Form No. 3482-811 Rev B

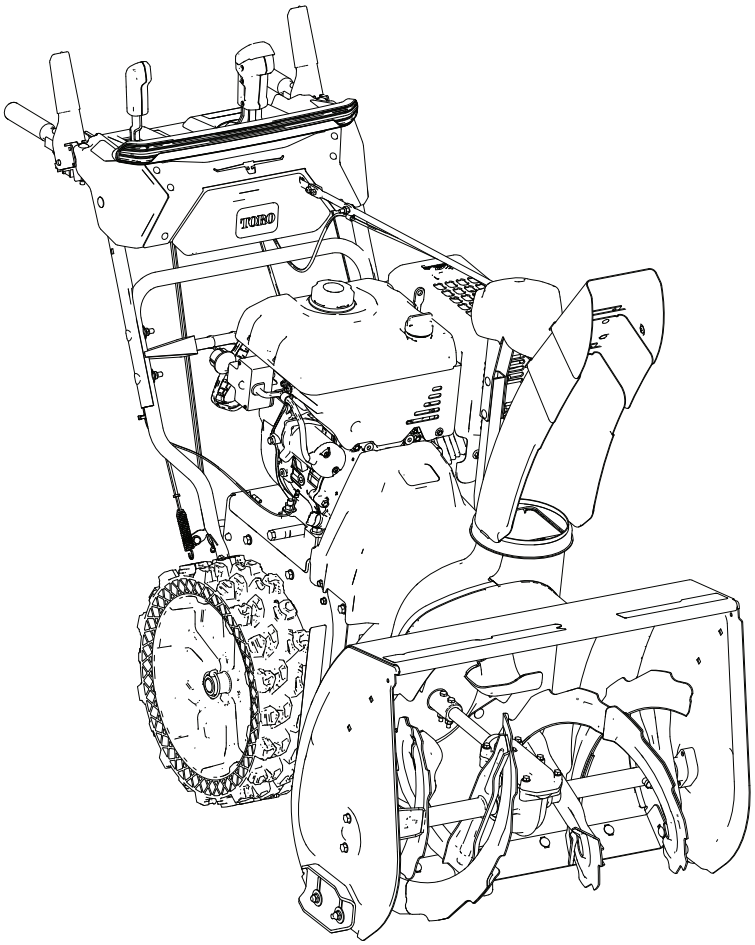
TORO®

Count on it.

Operator's Manual

Power Max® Heavy Duty 1030 Snowthrower

Model No. 39962—Serial No. 400000000 and Up



Register at www.Toro.com.
Original Instructions (EN)

3482-811

Important: **If you are using this machine above 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).



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.

Use of this product may cause exposure to chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

Introduction

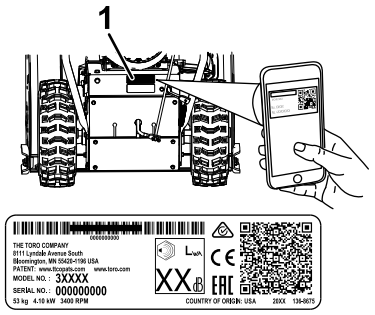
This machine is intended to be used by residential homeowners. It is designed primarily for removing snow from paved surfaces, such as driveways and sidewalks, and other surfaces for traffic on residential or commercial properties. It is not designed for removing materials other than snow. Using this product for purposes other than its intended use could prove dangerous to you and bystanders.

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.

Visit 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 machine 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 mobile device, you can scan the QR code on the serial number decal (if equipped) to access warranty, parts, and other product information.**



g292839

Figure 1

1. Model and serial number location

Model No. _____

Serial No. _____

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Safety-Alert Symbol

The safety-alert symbol (Figure 2) shown in this manual and on the machine identifies important safety messages that you must follow to prevent accidents.



g000502

Figure 2
Safety-alert symbol

The safety-alert symbol appears above information that alerts you to unsafe actions or situations and is followed by the word **DANGER**, **WARNING**, or **CAUTION**.

DANGER indicates an imminently hazardous situation which, if not avoided, **will** result in death or serious injury.

WARNING indicates a potentially hazardous situation which, if not avoided, **could** result in death or serious injury.

CAUTION indicates a potentially hazardous situation which, if not avoided, **may** result in minor or moderate injury.

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

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Safety

General Safety

This product is capable of amputating hands and feet and of throwing objects. Always follow all safety instructions to avoid serious personal injury.

- 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 it, knows how to shut off the engine quickly, and understands the warnings.
- Shut off the engine whenever you leave the operating position for any reason.
- Do not put your hands or feet near moving parts on the machine.
- Do not operate the machine without all guards and other safety protective devices in place and working.
- Keep clear of any discharge opening. Keep bystanders, especially small children, out of the operating area.
- Never allow children to operate the machine.

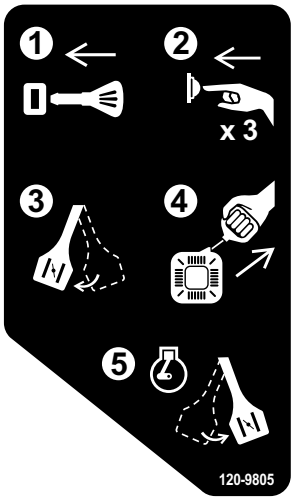
Safety and Instructional Decals

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.



decal133-8061

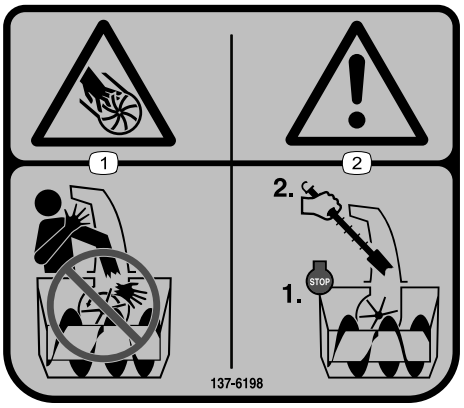
133-8061



decal120-9805

120-9805

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.



decal137-6198

137-6198

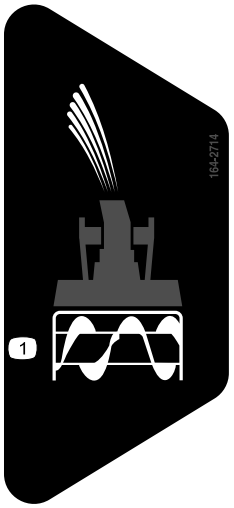
1. Cutting/dismemberment hazard of the fingers or hand, impeller—do not place your hand in the chute.
2. Warning—shut off the engine before using the tool to clear the chute.



decal164-2713

164-2713

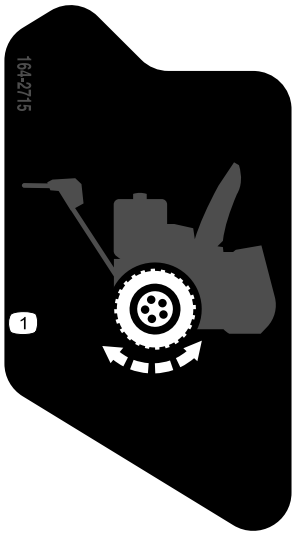
1. Warning—read the *Operator's Manual*.
2. Cutting/dismemberment hazard of hands, impeller and auger—do not place your hand in the chute; shut off the engine before using the tool to clear the chute.
3. Thrown object hazard—keep bystanders away.
4. Cutting/dismemberment hazard of hands, impeller and auger—keep away from moving parts; keep all guards and shields in place; remove the key from the ignition before servicing the machine.



