



722 Power Throw® Snowthrower

Model No. 38608—Serial No. 311000001 and Up

Operator's Manual

Introduction

This machine is intended to be used by residential homeowners or professional, hired operators. 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, nor is it designed for clearing off gravel surfaces.

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

You may contact Toro directly at www.Toro.com for machine and accessory information, help finding a dealer, or to register your machine.

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.

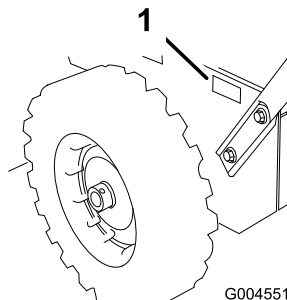


Figure 1

1. Model and serial number location

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

1. Safety alert symbol

This manual uses 2 words to highlight information.

Important calls attention to special mechanical information and **Note** emphasizes general information worthy of special attention.

Replacement Engine Owner's Manuals may be ordered through the engine manufacturer.

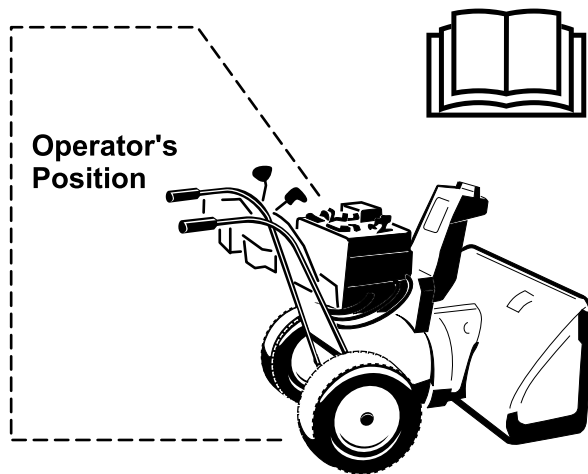
Model No. _____

Serial No. _____

Safety

Before Operating

- Read and understand the contents of this manual before operating the snowthrower.
- Become familiar with all controls and know how to stop the engine quickly.



Caution: Improper use may result in loss of fingers, hands, or feet.



The low-speed auger has a moving pinch point close to the opening.

This machine meets or exceeds the B71.3 specifications of the American National Standards Institute in effect at the time of production.

Read and understand the contents of this manual before you start the engine.

▲This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

Improperly using or maintaining this machine could result in injury or death. To reduce this potential, comply with the following safety instructions.

This machine is capable of amputating hands and feet and of throwing objects. Failure to observe the following safety instructions could result in serious injury.

Training

- Read, understand and follow all instructions on the machine and in the manual(s) before operating this machine. Be thoroughly familiar with the controls and the proper use of the machine. Know how to stop the machine and disengage the controls quickly.
- Never allow children to operate the machine. Never allow adults to operate the machine without proper instruction.

- Keep the area of operation clear of all persons, particularly small children.
- Exercise caution to avoid slipping or falling, especially when operating the machine in reverse.

Preparation

- Thoroughly inspect the area where the machine is to be used and remove all doormats, sleds, boards, wires, and other foreign objects.
- Disengage all clutches and shift into neutral before starting the engine.
- Do not operate the machine without wearing adequate winter garments. Avoid loose fitting clothing that can get caught in moving parts. Wear footwear that will improve footing on slippery surfaces.
- Handle fuel with care; it is highly flammable.
 - Use an approved fuel container.
 - Never add fuel to a running engine or hot engine.
 - Fill fuel tank outdoors with extreme care. Never fill fuel tank indoors.
 - Never fill containers inside a vehicle or on a truck or trailer bed with a plastic liner. Always place containers on the ground, away from your vehicle, before filling.

- When practical, remove gas-powered machine from the truck or trailer and refuel it on the ground. If this is not possible, then refuel such machine on a trailer with a portable container, rather than from a gasoline dispenser nozzle.
- Keep the nozzle in contact with the rim of the fuel tank or container opening at all times, until refueling is complete. Do not use a nozzle lock-open device.
- Replace gasoline cap securely and wipe up spilled fuel.
- If fuel is spilled on clothing, change clothing immediately.
- Use extension cords and receptacles as specified by the manufacturer for all machines with electric starting motors.
- Adjust the collector housing height to clear gravel or crushed rock surface.
- Never attempt to make any adjustments while the engine is running (except when specifically recommended by manufacturer).
- Always wear safety glasses or eye shields during operation or while performing an adjustment or repair to protect eyes from foreign objects that may be thrown from the machine.
- Do not run the engine indoors, except when starting the engine and for transporting the machine in or out of the building. Open the outside doors; exhaust fumes are dangerous.
- Exercise extreme caution when operating on slopes.
- Never operate the machine without proper guards, and other safety protective devices in place and working.
- Never direct the discharge toward people or areas where property damage can occur. Keep children and others away.
- Do not overload the machine capacity by attempting to clear snow at too fast a rate.
- Never operate the machine at high transport speeds on slippery surfaces. Look behind and use care when operating in reverse.
- Disengage power to the auger/impeller when the machine is transported or not in use.
- Use only attachments and accessories approved by the manufacturer of the machine (such as wheel weights, counterweights, or cabs).
- Never operate the machine without good visibility or light. Always be sure of your footing, and keep a firm hold on the handles. Walk; never run.
- Never touch a hot engine or muffler.

Operation

- Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.
- Exercise extreme caution when operating on or crossing gravel drives, walks, or roads. Stay alert for hidden hazards or traffic.
- After striking a foreign object, stop the engine, remove the wire from the spark plug, thoroughly inspect the machine for any damage, and repair the damage before restarting and operating the machine.
- If the machine should start to vibrate abnormally, stop the engine and check immediately for the cause. Vibration is generally a warning of trouble.
- Stop the engine whenever you leave the operating position, before unclogging the auger/impeller housing or discharge chute, and when making any repairs, adjustments or inspections.
- When cleaning, repairing or inspecting the machine, stop the engine and make certain the auger/impeller and all moving parts have stopped. Disconnect the spark plug wire and keep the wire away from the plug to prevent someone from accidentally starting the engine.

Clearing a Clogged Discharge Chute

Hand contact with the rotating rotor blades inside the discharge chute is the most common cause of injury associated with snowthrowers. Never use your hand to clean out the discharge chute.

To clear the chute:

- **Shut the engine off!**
- Wait 10 seconds to be sure the impeller blades have stopped rotating.
- Always use a clean-out tool, not your hands.

Maintenance and Storage

- Check all fasteners at frequent intervals for proper tightness to be sure the machine is in safe working condition.
- 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.
- Always refer to the *Operator's Manual* for important details if the machine is to be stored for an extended period.
- Maintain or replace safety and instruction labels, as necessary.
- Run the machine a few minutes after throwing snow to prevent freeze-up of the auger/impeller blades.

Toro Snowthrower Safety

The following list contains safety information specific to Toro products or other safety information that you must know.

