord.
5. Once the engine is running, disengage the choke.



121-1239

decal121-1239

Order Part No. 121-1215

1. Cutting/dismemberment hazard, impeller—do not place your hand in the chute; shut off the engine before leaving the operator's position and use a tool to clear the chute.



121-6817

decal121-6817

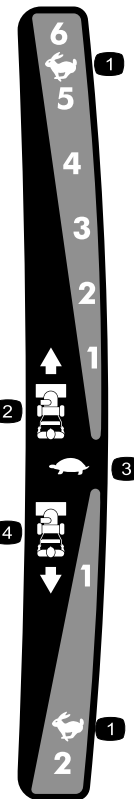
1. Cutting/dismemberment hazards of hand or foot, impeller and auger—keep bystanders a safe distance away from the machine.



131-6487

decal131-6487

1. Engine—shut off
2. Slow
3. Fast



121-6823

decal121-6823

1. Fast
2. Forward speeds
3. Slow
4. Reverse speeds



121-1240

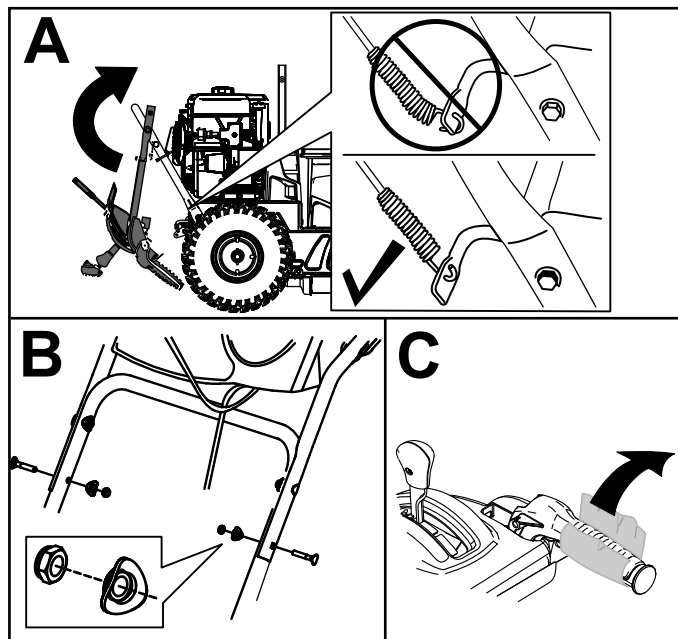
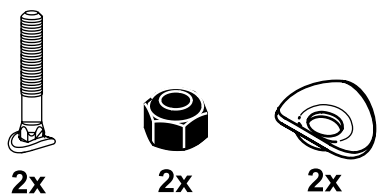
decal121-1240

Order Part No. 120-7194

1. Traction drive—squeeze the lever to engage; release the lever to disengage.
2. Warning—read the *Operator's Manual*.
3. Cutting/dismemberment hazard, impeller—do not place your hand in the chute; shut off the engine before leaving the operator's position and use a tool to clear the chute.
4. Cutting/dismemberment hazard, impeller—stay away from moving parts; keep all guards and shields in place; remove the ignition key and read the instructions before servicing or performing maintenance.
5. Thrown object hazard—keep bystanders a safe distance away from the machine.
6. Auger/impeller drive—squeeze the lever to engage; release the lever to disengage.

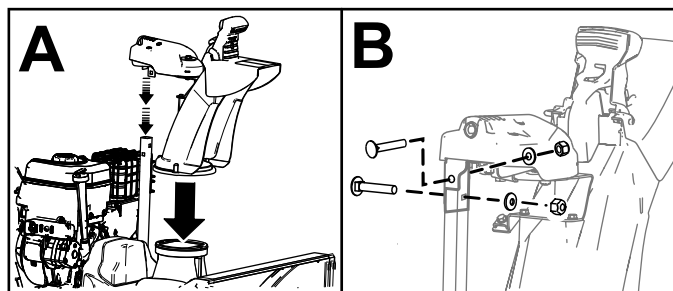
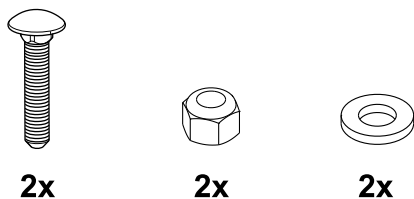
Setup

Installing the Upper Handle



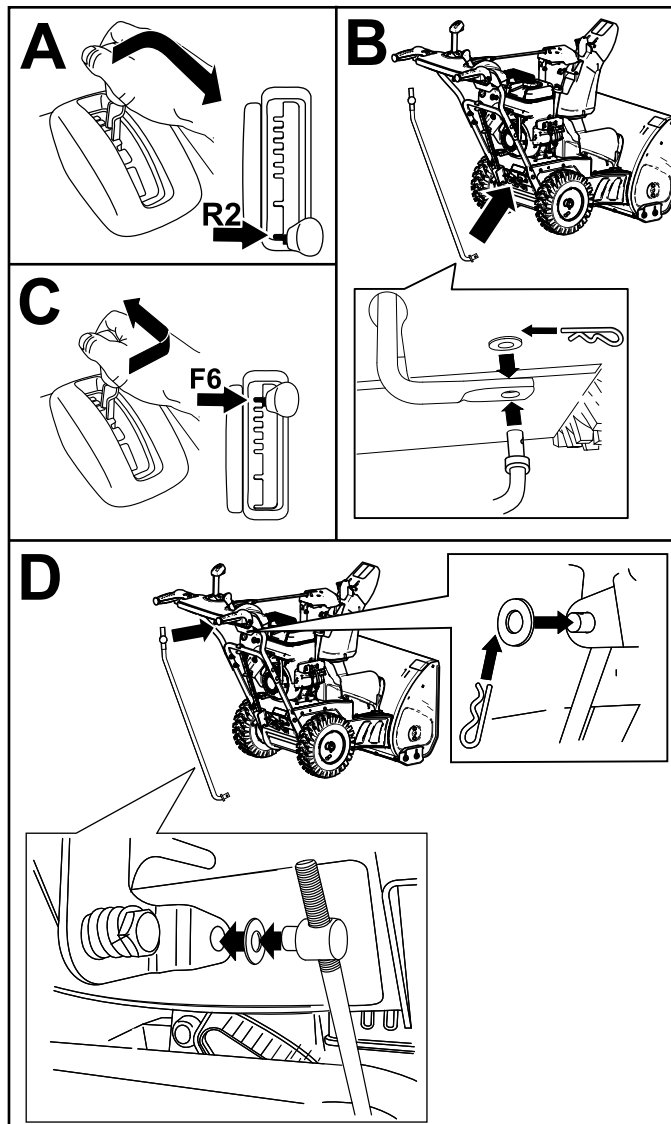
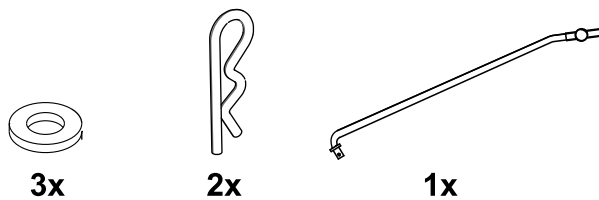
g219873

Installing the Chute



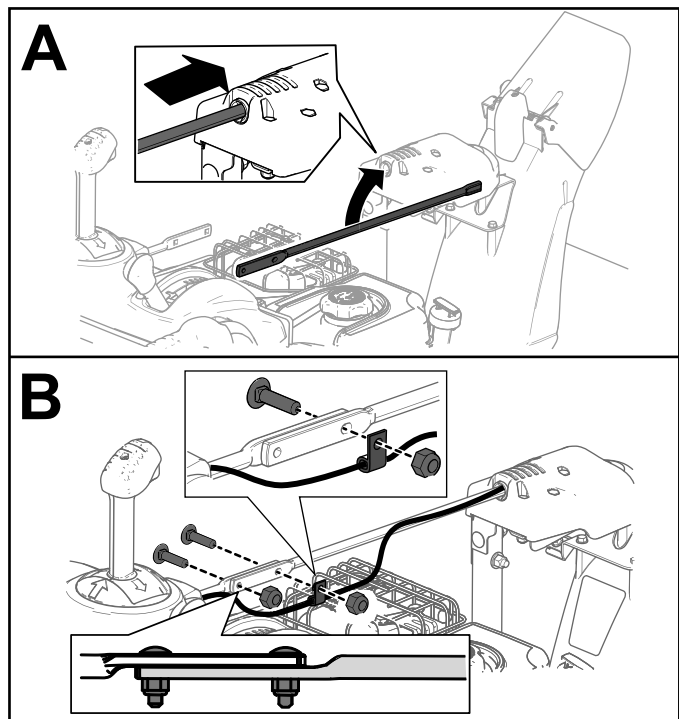
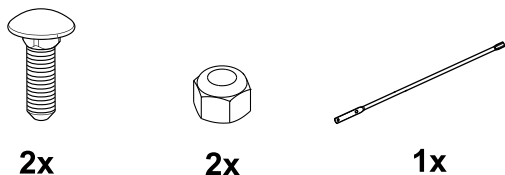
g219874