decal164-2714

164-2714

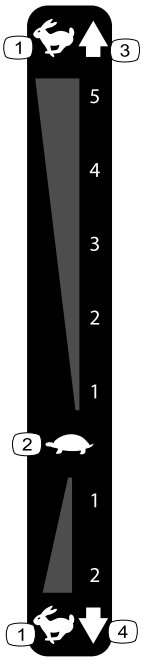
1. Engage auger/impeller drive



decal164-2715

164-2715

1. Engage traction drive



decal164-2717

164-2717

1. Fast
2. Slow
3. Forward
4. Rearward

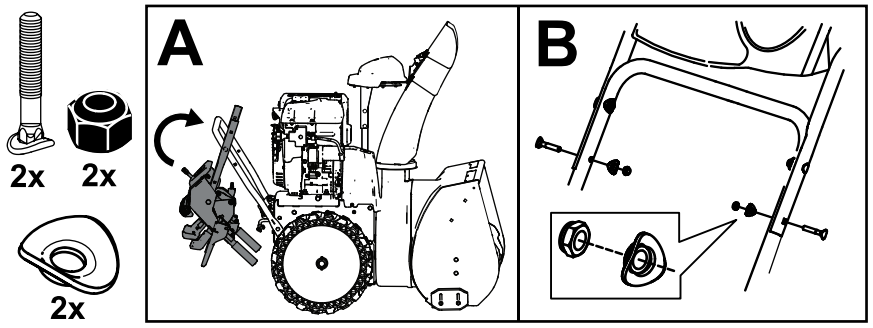
Setup

1

Installing the Upper Handle

No Parts Required

Procedure



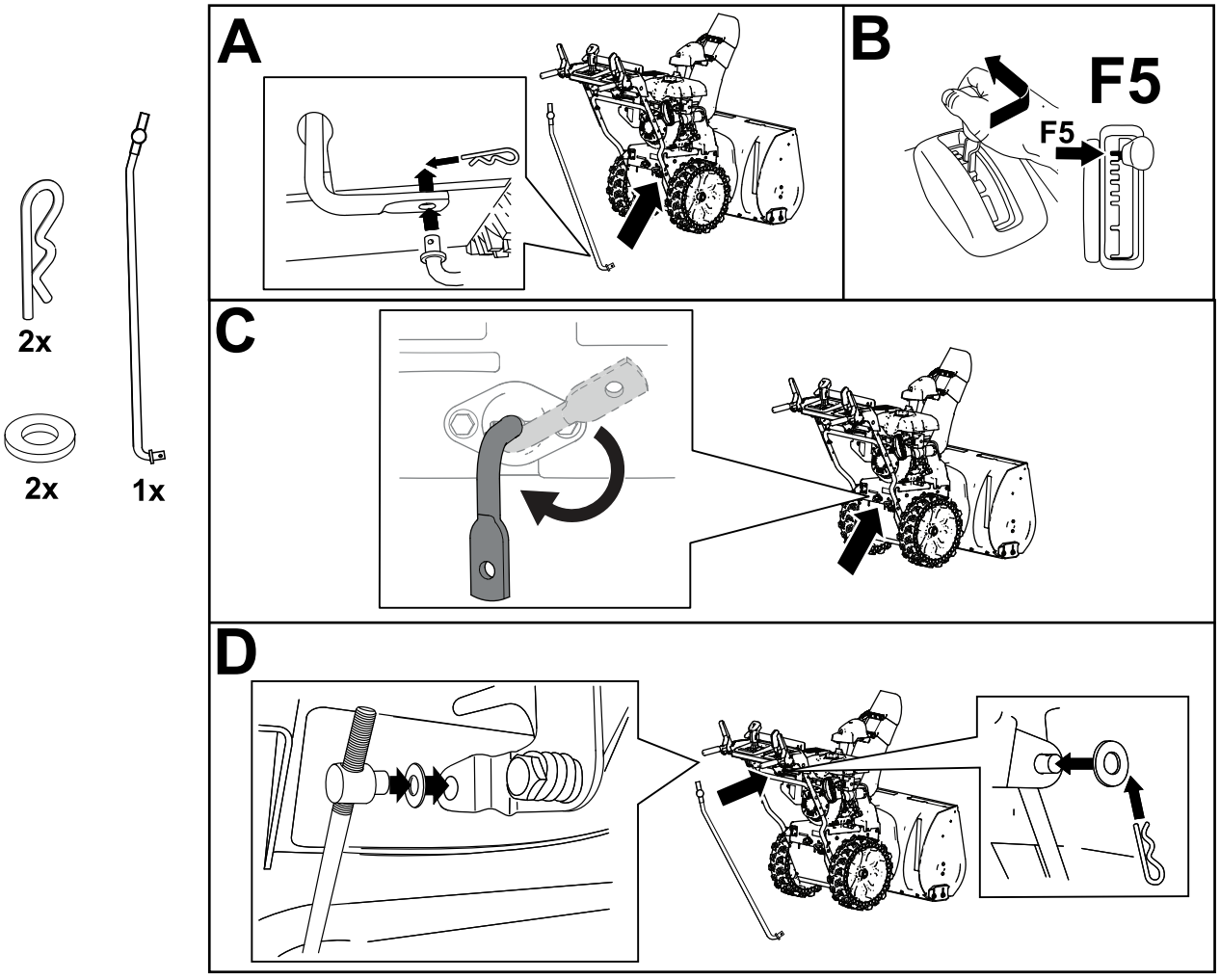
g594269

2

Installing the Traction-Control Linkage

No Parts Required

Procedure



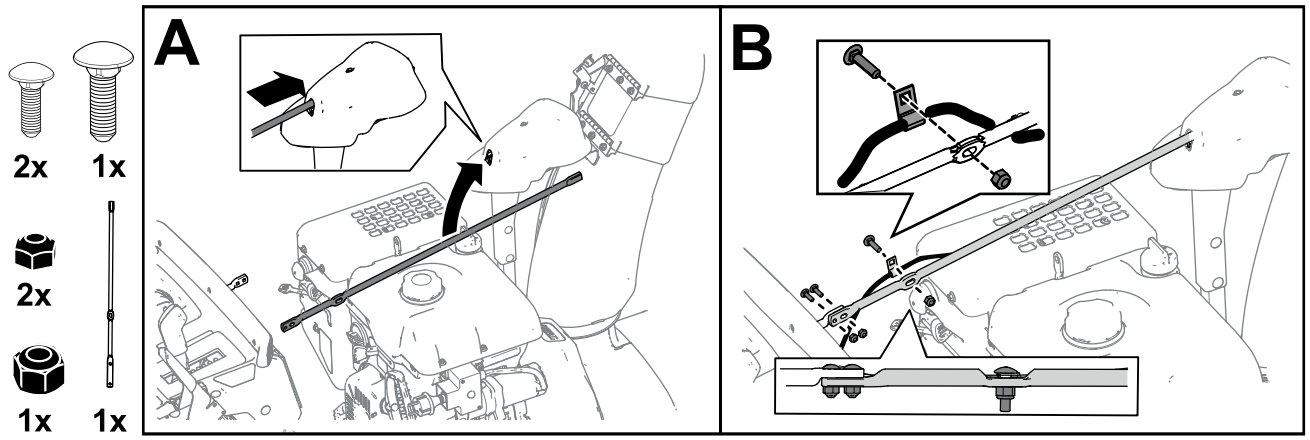
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3