- **Rotating auger/impeller can cut off or injure fingers or hands.** 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.**
- Before adjusting, cleaning, inspecting, troubleshooting, or repairing the machine, **stop the engine, remove the ignition key, and wait for all moving parts to stop. Disconnect the wire from the spark plug and keep it away from the spark plug to prevent someone from accidentally starting the engine.**
- **Before** leaving the operating position, stop the engine, remove the ignition key, and wait for all moving parts to stop.
- To unclog the discharge chute, stay in the operating position and release the left hand (traction) lever. While running the auger/impeller, push down on the handles to raise the front of the machine a few inches (centimeters) 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, **stop the engine, wait for all moving parts to stop, and use the clean-out tool; never use your hand.**

- If a shield, safety device, or decal is damaged, illegible, or lost, repair or replace it before beginning operation.
- **Do not** smoke while handling gasoline.
- **Do not** use the machine on a roof.
- Do not touch the engine while it is running or soon after it has stopped because the engine may be hot enough to cause a burn.
- Perform only those maintenance instructions described in this manual. Before performing any maintenance, service, or adjustment, stop the engine, remove the ignition key, and disconnect the wire from the spark plug. If major repairs are ever needed, contact an Authorized Service Dealer.
- Do not change the governor settings on the engine.
- When storing the machine for more than 30 days, drain the fuel from the fuel tank to prevent a potential hazard. Store fuel in an approved fuel container. Remove the key from the ignition switch before storing the machine.
- Purchase only genuine Toro replacement parts and accessories.

Safety and Instructional Decals

Important: Safety and instruction decals are located near areas of potential danger. Replace damaged decals.

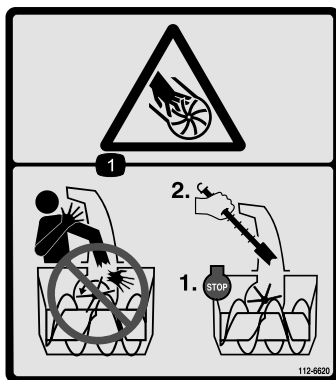


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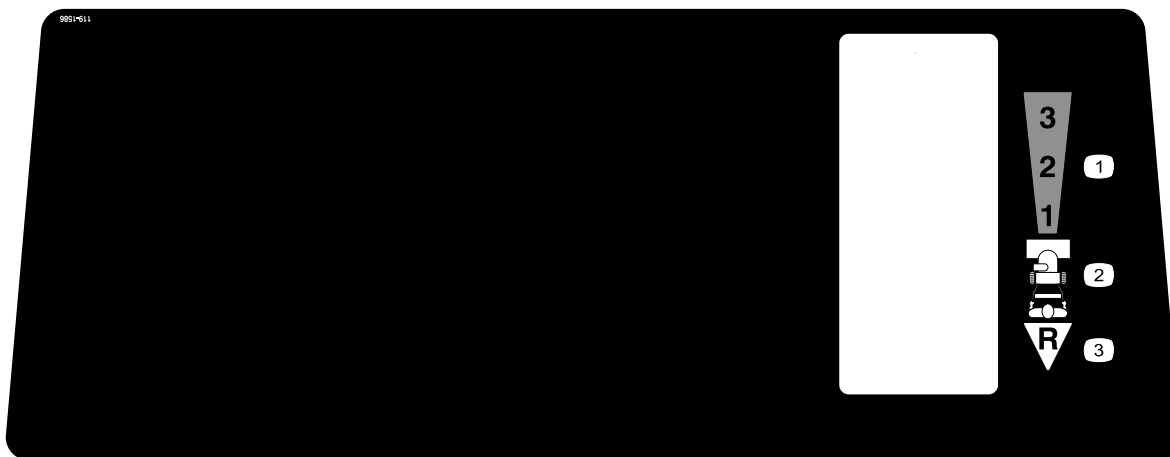
112-6624

- | | | | |
|----------------|--|--|---|
| 1. Wheel drive | 3. Disengage | 5. Thrown object hazard—keep bystanders a safe distance from the snowthrower. | 7. Cutting/dismemberment hazard, impeller—stop the engine and wait for all moving parts to stop before leaving the operator's position. |
| 2. Engage | 4. Warning—read the <i>Operator's Manual</i> . | 6. Cutting/dismemberment hazard, impeller and auger—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. | 8. Auger |



112-6620

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



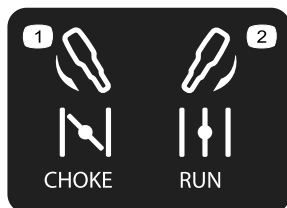
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1. Forward drive speed settings
2. Speed selector
3. Reverse drive speed setting



Briggs Part No. 273676

1. Stop
2. Slow
3. Fast



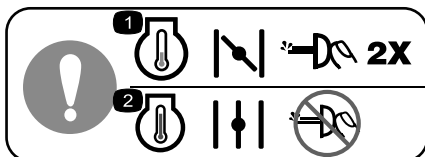
Briggs & Stratton Part No. 275949

1. Choke on (Choke)
2. Choke off (Run)



Briggs Part No. 276925

1. Warning—read the *Operator's Manual*.
2. Warning—fire hazard.
3. Warning—toxic gas inhalation hazard.
4. Warning—hot surface/burn hazard.



Briggs Part No. 277566

1. When starting a cold engine, close the choke and press the primer two times.
2. When starting a warm engine, open the choke and do not press the primer.



Briggs & Stratton Part No. 277588

1. Primer
2. Ignition key in (Engine—Run)
3. Ignition key out (Engine—Stop)



Briggs & Stratton Part No. 278866

1. Fuel—On
2. Fuel—Off

Setup

Loose Parts

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

Procedure	Description	Qty.	Use
1	Handle assembly	1	Install the handle.
	Bolts	4	
	Belleville washers	4	
	Flange nut	1	
2	Speed selector rod	1	Install the speed selector rod.
	Cotter pin	1	
	Flat washer	1	
3	Flange locknut	1	Install the traction rod.
4	Clevis pin	1	Install the auger/impeller drive control linkage.
	Cotter pin	1	
5	Chute control rod assembly (rod and bracket, worm gear, and bracket)	1	Install the chute control rod.
	Belleville washer	1	
	Bolt	2	
	Carriage bolt	1	
	Locknut	3	
	Curved washer	1	
6	No parts required	—	Fill the engine with oil.
7	No parts required	—	Check the tire pressure.
8	No parts required	—	Check the skids and scraper.

1

Note: Save the axle pins so that you can install them in step 8.

Installing the Handle

Parts needed for this procedure:

1	Handle assembly
4	Bolts
4	Belleville washers
1	Flange nut

Procedure

1. Remove the tie straps that secure the control rods to the handle.
2. Remove the axle pins from both wheels and slide the wheels outward on the axle approximately 1 inch (3 cm) (Figure 3).