Installing the Traction-Control Linkage



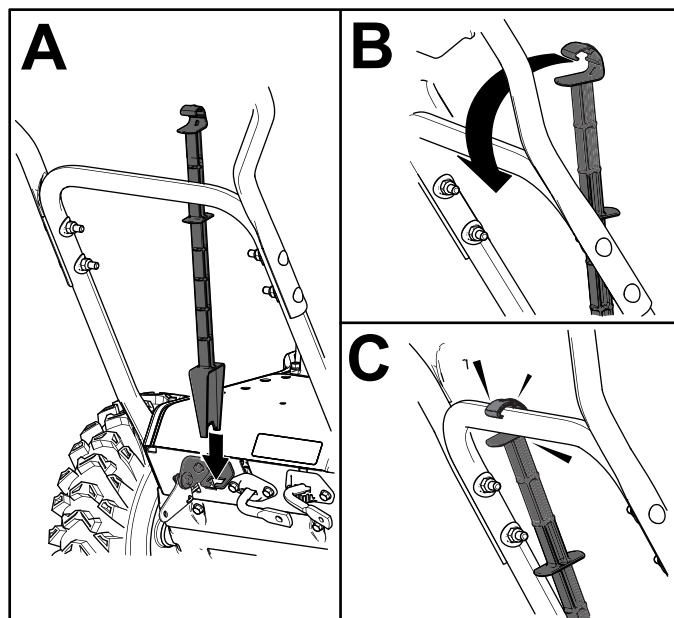
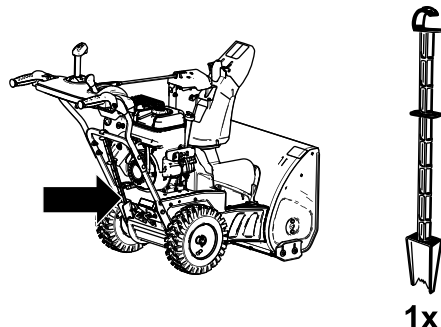
g219875

Installing the Chute-Control Rod



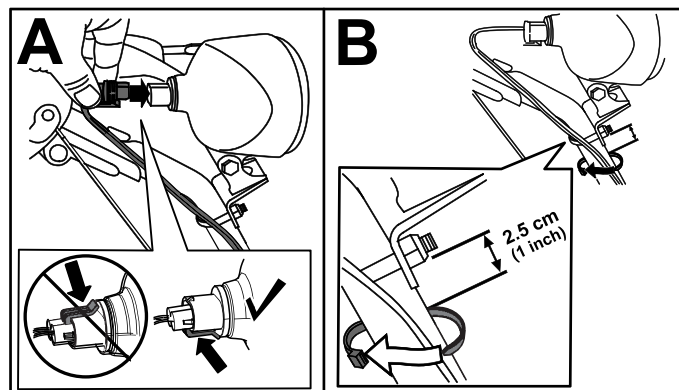
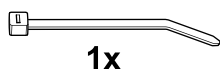
g219876

Installing the Snow-Cleanout Tool



g219878

Connecting the Headlight Wire



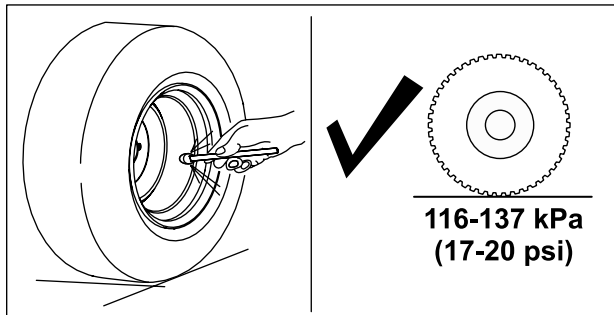
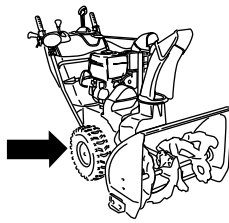
g220426

Checking the Engine-Oil Level

Note: Your machine comes with oil in the engine crankcase. Before starting the engine, check the oil level and add oil if necessary.

Refer to [Checking the Engine-Oil Level \(page 17\)](#).

Checking the Tire Pressure



g219877

Checking the Skids and Scraper

Refer to [Checking and Adjusting the Skids and Scraper](#) (page 17).

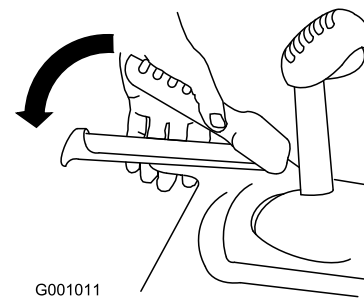
Checking the Operation of the Traction Drive

⚠ CAUTION

If the traction drive is not properly adjusted, the machine may move in the direction opposite of what you intended, causing injury and/or property damage.

Carefully check the traction drive and adjust it properly, if necessary.

1. Start the engine; refer to [Starting the Engine](#) (page 9).
2. Move the speed selector to Position R1; refer to [Operating the Speed Selector](#) (page 13).
3. Squeeze the left (traction) lever to the handgrip ([Figure 11](#)).



G001011

g001011

Figure 11

The machine should move rearward. If the machine does not move or moves forward, complete the following:

- A. Release the traction lever and shut off the engine.
 - B. Disconnect the trunnion from the speed-selector lever.
 - C. Turn the trunnion downward (clockwise) on the speed-control rod.
 - D. Connect the trunnion to the speed-selector lever.
4. Release the traction lever.
 5. Move the speed selector to Position 1; refer to [Operating the Speed Selector](#) (page 13).
 6. Squeeze the left (traction) lever to the handgrip ([Figure 11](#)).

The machine should move forward. If the machine does not move or moves rearward, complete the following:

- A. Release the traction lever and shut off the engine.
 - B. Disconnect the trunnion from the speed-selector lever.
 - C. Turn the trunnion upward (counterclockwise) on the speed-control rod.
 - D. Connect the trunnion to the speed-selector lever.
7. If you made any adjustments, repeat this procedure until no adjustments are required.

Important: If the machine moves when the traction lever is in the released position, check the traction cable; refer to [Checking and Adjusting the Traction Cable](#) (page 18) or take the machine to an Authorized Service Dealer for service.

Product Overview

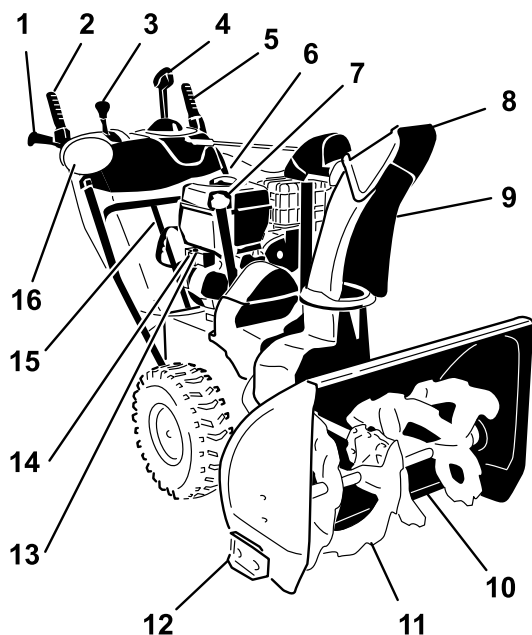


Figure 12

- | | |
|---|----------------------------|
| 1. Handgrip (2) | 9. Discharge chute |
| 2. Auger/impeller lever | 10. Scraper |
| 3. Speed-selector lever | 11. Auger |
| 4. Quick Stick® discharge-chute control | 12. Skid (2) |
| 5. Traction lever | 13. Electric-start button |
| 6. Fuel-tank cap | 14. Electric-start plug-in |
| 7. Oil-fill tube/dipstick | 15. Snow-cleanout tool |
| 8. Chute deflector | 16. Headlight |

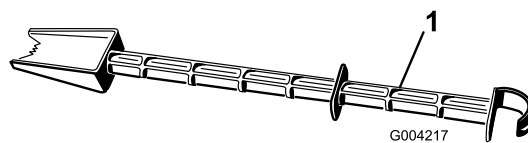


Figure 14

1. Snow-cleanout tool (attached to the handle)

Operation

Before Operation

Before Operation Safety

- **For electric-start models only:** Use extension cords and receptacles as specified in the manual. Thoroughly inspect the electrical cord before plugging it into a power source. If the cord is damaged, do not use it. Replace the damaged cord. Unplug the power cord whenever you are not starting the machine.
- Wear adequate winter garments whenever you operate the machine. Wear substantial, slip-resistant footwear that improves footing on slippery surfaces. Avoid loose-fitting clothing that can get caught in moving parts.
- Always wear eye protection during operation or while performing an adjustment or repair to protect your eyes from foreign objects that the machine may throw.
- Thoroughly inspect the area where you will use the machine, and remove all doormats, sleds, boards, wires, and other foreign objects.
- If a shield, safety device, or decal is damaged, illegible, or missing, repair or replace it before beginning operation. Also tighten any loose fasteners.