Installing the Chute-Control Rod

No Parts Required

Procedure



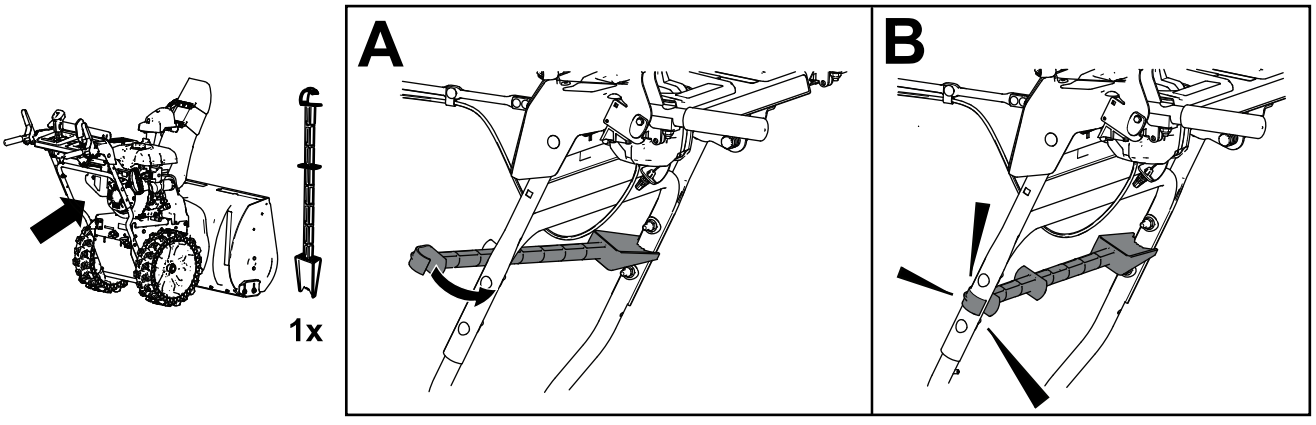
g593237

4

Installing the Snow-Cleanout Tool

No Parts Required

Procedure



g593271

5

Checking the Engine-Oil Level

No Parts Required

Procedure

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 22).

6

Checking the Skids and Scraper

No Parts Required

Procedure

Refer to Checking and Adjusting the Skids and Scraper (page 22).

7

Checking the Operation of the Traction Drive

No Parts Required

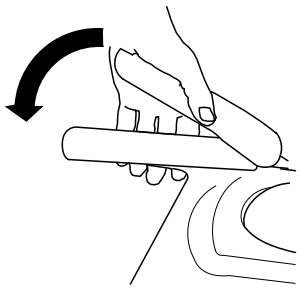
Procedure

⚠ 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 14).
2. Move the speed selector to Position R1; refer to Operating the Speed Selector (page 18).
3. Squeeze the left (traction) lever to the handgrip (Figure 8).



g594272

Figure 8

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 18).
6. Squeeze the left (traction) lever to the handgrip (Figure 8).

   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 23) or take the machine to an Authorized Service Dealer for service.**

Product Overview

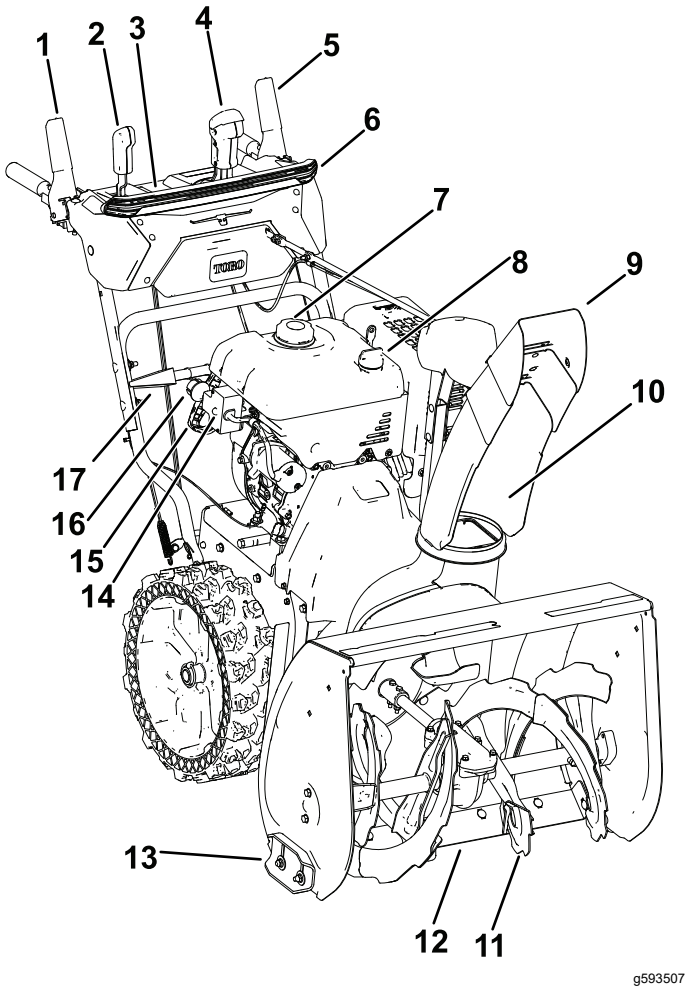


Figure 9

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

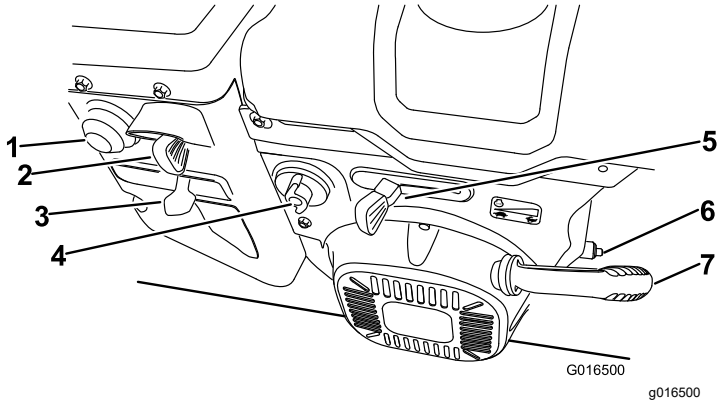


Figure 10

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

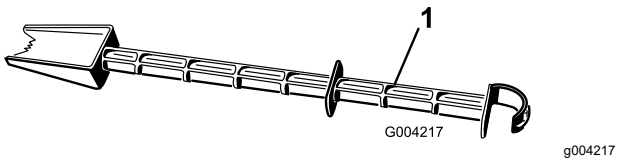


Figure 11

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

Specifications

Model	Weight	Length	Width	Height
39962	132 kg (291 lb)	160 cm (63 inches)	80 cm (31.5 inches)	113 cm (44.5 inches)

Attachments/Accessories

A selection of Toro approved attachments and accessories is available for use with the machine to enhance and expand its capabilities. Contact your Authorized Service Dealer or authorized Toro distributor or go to www.Toro.com for a list of all approved attachments and accessories.

To ensure optimum performance and continued safety certification of the machine, use only genuine Toro replacement parts and accessories.

Operation

Note: Determine the left and right sides of the machine from the normal operating position.

Before Operation

Before Operation Safety

General Safety

- **For electric-start models only:** Use extension cords and receptacles as specified in the manual. Inspect the electrical cord before plugging it into a power source. If the cord is damaged, replace it. Unplug the power cord whenever you are not starting the machine.
- Wear appropriate clothing, including eye protection; long pants; substantial, slip-resistant footwear; and hearing protection. Tie back long hair, secure loose clothing, and do not wear loose jewelry.
- 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.
- Adjust the collector housing height to clear a gravel or crushed-rock surface.