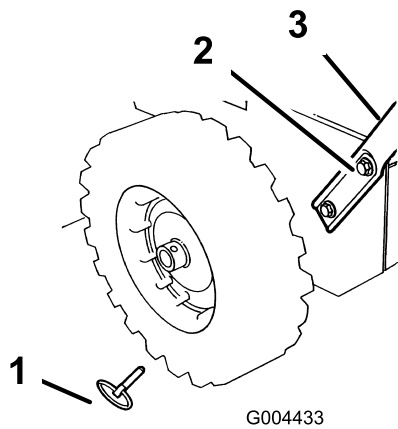


Figure 3

1. Axle pin (2)
2. Cap screw and curved washer (4)
3. Handle

3. Thread a flange nut (not the flange locknut) with the flange down onto the traction rod attached to the left side of the handle (Figure 4).

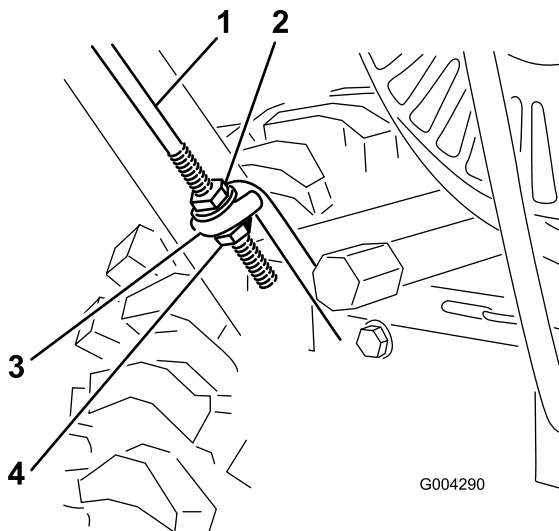


Figure 4

1. Traction rod
2. Flange nut
3. Lower traction rod loop
4. Flange locknut

4. Position the left side of the handle against the side of the machine and insert the end of the traction rod through the lower traction rod loop (Figure 4).
5. Align the holes in the left side of the handle with the holes in the left side plate, and secure the handle with 2 cap screws and Belleville washers until they are finger tight (Figure 3).

Note: The concave side of the Belleville washer goes against the outside of the handle.

6. Align the holes in the right side of the handle with the holes in the right side plate, and secure the handle with 2 cap screws and Belleville washers until they are finger tight.
7. Ensure that the handles are at the same height, then tighten the handle fasteners securely.
8. Slide the wheels outward and insert each axle pin through the hole in each wheel hub and through the **outer** hole of the axle (Figure 5).

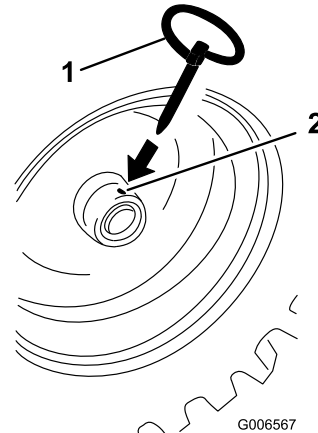


Figure 5

1. Axle pin
2. Hole in wheel hub and outer axle hole aligned

Note: If you install tire chains (optional), you must install the axle pins through the **outer** axle holes.

2

Installing the Speed Selector Rod

Parts needed for this procedure:

1	Speed selector rod
1	Cotter pin
1	Flat washer

Procedure

1. Pull the speed selector arm (Figure 6) to the most outward position.

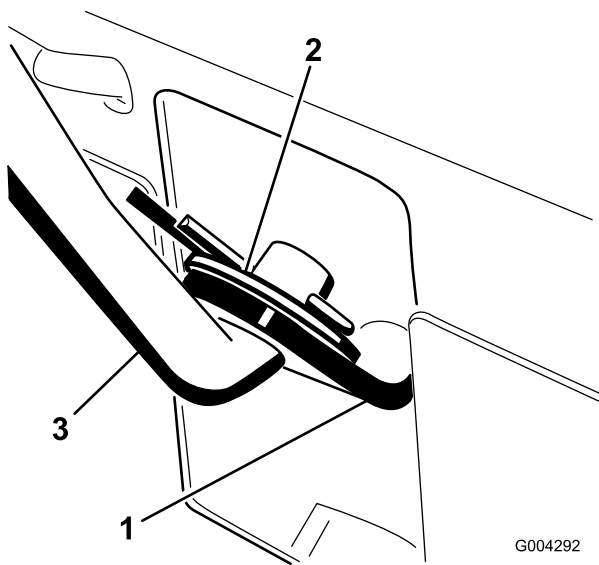


Figure 6

1. Speed selector arm
2. Flat washer and cotter pin
3. Speed selector rod

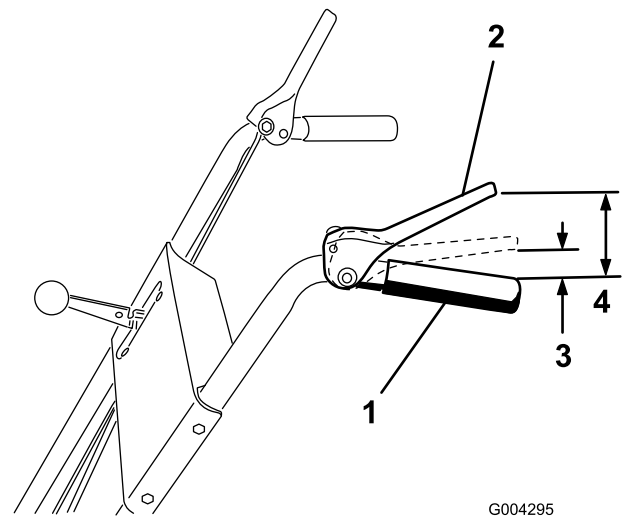


Figure 7

1. Handgrip
2. Traction control lever
3. 1 to 2 inches (3 to 5 cm)
4. 4-1/2 inches (11.4 cm)

2. Move the speed selector lever (Figure 14) on the control panel to the R (Reverse) position.
3. Install the speed selector rod into the speed selector arm, add a flat washer on the selector rod, and secure it with a cotter pin (Figure 6).

3

Installing the Traction Rod

Parts needed for this procedure:

1	Flange locknut
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Procedure

1. Thread the flange locknut (flange side up) onto the bottom of the traction control rod, below the loop in the lower traction rod (Figure 4).
2. Adjust the 2 flange nuts up or down on the traction rod until the distance between the top of the handgrip and the bottom of the traction control lever is approximately 4-1/2 inches (11.4 cm) as shown in Figure 7.

3. Tighten the 2 flange nuts until they are finger tight.
4. Move the speed selector lever (Figure 14) into third gear.

Note: If the speed selector lever does not move into third gear, adjust the speed selector before continuing. Refer to Adjusting the Speed Selector in Maintenance.