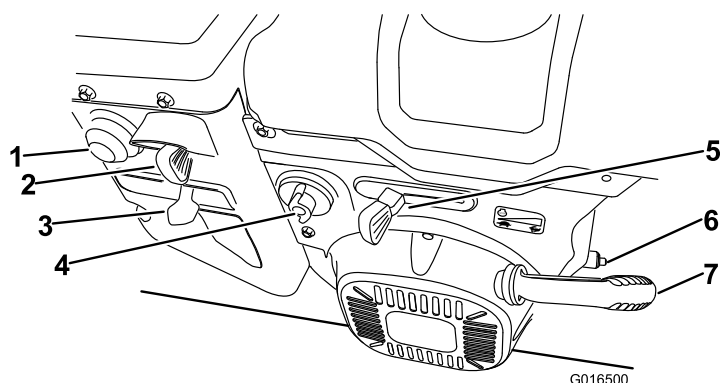


Figure 13

- | | |
|-----------------------|------------------------|
| 1. Primer | 5. Throttle |
| 2. Ignition switch | 6. Oil-drain plug |
| 3. Choke | 7. Recoil-start handle |
| 4. Fuel-shutoff valve | |

⚠ DANGER

Fuel is extremely flammable and explosive. A fire or explosion from fuel can burn you and others.

- To prevent a static charge from igniting the fuel, place the container and/or machine on the ground before filling, not in a vehicle or on an object.
- Fill the tank outdoors when the engine is cold. Wipe up spills.
- Do not handle fuel when smoking or around an open flame or sparks.
- Store fuel in an approved fuel container, out of the reach of children.
- Do not tip the machine either forward or backward with fuel in the fuel tank; otherwise, fuel may leak out of the machine.

Filling the Fuel Tank

- For best results, use only clean, fresh (less than 30 days old), unleaded gasoline with an octane rating of 87 or higher ((R+M)/2 rating method).
- Oxygenated fuel with up to 10% ethanol or 15% MTBE by volume is acceptable.
- **Do not** use ethanol blends of gasoline (such as E15 or E85) with more than 10% ethanol by volume. Performance problems and/or engine damage may result which may not be covered under warranty.
- **Do not** use gasoline containing methanol.
- **Do not** store fuel either in the fuel tank or fuel containers over the winter unless you use a fuel stabilizer.
- **Do not** add oil to gasoline.

Do not fill above the bottom of the fuel tank neck (Figure 15).

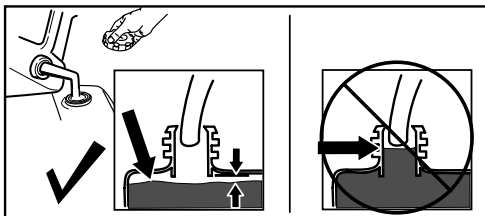


Figure 15

g216203

Note: For best results, purchase only the quantity of fuel that you expect to use in 30 days. Otherwise, you may add fuel stabilizer to newly purchased fuel to keep it fresh for up to 6 months.

During Operation

During Operation Safety

- Shut off the engine before unclogging the machine and always use a stick or the snow-cleanout tool (if provided).
- A rotating auger can injure hands or feet. Stay behind the handles and away from the discharge opening while operating the machine. **Keep your face, hands, feet, and any other part of your body or clothing away from moving or rotating parts.**
- Never direct the discharge toward people or areas where property damage can occur.
- Exercise caution to avoid slipping or falling. Always be sure of your footing, and keep a firm hold on the handles. Walk; never run.
- Exercise extreme caution when operating on slopes.
- Never operate the machine without good visibility or light.
- Do not operate the machine while ill, tired, or under the influence of alcohol or drugs.
- Look behind and use care when backing up with the machine.
- When not actively clearing snow, disengage power to the auger.
- Exercise extreme caution when operating on or crossing gravel drives, walks, or roads. Stay alert for hidden hazards or traffic.
- Never attempt to make any adjustments while the engine is running.
- After striking a foreign object, shut off the engine, remove the ignition key (electric-start models only), thoroughly inspect the machine for any damage, and repair the damage before starting and operating the machine.
- If the machine should start to vibrate abnormally, shut off the engine and check for the cause.
- Do not run the engine indoors unless there is adequate ventilation (e.g., leaving an outside door open); exhaust fumes are dangerous.
- Do not overload the machine capacity by attempting to clear snow at too fast a rate.
- Never touch a hot engine or muffler.

Starting the Engine

1. Check the engine-oil level. Refer to [Checking the Engine-Oil Level \(page 17\)](#).

- Turn the fuel-shutoff valve 1/4 turn counterclockwise to open it (Figure 16).

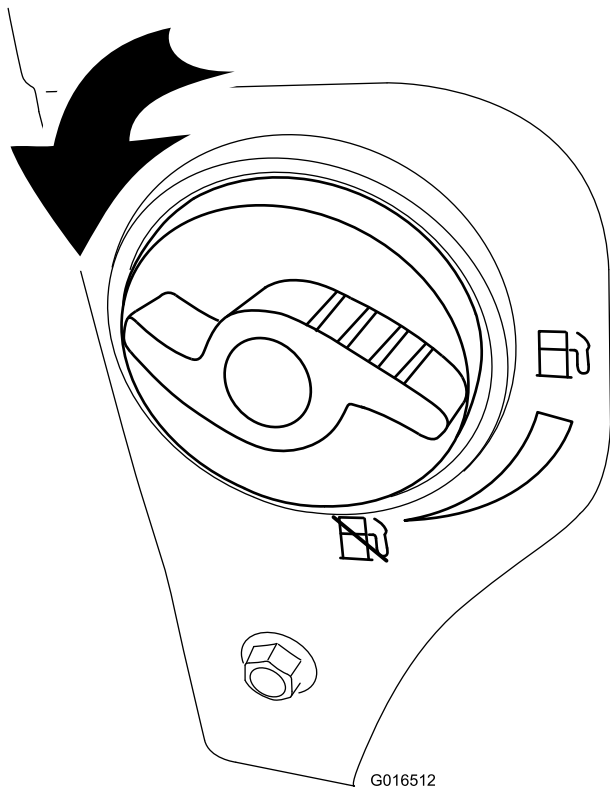


Figure 16

- Fully insert the ignition key (Figure 17).

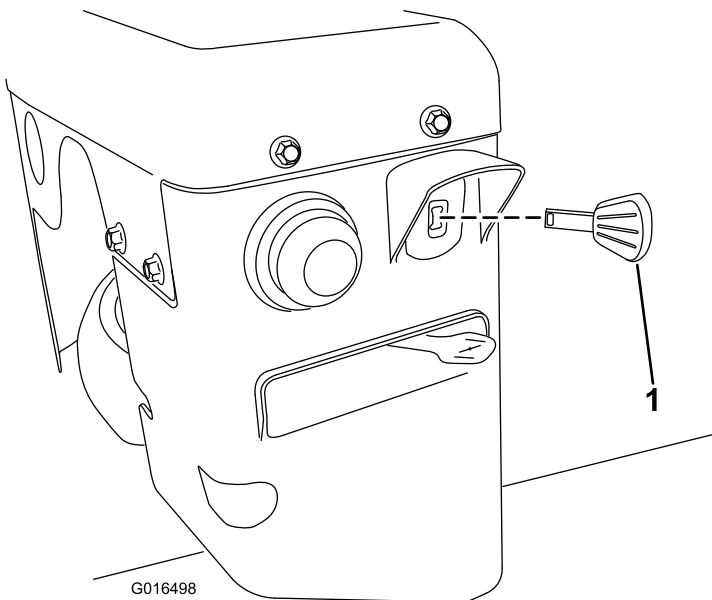


Figure 17

- Ignition key

- Firmly push in the primer with your thumb as indicated by the following table, holding the

primer in for a second before releasing it each time (Figure 18).

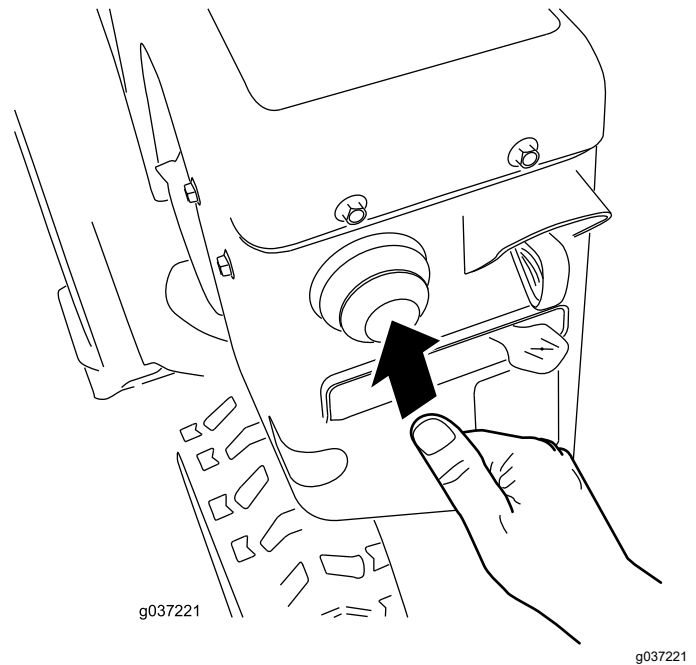


Figure 18

Temperature	Suggested Number of Primes
-23°C (-10°F) and above	3
Below -23°C (-10°F)	6

- Move the choke to the CHOKE position (Figure 19).