Fuel Safety

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

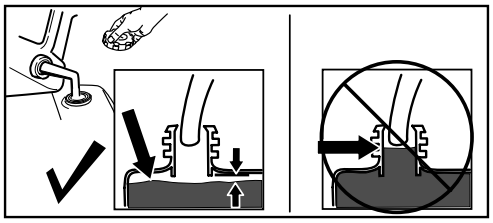
- To prevent a static charge from igniting the fuel, place the container and/or machine on the ground before filling, not in a vehicle or on an object.
- Fill the fuel tank outdoors when the engine is cold. Replace the fuel cap securely and wipe up spills.
- Do not handle fuel when smoking or around an open flame or sparks.
- Store fuel in an approved fuel container, out of the reach of children.
- When fuel is in the tank, tip the machine only as directed in the instructions.
- If you spill fuel on your clothing, change your clothing immediately.

Filling the Fuel Tank

Type	Unleaded gasoline
Minimum octane rating	87 (US) or 91 (research octane; outside the US)
Ethanol	No more than 10% by volume
Methanol	None
MTBE (methyl tertiary butyl ether)	Less than 15% by volume
Oil	Do not add to the fuel

Use only clean, fresh (no more than 30 days old), fuel from a reputable source.

Fill the fuel tank as shown in the following figure; do not fill above the bottom of the fuel tank neck.



g216203

Figure 12

Important: **For best results, purchase only the quantity of fuel that you expect to use in 30 days. Otherwise, add fuel stabilizer/conditioner to fresh fuel as directed by the fuel-stabilizer/conditioner manufacturer.**

During Operation

During Operation Safety

General Safety

- **Shut off the engine before unclogging the machine and always use a stick or the snow-cleanout tool (if provided).**
- 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.
- Use your full attention while operating the machine. Do not engage in any activity that causes distractions; otherwise, injury or property damage may occur.
- Exercise caution to avoid slipping or falling, especially when operating the machine in reverse.
- Always be sure of your footing, and keep a firm hold on the handles. Walk; never run.
- Exercise extreme caution when operating the machine on a slope.
- Do not operate the machine without good visibility or light.
- Look behind and use care when backing up the machine.
- When not actively clearing snow, disengage power to the auger.
- Exercise extreme caution when operating the machine 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, except as directed in the instructions.
- After striking a foreign object, shut off the engine, remove the key, and inspect the machine for damage. Repair any damage before starting the machine.
- If the machine starts to vibrate abnormally, shut off the engine and check immediately for the cause.
- Do not run the engine indoors; exhaust fumes are dangerous.
- Do not overload the machine capacity by attempting to clear snow at too fast a rate.
- Disengage all clutches and shift into neutral before starting the engine.
- Shut off the engine whenever you leave the operating position, before clearing or unclogging the collector, impeller, or discharge chute, and when making any repairs, adjustments, or inspections.
- Never operate the machine at high transport speeds on slippery surfaces.

Starting the Engine

Electric Start

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 15 m (50 ft).

⚠ WARNING

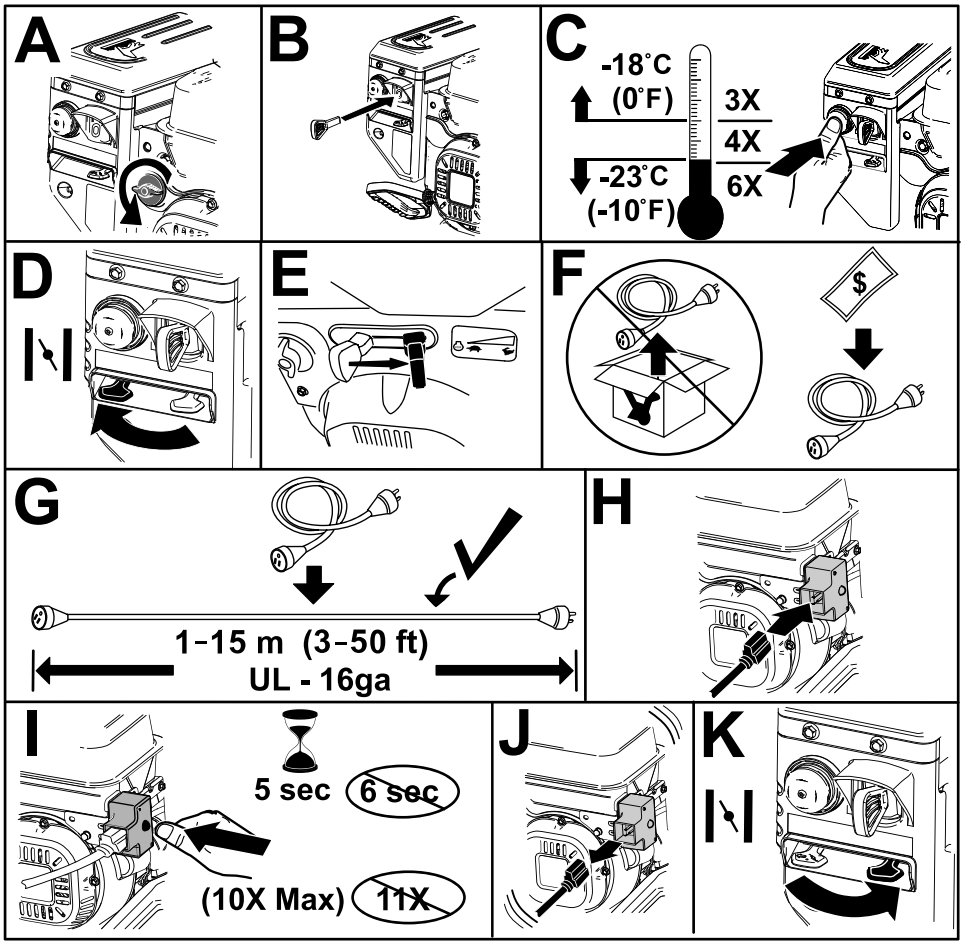
The electrical cord can become damaged, causing a shock or fire.

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.

⚠ CAUTION

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

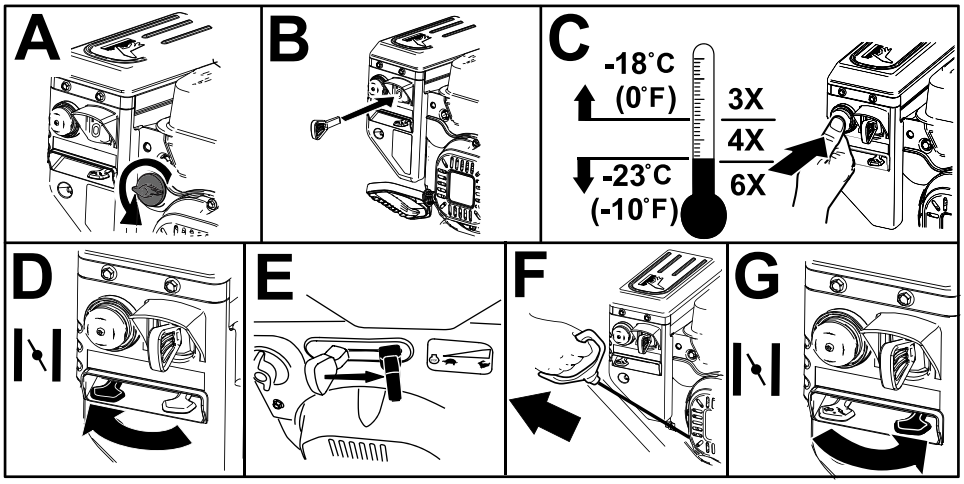
Unplug the power cord whenever you are not starting the machine.