5. Slowly pull the machine backward while slowly pressing the traction control lever toward the handgrip.

Note: The adjustment is correct when the wheels stop rolling backward and the distance between the top of the handgrip and the bottom of the traction control lever is 1 to 2 inches (3 to 5 cm) as shown in Figure 7.

6. Adjust the 2 flange nuts, if necessary, to obtain the proper distance between the top of the handgrip and the bottom of the traction control lever.
7. Tighten the flange nuts securely.

4

Installing the Auger/ Impeller Drive Control Linkage

Parts needed for this procedure:

1	Clevis pin
1	Cotter pin

Procedure

1. Loosen the jam nut above the clevis on the upper control rod (Figure 8).

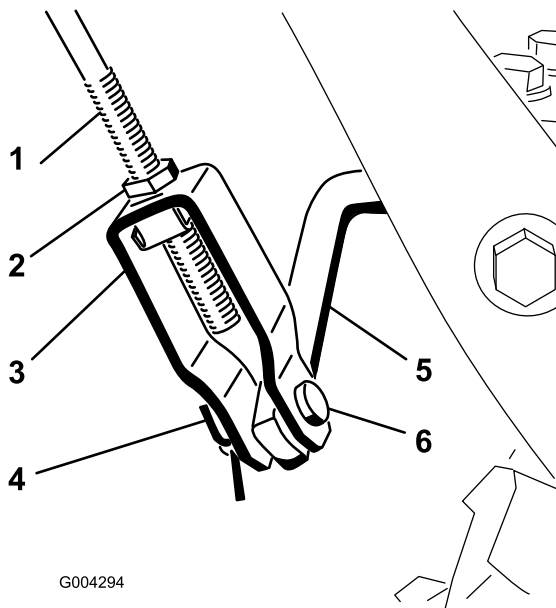


Figure 8

1. Upper control rod
 2. Jam nut
 3. Clevis
 4. Cotter pin
 5. Lower control rod
 6. Clevis pin
2. Align the holes in the clevis and the lower control rod and insert the clevis pin (Figure 8).
 3. Check the distance between the top of the handgrip and the bottom of the auger/impeller drive control lever (Figure 9).

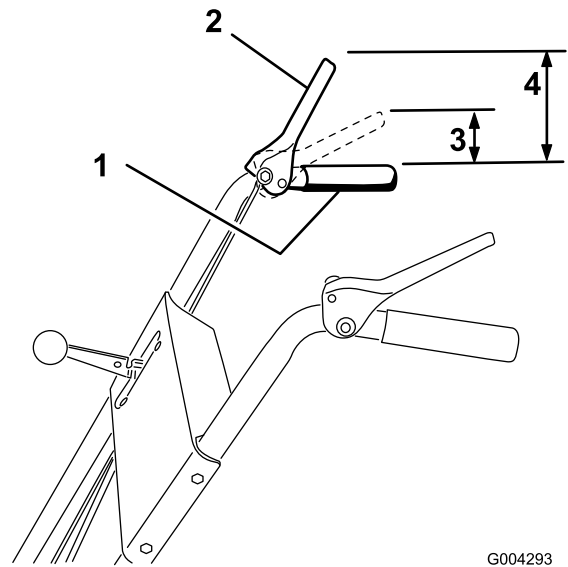


Figure 9

1. Handgrip
2. Auger/impeller control lever
3. 1 to 2 inches (3 to 5 cm)
4. 5 inches (12.7 cm)

Note: The distance should be approximately 5 inches (12.7 cm).

4. Press the auger/impeller drive control lever slowly toward the handgrip.

Note: The amount of force needed to compress the lever increases noticeably when you remove the slack from the auger/impeller drive belt (approximately 1/2 of the lever movement). The adjustment is correct when the force begins to increase and the distance between the top of the handgrip and the bottom of the auger/impeller drive control lever is 1 to 2 inches (3 to 5 cm) as shown in Figure 9.

Note: If the force does not noticeably increase, remove the belt cover (refer to step 2 of Replacing the Traction Drive Belt in Maintenance) and measure 2 inches (5 cm) above the handgrip at the point where you remove the slack from the auger/impeller drive belt.

5. To adjust the distance:
 - A. Remove the clevis pin.
 - B. Loosen the jam nut.
 - C. Thread the clevis up or down to increase or decrease the distance between the top of the handgrip and the bottom of the auger/impeller drive control lever (Figure 8).
6. When the adjustment is correct, install the clevis pin and secure it in place with the cotter pin (Figure 8).
7. Tighten the jam nut to secure the clevis (Figure 8).

5

Installing the Chute Control Rod

Parts needed for this procedure:

1	Chute control rod assembly (rod and bracket, worm gear, and bracket)
1	Belleville washer
2	Bolt
1	Carriage bolt
3	Locknut
1	Curved washer

Procedure

1. Secure the upper chute control bracket (attached to the chute control rod) to the upper left side of the handle with a bolt and a locknut Figure 10.

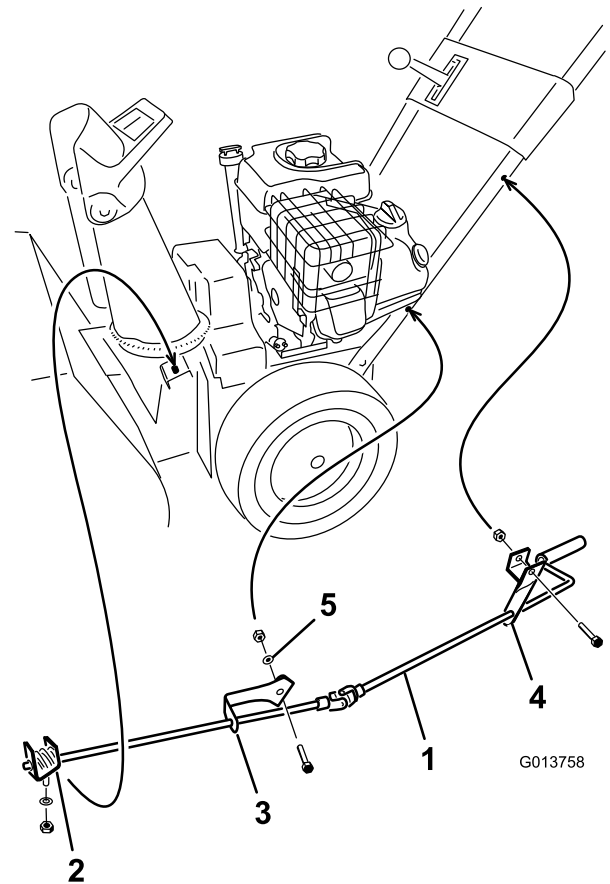


Figure 10

1. Chute control rod
2. Worm gear, bracket, and mounting flange
3. Lower chute control bracket
4. Upper chute control bracket
5. Curved washer

Note: Leave the locknut loose.

2. Secure the lower chute control bracket (attached to the chute control rod) to the lower left side of the handle with a bolt, a curved washer, a flatwasher, and a locknut (Figure 10).