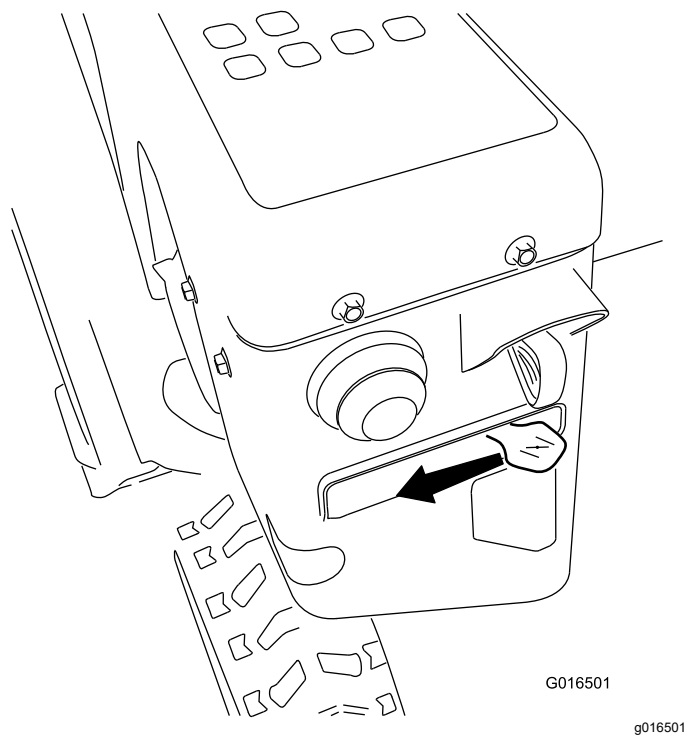


Figure 19

6. Move the throttle to the FAST position (Figure 20).

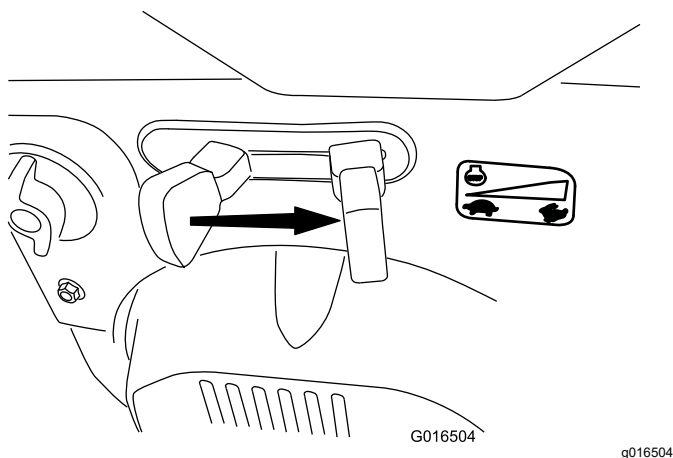


Figure 20

7. Start the machine by pulling the recoil starter or pressing the electric-starter button (Figure 21).

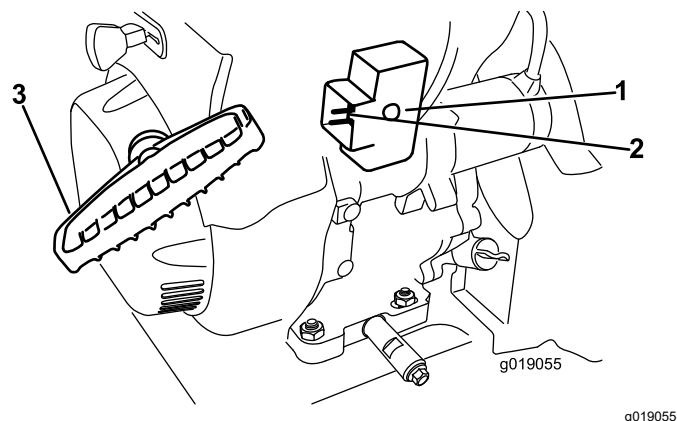


Figure 21

1. Electric-starter button
2. Electric starter plug-in
3. Recoil-start handle

Note: To use the electric starter (electric-start models only), connect a power cord to the plug-in first and then to a power outlet. Use only a UL-listed, 16-gauge extension cord recommended for outdoor use that is not longer than 50 ft (15 m).

⚠ WARNING

The electrical cord can become damaged, causing a shock or fire.

Thoroughly inspect the electrical cord before using the machine. If the cord is damaged, do not use it. Replace or repair the damaged cord immediately. Contact an Authorized Service Dealer for assistance.

Important: To prevent damaging the electric starter, run it in short cycles (5 seconds on, 5 seconds off), no more than 10 times. If the engine still does not start, take the machine to an Authorized Service Dealer for service.

8. Disconnect the power cord from the power outlet first and then from the machine (electric-start models only).
9. Allow the engine to warm up; gradually move the choke toward the RUN position. Wait for the engine to run smoothly before each choke adjustment.

⚠ CAUTION

If you leave the machine plugged into a power outlet, someone can inadvertently start the machine and injure people or damage property.

Unplug the power cord whenever you are not starting the machine.

Shutting Off the Engine

1. Move the throttle to the SLOW position, and then to the STOP position (Figure 22). You can also shut off the engine by pulling the ignition key outward to the middle position.

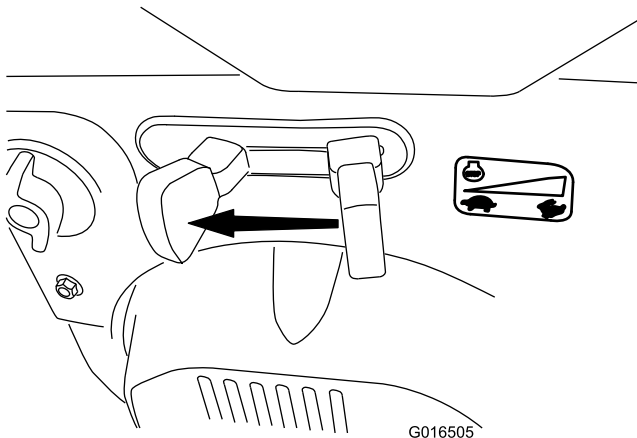


Figure 22

2. Wait for all moving parts to stop before leaving the operating position.
3. Remove the ignition key to prevent accidental starting.
4. Close the fuel-shutoff valve by rotating it clockwise (Figure 23).

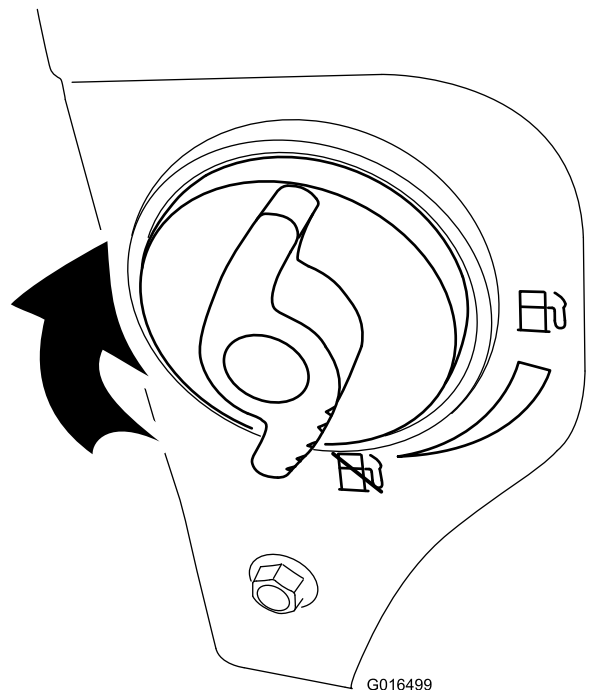


Figure 23

5. Pull the recoil starter 3 or 4 times.

Note: This helps prevent the recoil starter from freezing up.

Operating the Traction Drive

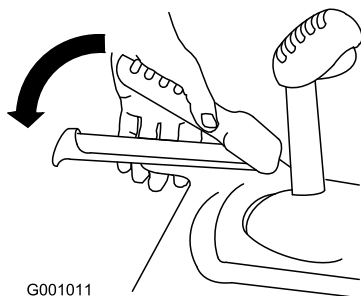
⚠ CAUTION

If the traction drive is not properly adjusted, the machine may move in the direction opposite of what you intended, causing injury and/or property damage.

Carefully check the traction drive and adjust it properly, if necessary; refer to [Checking the Operation of the Traction Drive \(page 7\)](#) for more information.

Important: If the machine moves when the traction lever is in the released position, check the traction cable; refer to [Checking and Adjusting the Traction Cable \(page 18\)](#) or take the machine to an Authorized Service Dealer for service.