g322740

Figure 13

Recoil Start

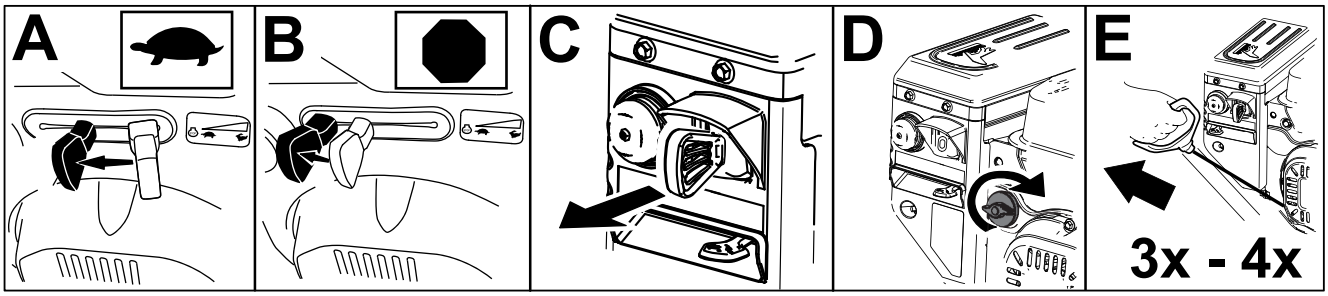


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Figure 14

Shutting Off the Engine

Important: **Wait for all moving parts to stop before leaving the operating position.**

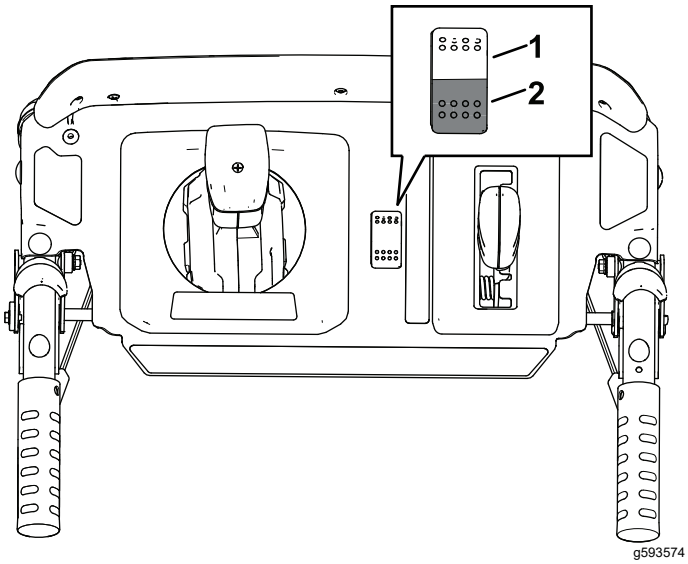


g252411

Figure 15

Operating the Handwarmers

Operate the handwarmers as shown in the following figure.



g593574

Figure 16

1. ON position
2. OFF position

Operating the Traction Drive

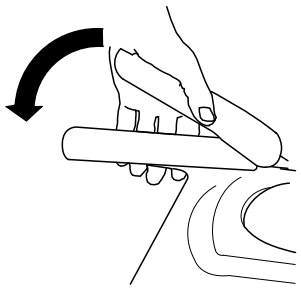
⚠ CAUTION

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 and Adjusting the Traction Cable (page 23) 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 23) 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 17).



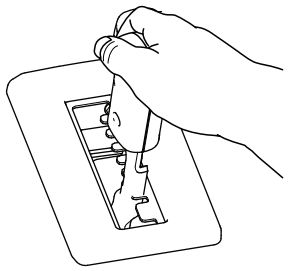
g594272

Figure 17

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 18). The lever locks in a notch at each speed selection.

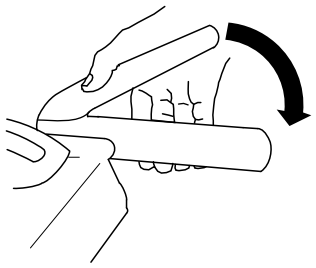


g595156

Figure 18

Operating the Auger/Impeller Drive

1. To engage the auger/impeller drive, squeeze the right (auger/impeller) lever to the handgrip (Figure 19).



g595157

Figure 19

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 23) and adjust it if necessary. Otherwise, take the machine to an Authorized Service Dealer for service.

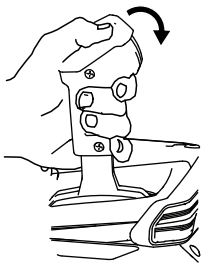
⚠ WARNING

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 20).

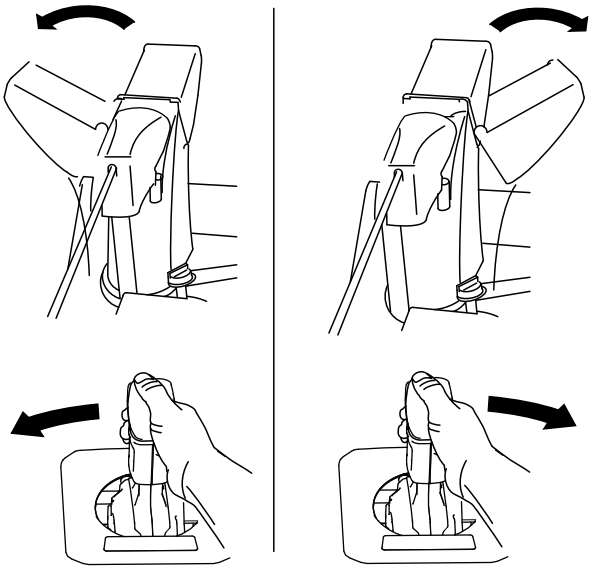


g595168

Figure 20

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 21).



g595229

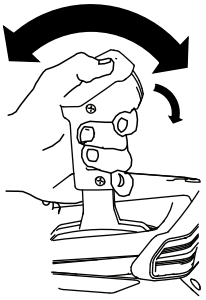
Figure 21

- If the chute does not move, refer to Checking and Adjusting the Auger/Impeller Cable (page 23).

- 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.
- If the chute does not lock into place when you release the trigger cap, refer to Checking and Adjusting the Auger/Impeller Cable (page 23).

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 22).



g595230

Figure 22

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 11).**

  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 22).**

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 19). Use the snow-cleanout tool (Figure 12), 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

General 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 the machine in any enclosure.
- When storing the machine for more than 30 days, refer to Storage (page 28) for important information.
- Run the machine a few minutes after throwing snow to prevent freeze-up of the collector and impeller.

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 50 hours	• Change the engine oil. Change the engine oil every 25 operating hours when operating the engine under a heavy load.
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. • Lubricate the hex shaft.
Yearly or before storage	• 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.

Maintenance Safety

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

- Shut off the engine, remove the key, and wait for all movement to stop before you leave the operator's position. Allow the machine to cool before adjusting, servicing, cleaning, or storing it.
- Always wear eye protection while performing an adjustment or repair to protect your eyes from foreign objects that the machine may throw.
- 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.