Note: The bracket should be fastened on the outside of the handle, and the rod should be approximately parallel to the ground and not touch the handle.

Note: Leave the locknut loose.

3. Apply No. 2 general purpose grease to the worm gear (Figure 11).

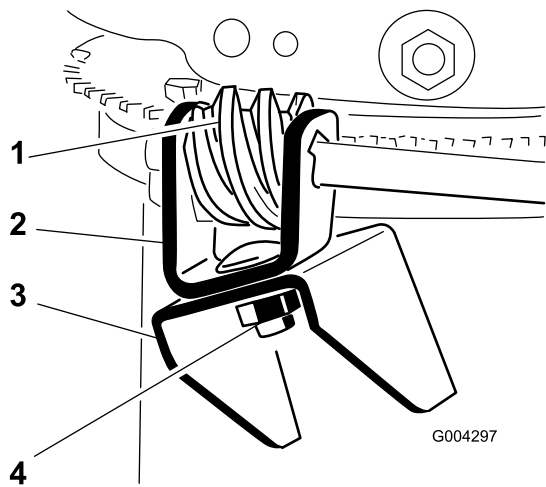


Figure 11

- | | |
|--------------|---|
| 1. Worm gear | 3. Mounting flange |
| 2. Bracket | 4. Bolt, Belleville washer, and locknut |

- Loosely mount the worm gear and the bracket to the mounting flange with a bolt, a Belleville washer, and a locknut as shown in Figure 11.
- Slide the worm gear into the teeth of the chute retaining ring and tighten the locknut (Figure 11).
- Tighten the locknuts that secure the 2 chute control brackets (Figure 10).
- Check the operation of the chute control rod, and move the worm gear slightly outward if it binds.

6

Filling the Engine with Oil

No Parts Required

Procedure

Your machine comes with 20 oz. (0.6 l) of oil in the engine.

Note: Before starting the engine, check the oil level and add oil if necessary.

Max. fill: 20 oz. (0.6 l), type: automotive detergent oil with an API service classification of SF, SG, SH, SJ, SL, or higher.

Refer to Figure 12 to select the best oil viscosity for the outdoor temperature range expected.

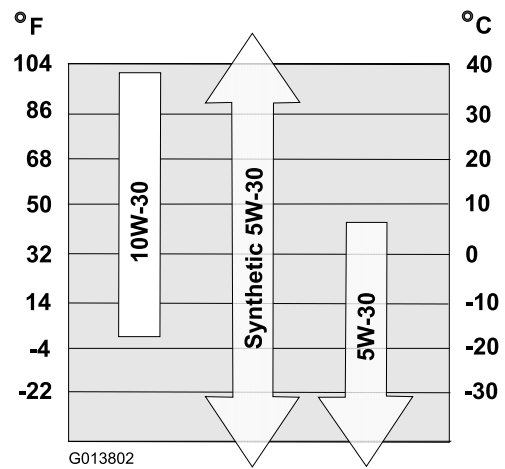


Figure 12

- Move the machine to a level surface to ensure an accurate oil level reading.
- Clean around the dipstick (Figure 13).

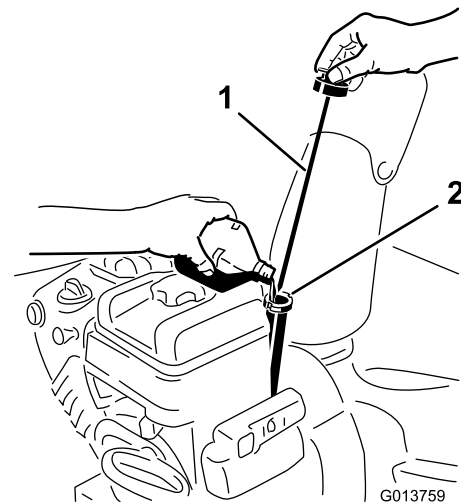


Figure 13

- | | |
|-------------|----------------|
| 1. Dipstick | 2. Filler hole |
|-------------|----------------|

- Remove the dipstick by rotating the cap counterclockwise and pulling it out.
- Slowly pour about 3/4 of the crankcase capacity of oil into the crankcase.
- Wipe the dipstick clean with a clean cloth.
- Install the dipstick into the filler neck, then remove it.

Note: To ensure an accurate oil level reading, you must fully install the dipstick.

- Read the oil level on the dipstick.
- If the oil level is below the Add mark on the dipstick, slowly pour only enough oil into the filler hole to raise the oil level to the Full mark on the dipstick.

Important: Do not overfill the crankcase with oil and run the engine; engine damage will

result. Drain the excess oil until the oil level on the dipstick reads Full.

9. Insert the dipstick into the filler neck and rotate the cap clockwise until it is tight.

7

Checking the Tire Pressure

No Parts Required

Procedure

The tires are overinflated at the factory for shipping. Reduce the pressure equally in both tires to between 12 and 15 psi (82 and 103 kPa).

8

Checking the Skids and Scraper

No Parts Required

Procedure

Refer to Checking and Adjusting the Skids and Scraper in Maintenance.

Product Overview

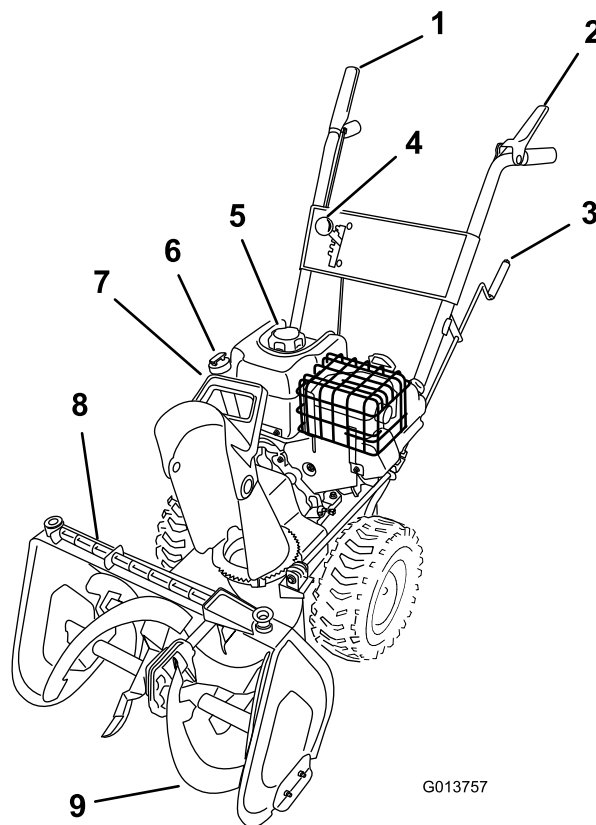


Figure 14

- | | |
|---------------------------------------|---------------------------|
| 1. Auger/impeller drive control lever | 6. Oil fill/dipstick |
| 2. Traction control lever | 7. Chute deflector handle |
| 3. Discharge chute control | 8. Snow clean-out tool |
| 4. Speed selector lever | 9. Auger |
| 5. Fuel tank cap | |