1. To engage the traction drive, squeeze the left (traction) lever to the handgrip (Figure 24).



G001011

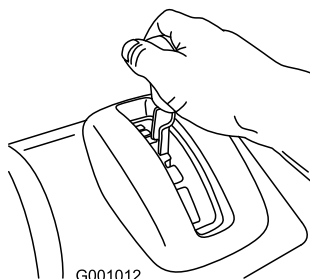
g001011

Figure 24

2. To stop the traction drive, release the traction lever.

Operating the Speed Selector

The speed selector has 6 forward and 2 reverse gears. To change speeds, release the traction lever and shift the speed-selector lever to the desired position (Figure 25). The lever locks in a notch at each speed selection.



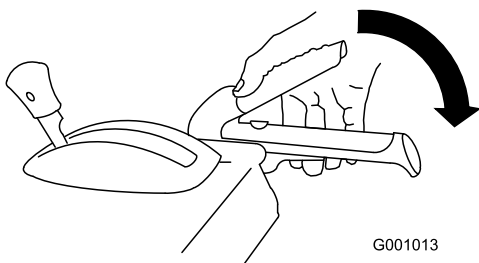
G001012

g001012

Figure 25

Operating the Auger/Impeller Drive

1. To engage the auger/impeller drive, squeeze the right (auger/impeller) lever to the handgrip (Figure 26).



G001013

g001013

Figure 26

2. To stop the auger and impeller, release the right lever.

Important: When you engage both the auger/impeller lever and the traction lever, the traction lever locks the auger/impeller lever down, freeing your right hand. To release both levers, simply release the left (traction) lever.

3. If the auger and impeller continue to rotate when you release the auger/impeller lever, do not operate the machine. Check the auger/impeller cable; refer to [Checking and Adjusting the Auger/Impeller Cable \(page 18\)](#) and adjust it if necessary. Otherwise, take the machine to an Authorized Dealer for service.

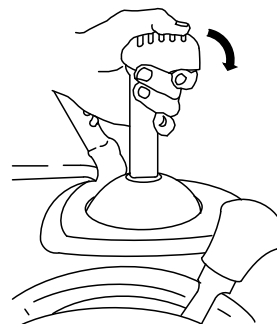
⚠ WARNING

If the auger and impeller continue to rotate when you release the auger/impeller lever, you could seriously injure yourself or others.

Do not operate the machine. Take it to an Authorized Service Dealer for service.

Operating the Quick Stick®

Hold the blue trigger cap down to use the Quick Stick to move the discharge chute and the chute deflector. Release the trigger cap to lock the discharge chute and chute deflector into position (Figure 27).



G001014

g001014

Figure 27

Moving the Discharge Chute

Hold the blue trigger cap down and move the Quick Stick to the left to move the discharge chute to the left; move the Quick Stick to the right to move the discharge chute to the right (Figure 28).

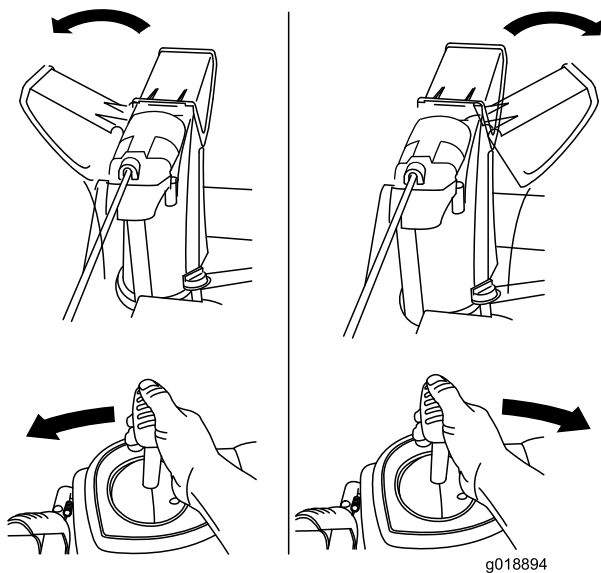


Figure 28

- If the chute does not move, refer to [Adjusting the Discharge-Chute Latch](#) (page 21).
- If the chute does not turn as far to the left as it does to the right, ensure that the cable is routed to the inside of the handles. Refer to [Installing the Upper Handle](#) (page 5).
- If the chute does not lock into place when you release the trigger cap, refer to [Adjusting the Discharge-Chute Latch](#) (page 21).

Moving the Chute Deflector

Hold the blue trigger cap down and move the Quick Stick forward to lower the chute deflector; move it rearward to raise the chute deflector ([Figure 29](#)).

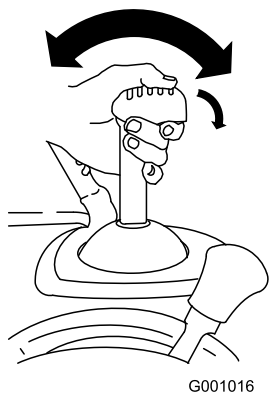


Figure 29

Clearing a Clogged Discharge Chute

⚠ WARNING

If the auger/impeller is running but there is no snow coming out of the discharge chute, the discharge chute may be clogged.

Never use your hands to clear a clogged discharge chute. This could result in personal injury.

- To unclog the discharge chute, stay in the operating position and release the left (traction) lever. While running the auger/impeller, push down on the handles to raise the front of the machine a few centimeters (inches) off the pavement. Then lift the handles quickly to bump the front of the machine on the pavement. Repeat if necessary until a stream of snow comes out the discharge chute.
- If you cannot unclog the discharge chute by bumping the front of the machine, **shut off the engine, wait for all moving parts to stop, and use the snow-cleanout tool** ([Figure 14](#)).

Important: Unclogging the discharge chute by bumping the front of the machine on the pavement may cause the skids to move. Adjust the skids and tighten the skid bolts securely; refer to [Checking and Adjusting the Skids and Scraper](#) (page 17).

Operating Tips

⚠ DANGER

When the machine is in operation, the impeller and auger rotate and can injure or amputate hands or feet.

- Before adjusting, cleaning, inspecting, troubleshooting, or repairing the machine, shut off the engine and wait for all moving parts to stop. Disconnect the wire from the spark plug and keep it away from the plug to prevent someone from accidentally starting the engine.
- Remove an obstruction from the discharge chute; refer to [Clearing a Clogged Discharge Chute \(page 14\)](#). Use the snow-cleanout tool ([Figure 15](#)), not your hands, to remove an obstruction from the discharge chute.
- Stay behind the handles and away from the discharge opening while operating the machine.
- Keep your face, hands, feet, and any other part of your body or clothing away from concealed, moving, or rotating parts.

⚠ WARNING

The impeller can throw stones, toys, and other foreign objects and cause serious personal injury to you or bystanders.

- Keep the area to be cleared free of all objects that the auger could pick up and throw.
- Keep all children and pets away from the area of operation.
- Always set the throttle to the FAST position when throwing snow.
- If the engine slows down under a load or the wheels slip, shift the machine into a lower gear.
- If the front of the machine rides up, shift the machine into a lower gear. If the front continues to ride up, lift up on the handles.

After Operation

After Operation Safety

- Never store the machine with fuel in the fuel tank inside a building where ignition sources are present, such as hot water heaters, space heaters, or clothes dryers. Allow the engine to cool before storing in any enclosure.
- When storing the machine for more than 30 days, refer to [Storage \(page 23\)](#) for important details.

Preventing Freeze-up after Use

- In snowy and cold conditions, some controls and moving parts may freeze. **Do not use excessive force when trying to operate frozen controls.** If you have difficulty operating any control or part, start the engine and let it run for a few minutes.
- After using the machine, let the engine run for a few minutes to prevent moving parts from freezing. Engage the auger/impeller to clear any remaining snow from inside the housing. Rotate the Quick Stick to prevent it from freezing. Shut off the engine, wait for all moving parts to stop, and remove all ice and snow from the machine.
- With the engine off, pull the recoil-start handle several times and push the electric-start button once to prevent the recoil starter and electric starter from freezing up.

Maintenance

Recommended Maintenance Schedule(s)

Maintenance Service Interval	Maintenance Procedure
After the first 2 hours	• Inspect the traction cable and adjust it if necessary. • Inspect the auger/impeller cable and adjust it if necessary.
After the first 5 hours	• Change the engine oil.
Before each use or daily	• Check the engine-oil level and add oil if necessary.
Every 100 hours	• Replace the spark plug.
Yearly	• Check the skids and the scraper and adjust them if necessary. • Inspect the traction cable and adjust or replace it if necessary. • Inspect the auger/impeller cable and adjust or replace it if necessary. • Check the auger-gearbox oil and add oil if necessary. • Change the engine oil. • Lubricate the hex shaft.
Yearly or before storage	• Check the air pressure in the tires and inflate them to 116 to 137 kPa (17 to 20 psi). • Drain the fuel and run the engine to dry out the fuel tank and the carburetor at the end of the season. • Have an Authorized Service Dealer inspect and replace the traction-drive belt and/or the auger/impeller drive belt, if necessary.

Important: You can find more information about maintaining and servicing your machine at www.Toro.com.