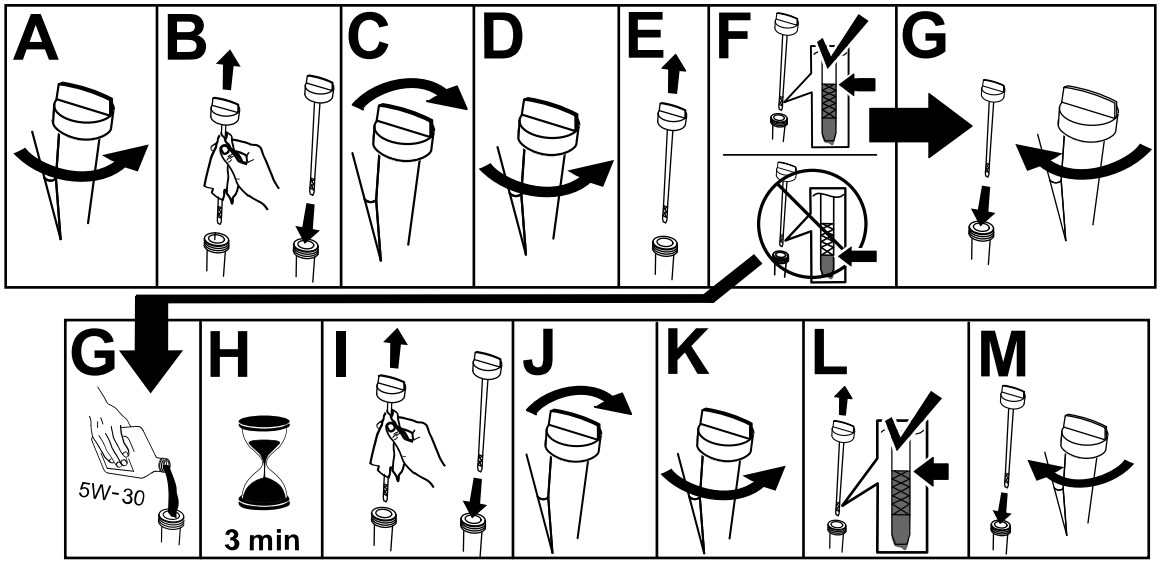
  Purchase only genuine Toro replacement parts and accessories.

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 26).

Checking the Engine-Oil Level

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



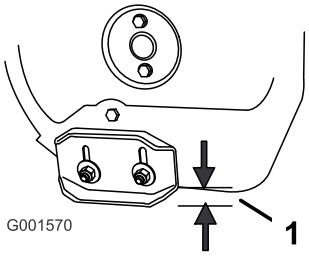
g257528

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. Loosen the nuts that secure both skids to the auger sides until the skids slide up and down easily.



g001570

Figure 24

1. 3 mm (1/8 inch)

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

2. 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.

3. Move the skids down until they are even with the ground.
4. 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.

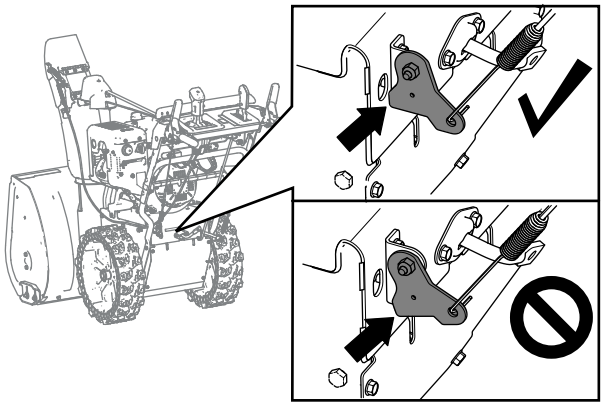
Checking and Adjusting the Traction Cable

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.

With the traction lever disengaged, ensure that the bottom of the traction-cable bracket is touching the frame of the machine (Figure 23).



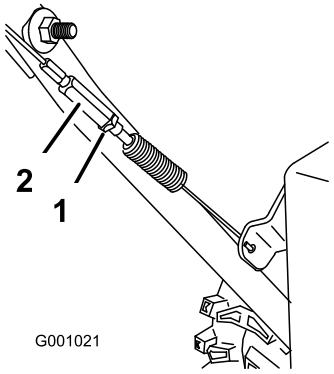
g593361

Figure 25

If the bottom of the traction-cable bracket is not touching the frame of the machine, the left (traction) cable is not properly adjusted.

To adjust the traction cable, do the following:

1. Loosen the jam nut.
2. Loosen or tighten the turnbuckle to until the cable is taught and the bottom of the bracket touches the frame of the machine.
3. Tighten the jam nut (Figure 26).



g001021

Figure 26

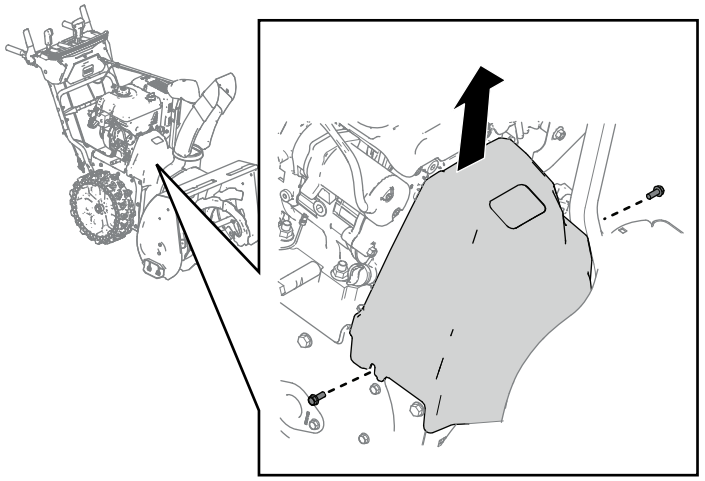
1. Jam nut
2. Turnbuckle

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.

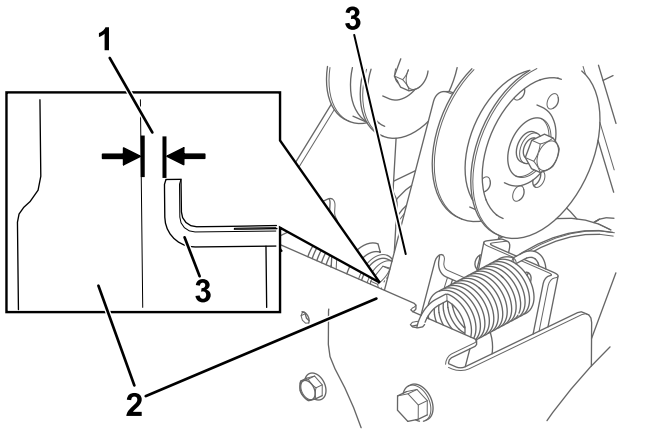
1. Remove the belt cover by removing the 2 screws as shown in the following figure.



g593373

Figure 27

2. With the auger/impeller lever disengaged, ensure that the gap between the auger clutch arm and the frame of the machine is 1.5 mm (1/16 inch) as shown in the following figure.