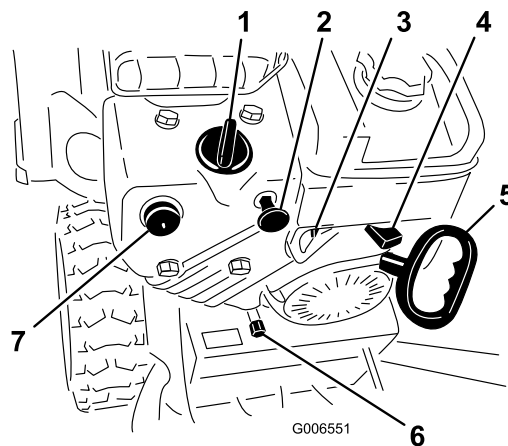


Figure 15

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

Controls

- **Auger/Impeller Drive Control Lever**—To engage both the auger and impeller, press the lever against the right handgrip. To disengage, release the lever.
- **Traction Control Lever**—To engage the traction (wheel drive), press the lever against the left handgrip. To stop the traction, release the lever.
- **Speed Selector Lever**—This control has 4 positions: 3 forward speeds and 1 reverse. To change speeds, move the speed selector lever to the desired position. The lever locks in a notch at each speed selection.

Note: Before shifting gears into or out of reverse, you must release the traction control lever. You may shift between any of the forward speeds without releasing the traction control lever.

- **Discharge Chute Control**—Rotate the discharge chute control clockwise to move the discharge chute to the left; counterclockwise to move the chute to the right.
- **Chute Deflector Handle**—Move the deflector handle forward to move the snow stream down; move it rearward to move the snow stream up.
- **Fuel shutoff Valve**—Close the valve by rotating clockwise. Open the valve by rotating it counterclockwise. Close the valve when you do not use the machine.
- **Ignition Switch**—Insert the ignition key before starting the engine. To stop the engine, remove the key.
- **Choke**—Rotate the choke to the Full position to start a cold engine. As engine warms up, gradually rotate the choke to the Off position.
- **Throttle Lever**—Move the throttle lever to the right to increase the engine speed; move it to the left to decrease the engine speed. Move the throttle lever to the Stop position to stop the engine.
- **Primer**—Press the primer to pump a small amount of gasoline into the engine for improved cold-weather starting.
- **Electric Starter**—The electric starter is on the right side of the engine. To start the machine, connect the electric starter to an electric power source with an approved extension cord and press the starter button.
- **Recoil Starter**—The recoil starter is on the back side of the engine. Pull the recoil starter to start the engine.
- **Snow Clean-out Tool**—The snow clean-out tool is on the top of the auger housing. Use this tool to

unclog the discharge chute when it becomes clogged with snow.

Operation

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

Freewheeling or Using the Self-propel Drive

You can operate the machine with the self-propel feature engaged or disengaged (freewheeling).

To freewheel, slide the wheels inward and insert the axle pins through the outer axle holes, but not through the wheel hubs (Figure 16).

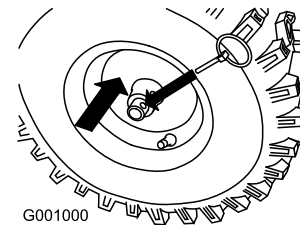


Figure 16

To self-propel, slide the wheels outward and insert the axle pins through the holes in the wheel hubs and the outer axle holes (Figure 17).

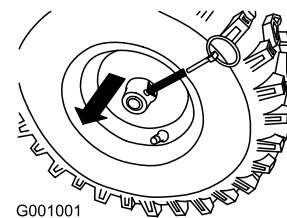


Figure 17

Filling the Fuel Tank

⚠ DANGER

Gasoline is extremely flammable and explosive. A fire or explosion from gasoline can burn you and others.

- To prevent a static charge from igniting the gasoline, 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 gasoline when smoking or around an open flame or sparks.
- Store gasoline in an approved fuel container, out of the reach of children.

Fill the fuel tank with fresh unleaded regular gasoline from a major name-brand service station (Figure 18).

Important: To reduce starting problems, add fuel stabilizer to the fuel all season, mixing it with gasoline less than 30 days old. *Do not add oil to the gasoline.*

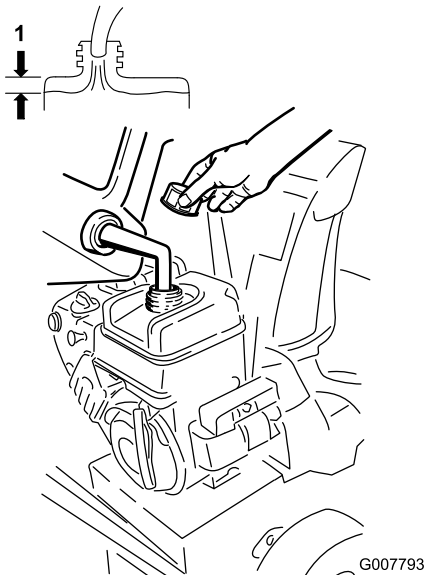


Figure 18

Starting the Engine

1. Check the engine oil level. Refer to Checking the Engine Oil Level in Maintenance.
2. Turn the fuel shutoff valve 1/4 turn counterclockwise to open it (Figure 19).

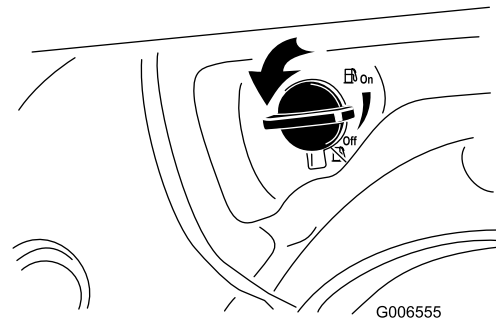


Figure 19

3. Insert the ignition key (Figure 20).

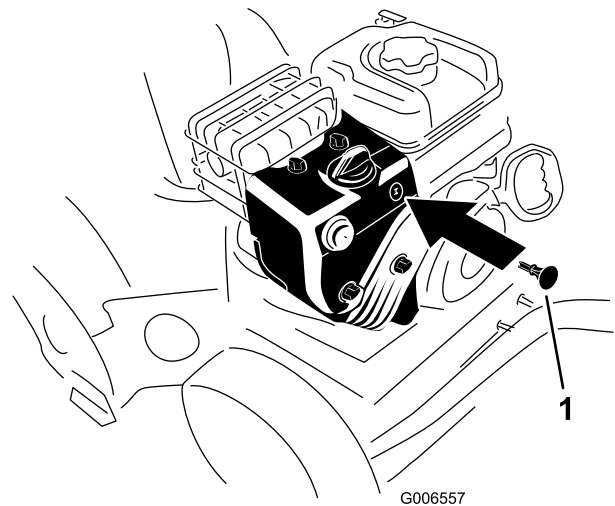


Figure 20

1. Ignition key

4. Firmly push in the primer with your thumb 2 times (15°F or -9°C or above) or 4 times (below 15°F or -9°C), holding the primer in for a second before releasing it each time (Figure 21).