Maintenance Safety

Read the following safety precautions before performing any maintenance on the machine:

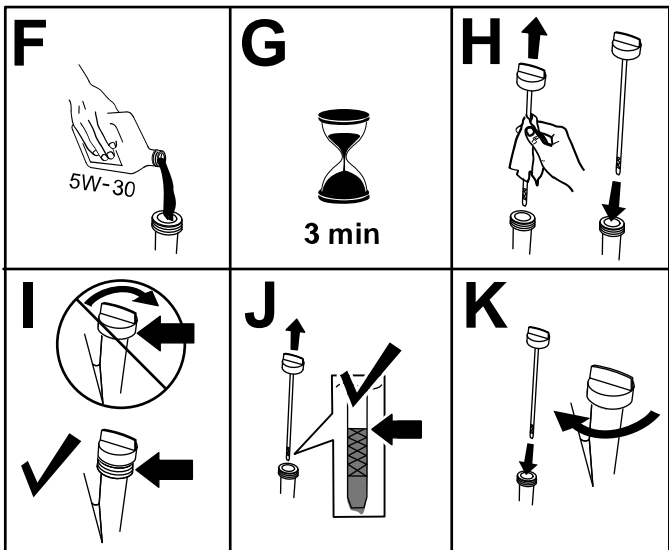
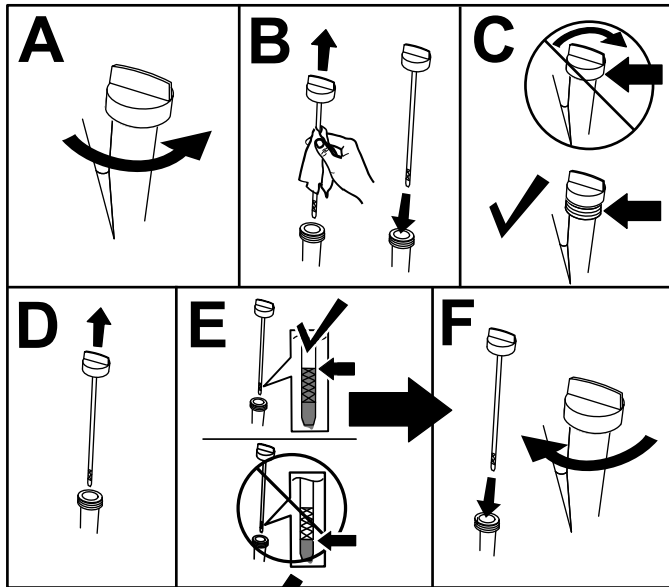
- Before performing any maintenance, service, or adjustment, shut off the engine and remove the key. If major repairs are ever needed, contact an Authorized Service Dealer.
- Check all fasteners at frequent intervals for proper tightness to ensure that the machine is in safe working condition.
- Do not change the governor settings on the engine.
- Purchase only genuine Toro replacement parts and accessories.

Preparing for Maintenance

1. Move the machine to a level surface.
2. Shut off the engine and wait for all moving parts to stop.
3. Disconnect the spark-plug wire. Refer to [Replacing the Spark Plug \(page 20\)](#).

Checking the Engine-Oil Level

Service Interval: Before each use or daily—Check the engine-oil level and add oil if necessary.



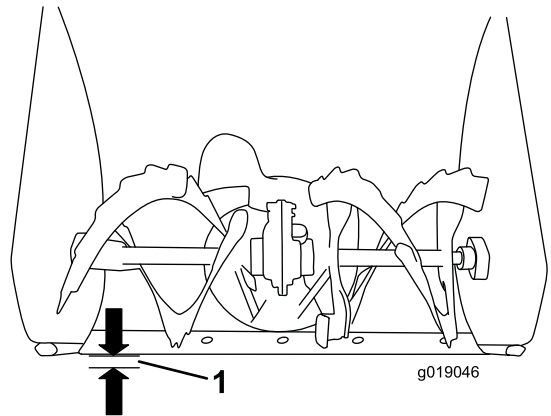
g220487

Checking and Adjusting the Skids and Scraper

Service Interval: Yearly—Check the skids and the scraper and adjust them if necessary.

Check the skids and the scraper to ensure that the auger does not contact the paved or gravel surface. Adjust the skids and the scraper as needed to compensate for wear.

1. Check the tire pressure; refer to [Checking the Tire Pressure \(page 7\)](#).
2. Loosen the nuts that secure both skids to the auger sides until the skids slide up and down easily.



g019046

Figure 31

1. 3 mm (1/8 inch)

Important: The auger blades must be supported above the ground by the skids.

3. Ensure that the scraper is 3 mm (1/8 inch) above and parallel to a level surface.

Note: If the pavement is cracked, rough, or uneven, adjust the skids to raise the scraper. For gravel surfaces, adjust the skids further down to prevent the machine from picking up rocks.

4. Move the skids down until they are even with the ground.
5. Firmly tighten the nuts that secure both skids to the auger sides.

Note: To quickly adjust the skids if they loosen, support the scraper 3 mm (1/8 inch) off the pavement, then adjust the skids down to the pavement.

Note: If the skids become excessively worn, you can turn them over and set the unused side toward the pavement.

Checking and Adjusting the Traction Cable

Service Interval: After the first 2 hours—Inspect the traction cable and adjust it if necessary.

Yearly—Inspect the traction cable and adjust or replace it if necessary.

If the machine does not drive in the forward or reverse speeds or it drives when you release the traction lever, adjust the traction cable.

If the left (traction) cable is not properly adjusted, do the following steps:

1. Loosen the jam nut.
2. Engage the traction lever and hold it in place (Figure 32).

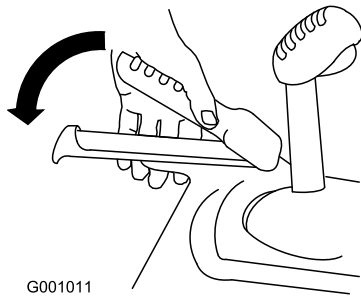


Figure 32

3. Loosen or tighten the turnbuckle to adjust the spring length to 5.5 cm (2.18 inches) as shown in Figure 33.

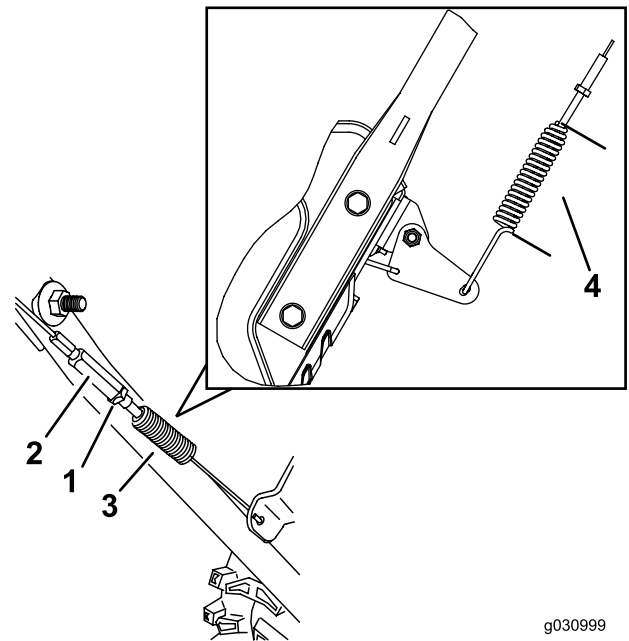


Figure 33

- | | |
|---------------|-------------------------|
| 1. Jam nut | 3. Spring |
| 2. Turnbuckle | 4. 5.5 cm (2.18 inches) |

4. Tighten the jam nut (Figure 33), ensuring there is slight tension on the cable.
5. If the traction cable is properly adjusted but a problem remains, contact an Authorized Service Dealer.

Checking and Adjusting the Auger/Impeller Cable

Service Interval: After the first 2 hours—Inspect the auger/impeller cable and adjust it if necessary.

Yearly—Inspect the auger/impeller cable and adjust or replace it if necessary.

1. Loosen the jam nut.
2. Engage the auger/impeller lever and hold it in place (Figure 34).

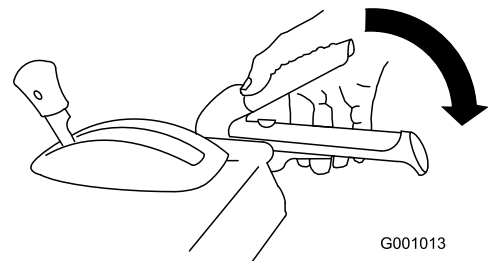


Figure 34

- Loosen or tighten the turnbuckle to adjust the spring length to 7 cm (2-3/4 inches) as shown in [Figure 35](#).

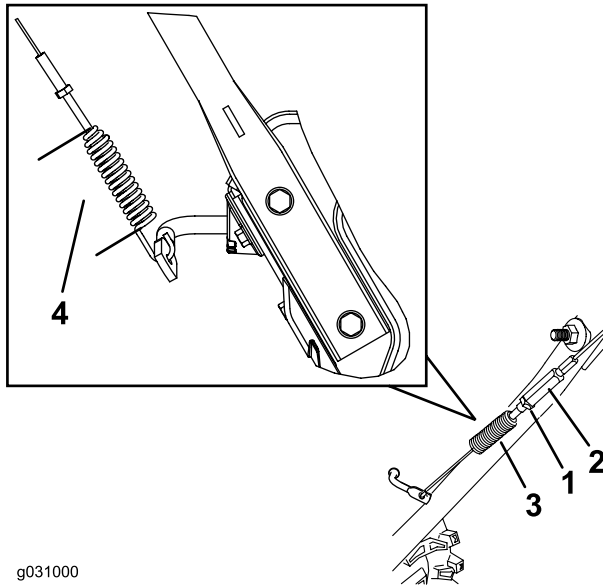


Figure 35

- Jam nut
- Turnbuckle
- Spring
- 7 cm (2-3/4 inches)

Checking the Auger-Gearbox-Oil Level

Service Interval: Yearly—Check the auger-gearbox oil and add oil if necessary.