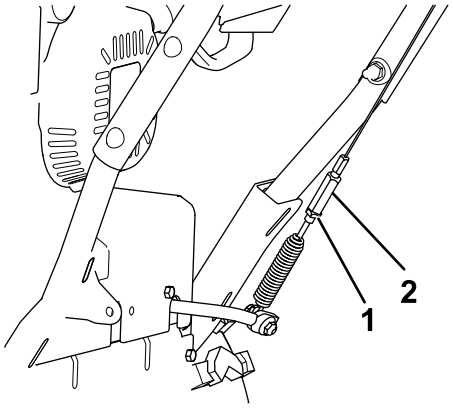


g260108

Figure 28

1. 1.5 mm (1/16 inch)
2. Frame
3. Auger clutch arm

3. If the auger/impeller cable is not properly adjusted, do the following steps:
   A. Loosen the jam nut as shown in the following figure.



g322960

Figure 29

1. Jam nut
2. Turnbuckle

B. Loosen or tighten the turnbuckle that adjusts the tension on the cable (Figure 29).

C. Adjust the turnbuckle until you obtain the proper gap.

D. Tighten the jam nut.

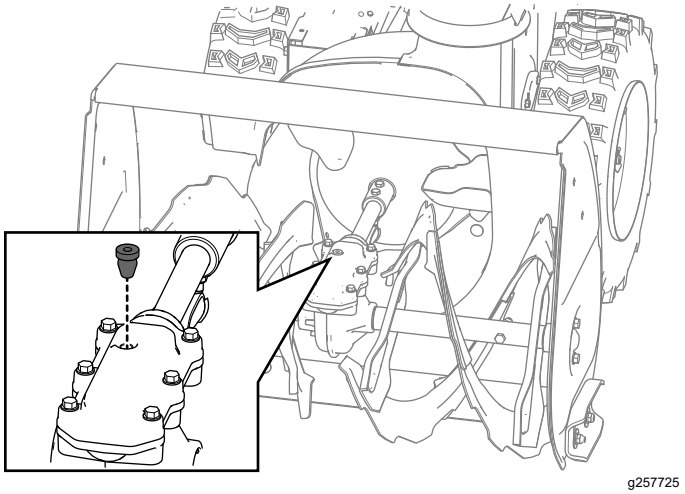
4. Install the belt cover and secure it with the 2 screws.
5. If the auger/impeller cable is properly adjusted but a problem remains, contact an Authorized Service Dealer.

Checking the Auger-Gearbox-Oil Level

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

1. Move the machine to a level surface.
2. Clean the area around the pipe plug and remove the pipe plug from the gearbox (Figure 30).

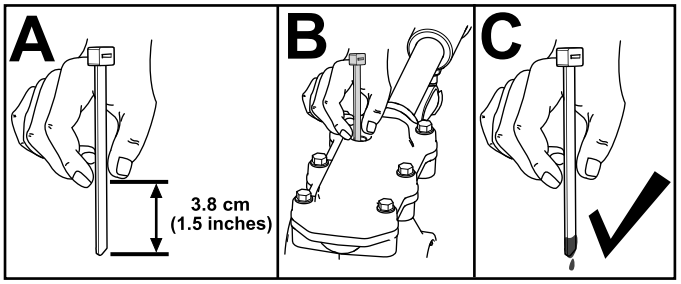
   Note: If needed, use pliers to assist in removing the pipe plug.



g257725

Figure 30

3. Check the oil level using a suitable measuring device, such as a clean cable tie. The oil should be approximately 3.8 cm (1.5 inches) below the filler opening (Figure 31).



g257737

Figure 31

4. If the oil level is low, add GL-5 or GL-6, SAE 85-95 EP gear oil lubricant to the gearbox, then check the oil level again.

   Note: Do not use synthetic oil.

5. Install the pipe plug in the gearbox.

Changing the Engine Oil

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

Every 50 hours—Change the engine oil. Change the engine oil every 25 operating hours when operating the engine under a heavy load.

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	0.95 L (32 fl oz)*
Oil viscosity	Refer to Figure 33.
API service classification	SJ or higher

*There is residual oil in the crankcase after you drain the oil. Do not pour the entire capacity of oil into the crankcase. Fill the crankcase with oil as directed in the following steps.

1. Move the machine to a level surface.
2. Clean the area around the oil-drain cap (Figure 32).

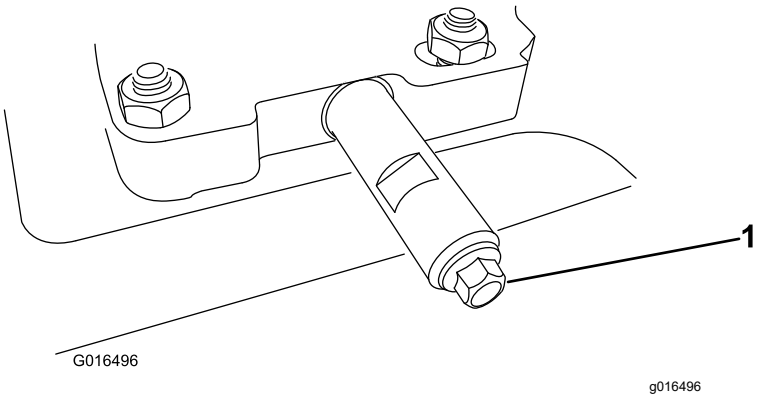


Figure 32

1. Oil-drain cap

3. Slide an oil-drain pan under the drain extension and remove the oil-drain cap.

   Note: When removing the cap, ensure that the tube does not loosen.

4. Drain the oil.

   Note: Dispose of the used oil properly at a local recycling center.

5. Install the oil-drain cap and tighten it securely.
6. Clean around the oil fill/dipstick.
7. Unscrew the dipstick and remove it.
8. Carefully pour about 3/4 of the engine capacity of oil into the oil-fill tube.

   Use Figure 33 to select the best oil viscosity for the outdoor temperature range expected:

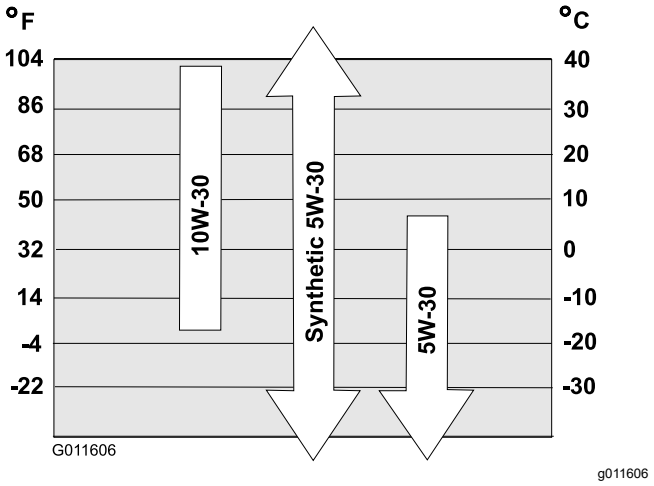


Figure 33

9. Wait 3 minutes for the oil to settle in the engine.
10. Wipe the dipstick clean with a clean cloth.
11. Insert the dipstick into the oil-fill tube and screw it in, then remove the dipstick.
12. Read the oil level on the dipstick.
    - If the oil level on the dipstick is too low, carefully pour a small amount of oil into the oil-fill tube, wait 3 minutes, and repeat steps 10 through 12 until the oil level on the dipstick is correct.
    - If the oil level on the dipstick is too high, drain the excess oil until the oil level on the dipstick is correct.

    Important: **If the oil level in the engine is too low or too high and you run the engine, you may damage the engine.**
13. Install the dipstick into the oil-fill tube securely.
14. Recycle the used oil properly.

Lubricating the Hex Shaft

Service Interval: Yearly—Lubricate the hex shaft.

Lightly lubricate the hex shaft yearly with automotive engine oil (Figure 34).

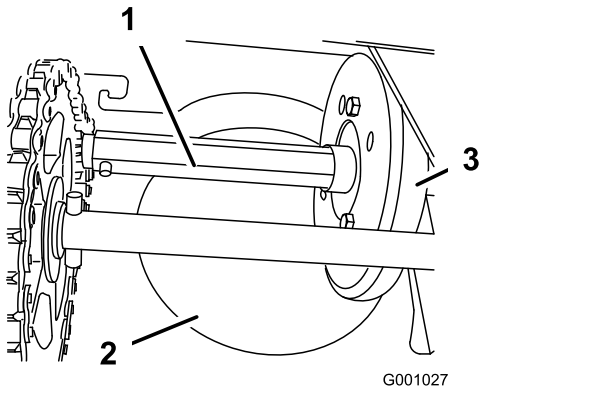


Figure 34

1. Hex shaft
2. Aluminum friction plate
3. Rubber wheel

Important: **Do not get oil on the rubber wheel or the aluminum friction drive plate because the traction drive will slip (Figure 34).**

1. Drain the fuel from the fuel tank.
2. Tip the machine forward onto its auger housing and block it so that it cannot fall.
3. Remove the back cover (Figure 35).