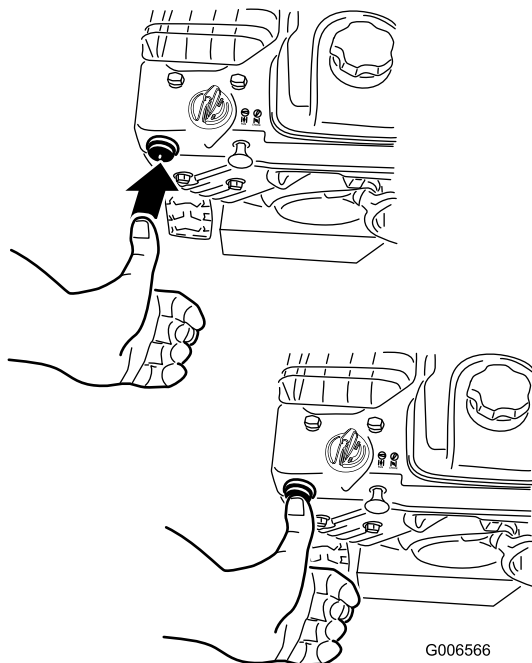


Figure 21

5. Rotate the choke to the Choke position (Figure 22).

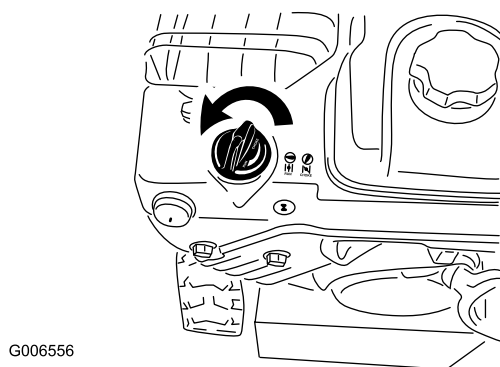


Figure 22

6. Move the throttle to the Fast position (Figure 23).

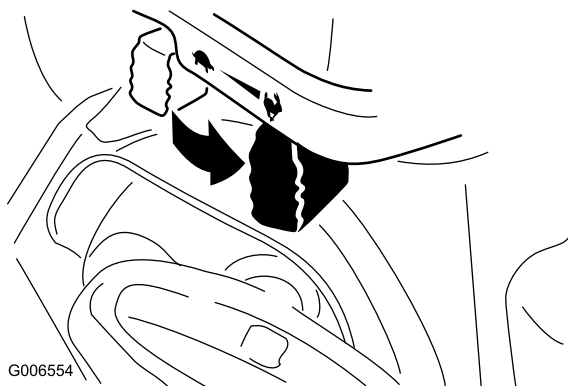


Figure 23

7. Connect an extension cord to the electric starter and the outlet.

Note: To use the electric starter, connect a power cord to the electric starter 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 feet (15 m).

8. Start the machine by pulling the recoil starter or pressing the electric-start button (Figure 24).

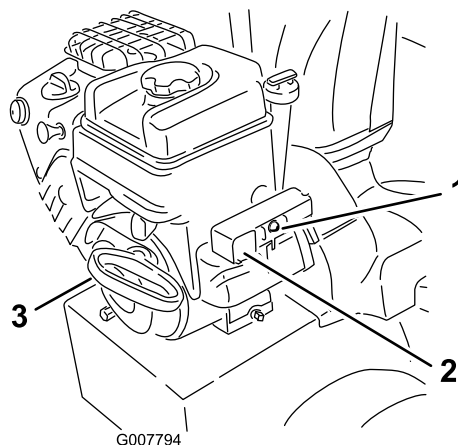


Figure 24

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

⚠ 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 operate the machine. 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 maximum, then wait one minute before trying to start it again). If the engine still does not start, take the machine to an Authorized Service Dealer for service.

9. Disconnect the extension cord from the power outlet first and then from the machine (electric start only).
10. Allow the engine to warm up for several minutes, then move the choke toward the Run position. Wait for the engine to run smoothly before each choke adjustment.

⚠ WARNING

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.

Stopping the Engine

1. Move the throttle to the Slow position, and then to the Stop position (Figure 25).

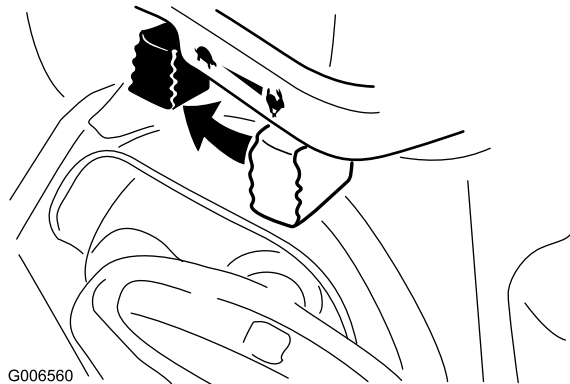


Figure 25

2. Wait for all moving parts to stop before leaving the operating position.
3. Remove the ignition key.
4. Close the fuel shutoff valve by rotating it clockwise (Figure 26).

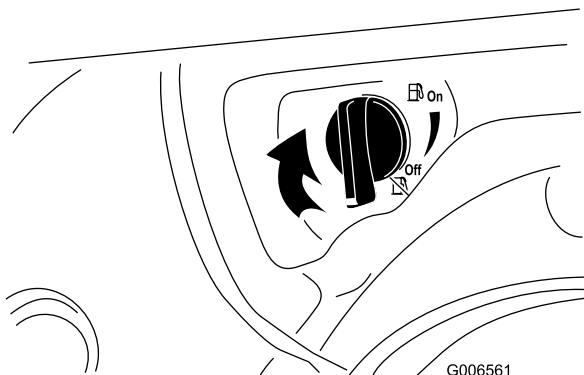


Figure 26

5. Pull the recoil starter 3 or 4 times. This helps prevent the recoil starter from freezing up.
6. Wait for all moving parts to stop before leaving the operating position.

Unclogging the Discharge Chute

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

If the discharge chute becomes clogged, **stop the engine, wait for all moving parts to stop, and use the clean-out tool— never use your hand.**

Preventing Freeze-up

- 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 discharge chute control to prevent it from freezing. Stop 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 starter handle several times to prevent the recoil starter from freezing up.

Operating Tips

⚠ DANGER

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

- Before adjusting, cleaning, inspecting, troubleshooting, or repairing the machine, stop 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 Unclogging the Discharge Chute. If necessary, use the clean-out tool, 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 face, hands, feet, and any other part of your body or clothing away from concealed, moving, or rotating parts.