- Move the machine to a level surface.
- Clean the area around the pipe plug ([Figure 36](#)).

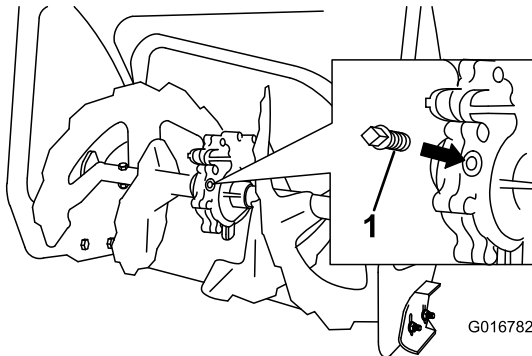


Figure 36

- Pipe plug

- Remove the pipe plug from the gearbox.
- Check the oil level in the gearbox. The oil should be 9.5 mm (3/8 inch) below the filler opening.
- If the oil level is low, add GL-5 or GL-6, SAE 80-90 EP gear oil lubricant to the gearbox until the oil level is 9.5 mm (3/8 inch) below the filler opening.

Note: Do not use synthetic oil.

- Install the pipe plug in the gearbox.

Changing the Engine Oil

Service Interval: After the first 5 hours—Change the engine oil.

Yearly—Change the engine oil.

If possible, run the engine for a few minutes before changing the oil because warm oil flows better and carries more contaminants.

Engine oil capacity	0.70 L (24 fl oz)
Oil viscosity	Refer to Figure 37 .
API service classification	SJ or higher

Use [Figure 37](#) below to select the best oil viscosity for the outdoor temperature range expected:

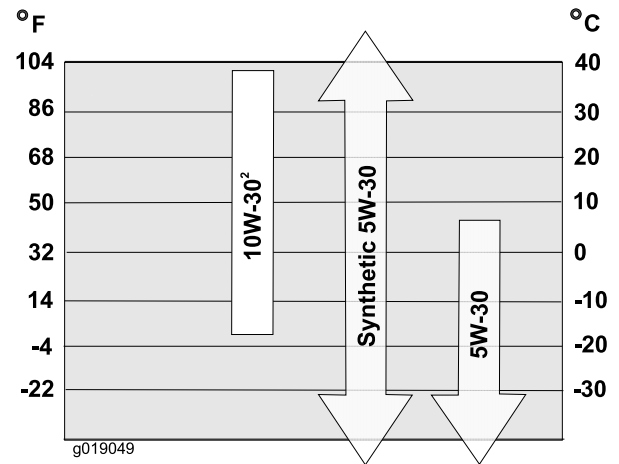


Figure 37

- Clean the area around the oil-drain cap ([Figure 38](#)).

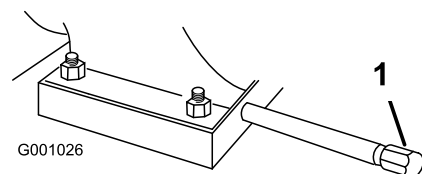


Figure 38

- Oil-drain cap

- Slide an oil-drain pan under the drain extension and remove the oil-drain cap.
 - Drain the oil.
- Note:** Dispose of the used oil properly at a local recycling center.
- Install the oil-drain cap.
 - Fill the crankcase with oil.

Lubricating the Hex Shaft

Service Interval: Yearly—Lubricate the hex shaft.

Lightly lubricate the hex shaft yearly with automotive engine oil (Figure 39).

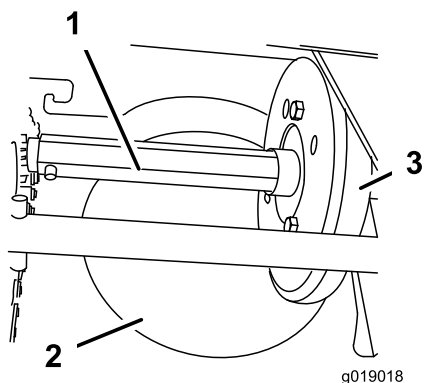


Figure 39

- | | |
|--------------------------|-----------------|
| 1. Hex shaft | 3. Rubber wheel |
| 2. Steel friction pulley | |

Important: Do not get oil on the rubber wheel or the steel friction pulley because the traction drive will slip (Figure 39).

- Drain the fuel from the fuel tank.
- Tip the machine forward onto its auger housing and block it so that it cannot fall.
- Remove the back cover (Figure 40).

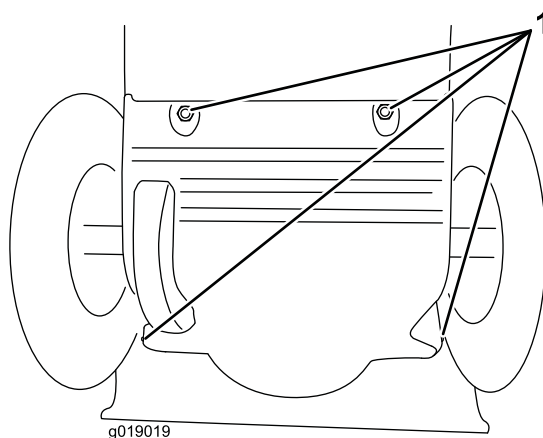


Figure 40

- Screws
-
- Move the speed-selector lever to Position R2.
 - Dip your finger in automotive engine oil and **lightly** lubricate the hex shaft.
 - Move the speed-selector lever to Position 6.
 - Lubricate the other end of the hex shaft.
 - Move the speed-selector lever forward and rearward a few times.
 - Install the back cover and return the machine to the operating position.

Replacing the Spark Plug

Service Interval: Every 100 hours—Replace the spark plug.

⚠ WARNING

Replacing the spark plug while the engine is hot can result in burns.

Wait until the engine is cool to replace the spark plug.

Use a Toro spark plug or equivalent (Champion® RN9YC or NGK BPR6ES).

- Remove the boot (Figure 41).

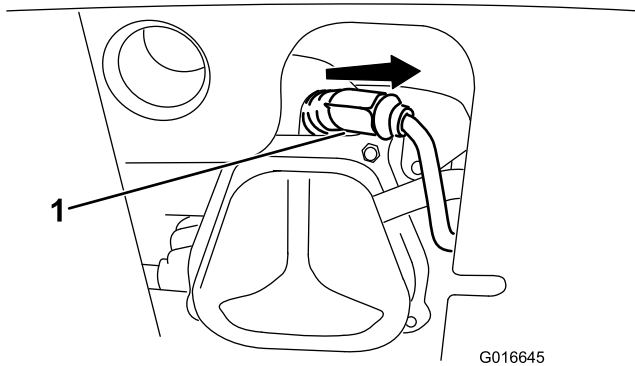


Figure 41

1. Spark-plug boot

2. Clean around the base of the spark plug.

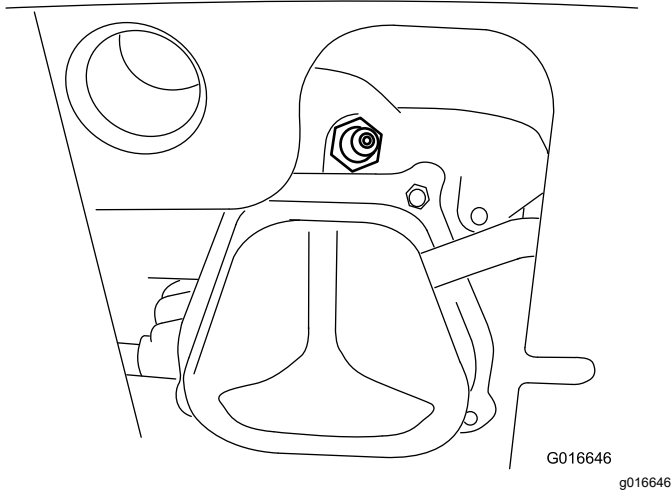


Figure 42

3. Remove and discard the old spark plug.

Note: You will need a ratchet wrench extension to remove the spark plug.

4. Set the gap between the electrodes on a new spark plug at 0.76 mm (0.030 inch) as shown in [Figure 43](#).

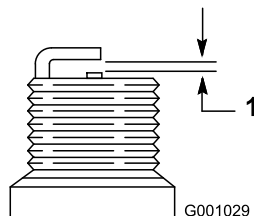


Figure 43

1. 0.76 mm (0.030 inch)

5. Install the new spark plug, tighten it firmly, and attach the ignition wire to the spark plug.

Note: Ensure that the ignition wire snaps completely into place on the spark plug.

Adjusting the Discharge-Chute Latch

If the discharge chute does not lock into the desired position or does not unlock so that you can move it to another position, adjust the discharge-chute latch.