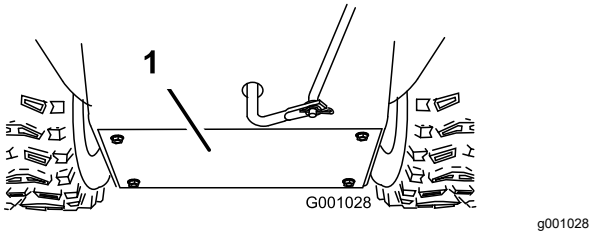


Figure 35

1. Back cover

4. Move the speed-selector lever to Position R2.
5. Dip your finger in automotive engine oil and **lightly** lubricate hex shaft.
6. Move the speed-selector lever to Position 6.
7. Lubricate the other end of the hex shaft.
8. Move the speed-selector lever forward and rearward a few times.
9. 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).

1. Remove the boot (Figure 36).

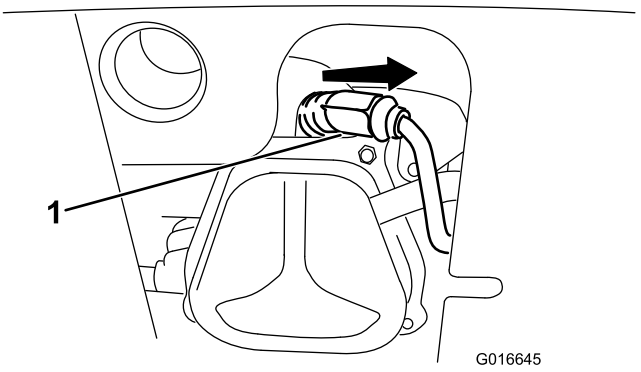


Figure 36

1. Spark-plug boot

2. Clean around the base of the spark plug.

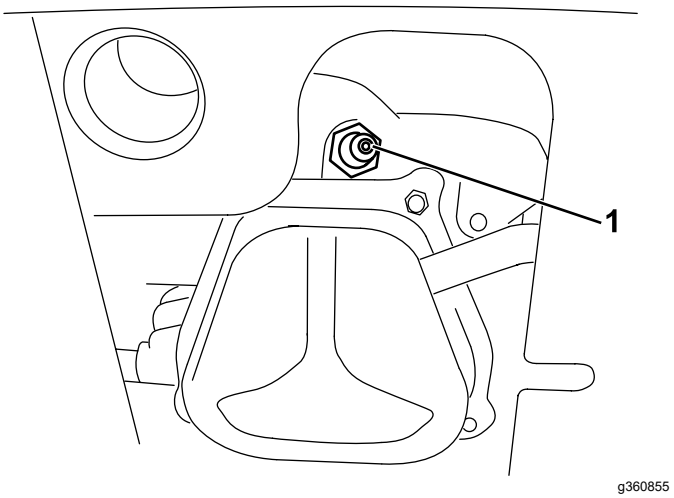


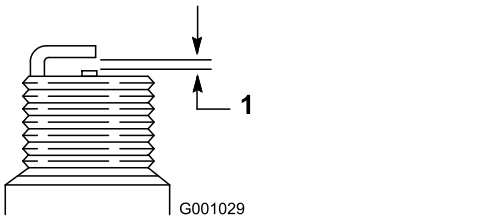
Figure 37

1. Spark-plug base

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 38.



g001029

Figure 38

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.

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.

Storage

Storage Safety

- Shut off the engine, remove the key, and wait for all movement to stop before you leave the operator's position. Allow the machine to cool before adjusting, servicing, cleaning, or storing it.
- Fuel fumes are highly flammable, explosive, and dangerous if inhaled. If you store the product in an area with an open flame, the fuel fumes may ignite and cause an explosion.
- Do not store the machine in a house (living area), basement, or any other area where ignition sources may be present, such as hot water and space heaters, clothes dryers, furnaces, and other appliances.
- Do not tip the machine either forward or backward with fuel in the fuel tank; otherwise, fuel may leak out of the machine.
- Do not store the machine with its handle tipped down onto the ground; otherwise, oil may leak into the engine cylinder and onto the ground, and the engine may not start.

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 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 21).

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. 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. 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.

California Proposition 65 Warning Information

What is this warning?

You may see a product for sale that has a warning label like the following:



WARNING: Cancer and Reproductive Harm—www.p65Warnings.ca.gov.

What is Prop 65?

Prop 65 applies to any company operating in California, selling products in California, or manufacturing products that may be sold in or brought into California. It mandates that the Governor of California maintain and publish a list of chemicals known to cause cancer, birth defects, and/or other reproductive harm. The list, which is updated annually, includes hundreds of chemicals found in many everyday items. The purpose of Prop 65 is to inform the public about exposure to these chemicals.

Prop 65 does not ban the sale of products containing these chemicals but instead requires warnings on any product, product packaging, or literature with the product. Moreover, a Prop 65 warning does not mean that a product is in violation of any product safety standards or requirements. In fact, the California government has clarified that a Prop 65 warning "is not the same as a regulatory decision that a product is 'safe' or 'unsafe.'" Many of these chemicals have been used in everyday products for years without documented harm. For more information, go to https://oag.ca.gov/prop65/faqs-view-all.

A Prop 65 warning means that a company has either (1) evaluated the exposure and has concluded that it exceeds the "no significant risk level"; or (2) has chosen to provide a warning based on its understanding about the presence of a listed chemical without attempting to evaluate the exposure.

Does this law apply everywhere?

Prop 65 warnings are required under California law only. These warnings are seen throughout California in a wide range of settings, including but not limited to restaurants, grocery stores, hotels, schools, and hospitals, and on a wide variety of products. Additionally, some online and mail order retailers provide Prop 65 warnings on their websites or in catalogs.

How do the California warnings compare to federal limits?

Prop 65 standards are often more stringent than federal and international standards. There are various substances that require a Prop 65 warning at levels that are far lower than federal action limits. For example, the Prop 65 standard for warnings for lead is 0.5 µg/day, which is well below the federal and international standards.

Why don't all similar products carry the warning?

- Products sold in California require Prop 65 labelling while similar products sold elsewhere do not.
- A company involved in a Prop 65 lawsuit reaching a settlement may be required to use Prop 65 warnings for its products, but other companies making similar products may have no such requirement.
- The enforcement of Prop 65 is inconsistent.
- Companies may elect not to provide warnings because they conclude that they are not required to do so under Prop 65; a lack of warnings for a product does not mean that the product is free of listed chemicals at similar levels.

Why does Toro include this warning?

Toro has chosen to provide consumers with as much information as possible so that they can make informed decisions about the products they buy and use. Toro provides warnings in certain cases based on its knowledge of the presence of one or more listed chemicals without evaluating the level of exposure, as not all the listed chemicals provide exposure limit requirements. While the exposure from Toro products may be negligible or well within the "no significant risk" range, out of an abundance of caution, Toro has elected to provide the Prop 65 warnings. Moreover, if Toro does not provide these warnings, it could be sued by the State of California or by private parties seeking to enforce Prop 65 and subject to substantial penalties.



Count on it.