1. Loosen the clamp fastener on the chute-support plate until the cable is free.

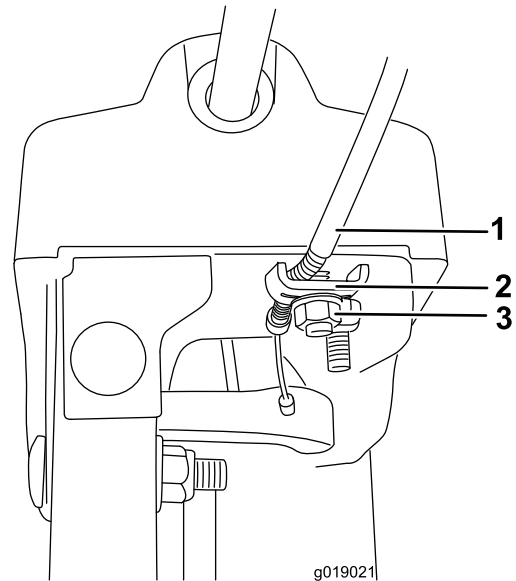


Figure 44

1. Cable conduit
2. Cable clamp
3. Clamp fastener

2. Remove any slack in the cable by pulling the cable conduit rearward.

3. Tighten the clamp fastener while holding the cable in place.

Replacing the Drive Belts

If the auger/impeller drive belt or the traction-drive belt becomes worn, oil-soaked, or otherwise damaged, have an Authorized Service Dealer replace the belt.

Replacing the Headlight Bulb

Use a Toro light bulb or equivalent (GE 899 37W halogen bulb). Do not touch the bulb with your hands or allow dirt or moisture to come into contact with the bulb.

1. Remove the wire connector from the back of the headlight ([Figure 45](#)).

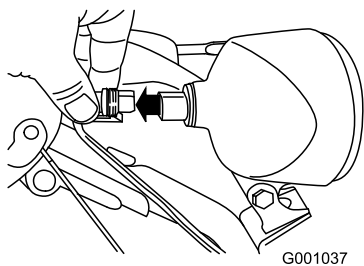


Figure 45

g001037

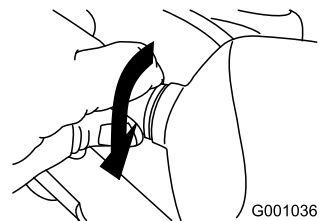


Figure 49

g001036

2. Turn the base of the bulb counterclockwise until it stops ([Figure 46](#)).

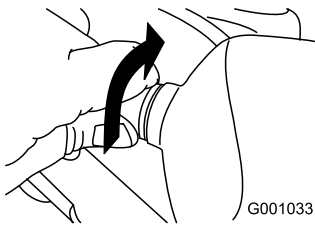


Figure 46

g001033

3. Remove the bulb straight out from the back of the headlight ([Figure 47](#)).

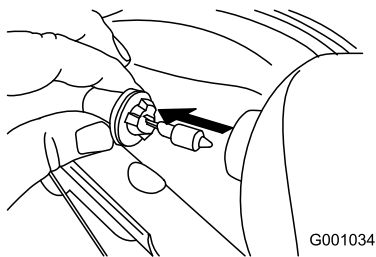


Figure 47

g001034

4. Insert a new bulb into the back of the headlight ([Figure 48](#)).

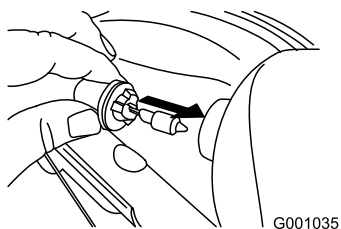


Figure 48

g001035

6. Insert the wire connector straight into the back of the headlight until it is securely in place ([Figure 50](#)).

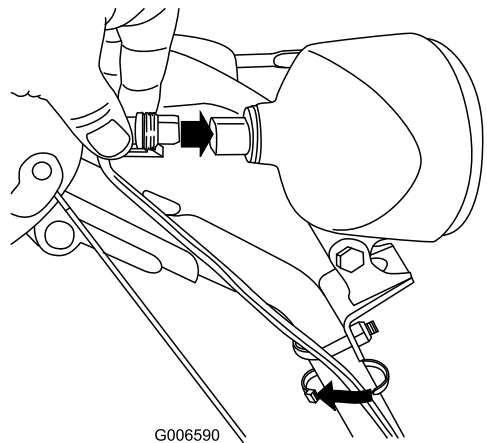


Figure 50

g006590

5. Turn the base of the bulb clockwise until it is snug ([Figure 49](#)).

Storage

Storing the Machine

1. On the last refueling of the year, add fuel stabilizer to fresh fuel as directed by the fuel stabilizer manufacturer.

Important: Do not store fuel longer than that suggested by the fuel stabilizer manufacturer.

2. Run the engine for 10 minutes to distribute the conditioned fuel through the fuel system.
3. Run the machine until the engine runs out of fuel.
4. Prime the engine and start it again.
5. Allow the engine to run until it shuts off. When you can no longer start the engine, it is sufficiently dry.
6. Allow the engine to cool.
7. Remove the ignition key.
8. Clean the machine thoroughly.
9. Touch up chipped surfaces with paint available from an Authorized Service Dealer. Sand affected areas before painting, and use a rust preventative to prevent the metal parts from rusting.
10. Tighten all loose screws, bolts, and locknuts. Repair or replace any damaged parts.
11. Cover the machine and store it in a clean, dry place out of the reach of children.

Removing the Machine from Storage

Perform the annual maintenance procedures as given in the Recommended Maintenance Schedule; refer to [Maintenance \(page 16\)](#).

Troubleshooting

Problem	Possible Cause	Corrective Action
The electric starter does not turn (electric-start models only).	1. The power cord is disconnected at the outlet or the machine. 2. The power cord is worn, corroded, or damaged. 3. The power outlet is not energized.	1. Connect the power cord to the outlet and/or the machine. 2. Replace the power cord. 3. Have a qualified electrician energize the outlet.
The engine does not start or starts hard.	1. The key is not in the ignition or is in the STOP position. 2. The choke is in the OFF position and the primer has not been pressed. 3. The fuel-shutoff valve is not open. 4. The throttle is not in the FAST position. 5. The fuel tank is empty or the fuel system contains stale fuel. 6. The spark-plug wire is loose or disconnected. 7. The spark plug is pitted, fouled, or the gap is incorrect. 8. The fuel-vent cap is restricted. 9. The engine-oil level in the engine crankcase is too low or too high.	1. Insert the key into the ignition and turn it to the ON position. 2. Move the choke to the ON position and press the primer 3 times. 3. Open the fuel-shutoff valve. 4. Move the throttle to the FAST position. 5. Drain and/or fill the fuel tank with fresh fuel (not more than 30 days old). If the problem persists, contact an Authorized Service Dealer. 6. Connect the wire to the spark plug. 7. Check the spark plug and adjust the gap if necessary. Replace the spark plug if it is pitted, fouled, or cracked. 8. Remove the vent restriction or replace the fuel cap. 9. Add or drain oil to adjust the oil level in the engine crankcase to the Full mark on the dipstick.
The engine runs rough.	1. The choke is in the ON position. 2. The fuel-shutoff valve is not completely open. 3. The fuel tank is nearly empty or contains stale fuel. 4. The spark-plug wire is loose. 5. The spark plug is pitted, fouled, or the gap is incorrect. 6. The engine-oil level in the engine crankcase is too low or too high.	1. Move the choke to the OFF position. 2. Open the fuel-shutoff valve. 3. Drain and fill the fuel tank with fresh fuel (not more than 30 days old). If the problem persists, contact an Authorized Service Dealer. 4. Connect the wire to the spark plug. 5. Check the spark plug and adjust the gap if necessary. Replace the spark plug if it is pitted, fouled, or cracked. 6. Add or drain oil to adjust the oil level in the engine crankcase to the Full mark on the dipstick.

Problem	Possible Cause	Corrective Action
The engine runs, but the machine discharges snow poorly or not at all.	1. The throttle is not in the FAST position when throwing snow. 2. The machine is moving too fast to clear the snow. 3. You are trying to remove too much snow per swath. 4. You are trying to remove extremely heavy or wet snow. 5. The discharge chute is plugged. 6. The auger/impeller drive belt is loose or is off the pulley. 7. The auger/impeller drive belt is worn or broken.	1. Move the throttle to the FAST position. 2. Shift the machine into a lower gear. 3. Reduce the amount of snow removed per swath. 4. Do not overload the machine with extremely heavy or wet snow. 5. Unclog the discharge chute. 6. Install and/or adjust the auger/impeller drive belt; refer to www.Toro.com for servicing information or take the machine to an Authorized Service Dealer. 7. Replace the auger/impeller drive belt; refer to www.Toro.com for servicing information or take the machine to an Authorized Service Dealer.
The discharge chute either does not lock into place or does not move.	1. The discharge-chute latch is not properly adjusted.	1. Adjust the discharge-chute latch.
The machine does not properly clear the snow off the surface.	1. The skids and/or scraper are not properly adjusted. 2. The pressure in the tires is not equal.	1. Adjust the skids and/or the scraper. 2. Check and adjust the pressure in 1 or both tires.

Notes:

Notes:



Count on it.