⚠ WARNING

The rotor blades can throw stones, toys, and other foreign objects and cause serious personal injury to the operator or to bystanders.

- Keep the area to be cleared free of all objects that the rotor blades could pick up and throw.
- Keep all children and pets away from the area of operation.
- Always set the throttle lever 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.

Maintenance

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

Recommended Maintenance Schedule(s)

Maintenance Service Interval	Maintenance Procedure
After the first hour	• Inspect and adjust the traction drive belt. • Inspect and adjust the auger/impeller drive belt.
After the first 5 hours	• Change the engine oil.
Before each use or daily	• Check the engine oil level and add oil if necessary. • Inspect and adjust or replace the traction drive belt when necessary. • Inspect and adjust or replace the auger/impeller drive belt when necessary.
Every 20 hours	• Lubricate the machine.
Every 50 hours	• Change the engine oil.
Every 100 hours	• Inspect the spark plug. Replace and/or gap it if necessary.
Yearly	• Check the skids and the scraper and adjust them if necessary. • Check the auger gearbox oil and add oil if necessary. • Change the engine oil.
Yearly or before storage	• Lubricate the machine. • Drain the gasoline and run the engine to dry out the fuel tank and the carburetor at the end of the season.

Important: Refer to your engine operator's manual for additional maintenance procedures. For engine adjustments, repairs, or warranty service not covered in this manual, contact an Authorized Briggs & Stratton Servicing Dealer.

⚠ CAUTION

If you leave the wire on the spark plug, someone could accidentally start the engine and seriously injure you or bystanders.

Disconnect the wire from the spark plug before you do any maintenance. Set the wire aside so that it does not accidentally contact the spark plug.

Preparing for Maintenance

1. Move the machine to a level surface.
2. Stop the engine and wait for all moving parts to stop.
3. Disconnect the spark plug wire. Refer to Inspecting and Replacing the Spark Plug.

Checking the Engine Oil Level

Service Interval: Before each use or daily

Each time before using the machine, first ensure that the oil level is between the Add and the Full marks on the dipstick.

1. Clean around the dipstick (Figure 13).
2. Remove the dipstick by rotating the cap counterclockwise and pulling it out.
3. Wipe the dipstick clean with a clean cloth.
4. Install the dipstick into the filler neck, then remove it.

Note: To ensure an accurate oil level reading, you must fully install the dipstick.

5. Read the oil level on the dipstick.
6. If the oil level is below the Add mark on the dipstick, slowly pour only enough oil into the filler hole to raise the oil level to the Full mark on the dipstick.

Note: Use only a high-quality, SAE 5W-30 or SAE 10 detergent oil that has the American Petroleum Institute (API) service classification SF, SG, SH, or SJ. For extremely cold conditions (below 0°F or -18°C), use 0W-30 detergent oil that has the American Petroleum Institute (API) service classification SF, SG, SH, or SJ.

Important: Do not overfill the crankcase with oil and run the engine; engine damage will result. Drain the excess oil until the oil level on the dipstick reads Full.

7. Insert the dipstick into the filler neck and rotate the cap clockwise until it is tight.

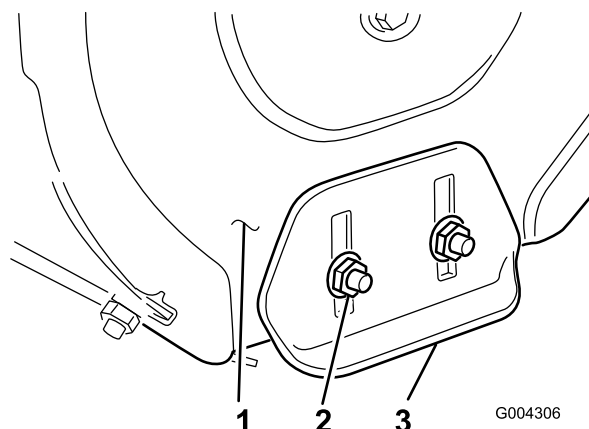


Figure 27

1. Auger side plate (2)
2. Flange nuts (4)
3. Skid (2)

4. Support the auger blades so that they are 1/8 inch (3 mm) off the ground (Figure 28).

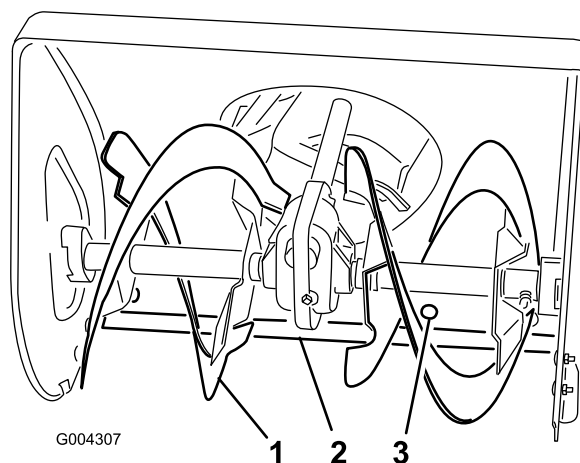


Figure 28

1. Auger blade
2. Scraper
3. Mounting screw (5)

Adjusting the Skids and Scraper

Service Interval: Yearly

Adjust the skids and the scraper initially and then as needed to ensure that the auger does not contact the paved or gravel surface. Also, adjust them as needed to compensate for wear.

1. Move the machine to a level surface.
2. Check the tire pressure in the tires. Refer to Checking the Tire Pressure in Setup.
3. Loosen the 4 flange nuts that secure both skids to the auger side plates (Figure 27) until the skids slide up and down easily.

5. Check the scraper adjustment. The scraper should be 1/8 inch (3 mm) above and parallel to a level surface.

A. For Concrete and Asphalt Surfaces:

If the machine does not clear the snow close enough to the pavement, adjust the skids to lower the scraper; if the pavement surfaces are cracked, rough, or uneven, adjust the skids to raise the scraper.

B. For Gravel Surfaces:

Support the auger blades a few inches (cm) above the ground, and adjust the skids to prevent the machine from picking up rocks.

6. To adjust the scraper, loosen the 5 mounting screws (Figure 28), level the scraper, and tighten the mounting screws.

7. Move the skids down as far as possible.
8. Tighten the 4 flange nuts that secure both skids to the auger side plates (Figure 27).

Adjusting the Speed Selector

Adjust the speed selector linkage initially and when the machine is slow, first gear has no speed, or the speed selector lever does not move into third gear.

1. Drain gasoline from the fuel tank and the engine oil from the crankcase. Refer to Emptying the Fuel Tank and to Changing the Engine Oil.
2. Tip the machine forward and block it so that it cannot fall.
3. Remove the 4 flange-head bolts that secure the bottom cover to the frame and remove the cover (Figure 34).
4. Loosen the flange nuts that secure the selector plate to the control panel (Figure 29).

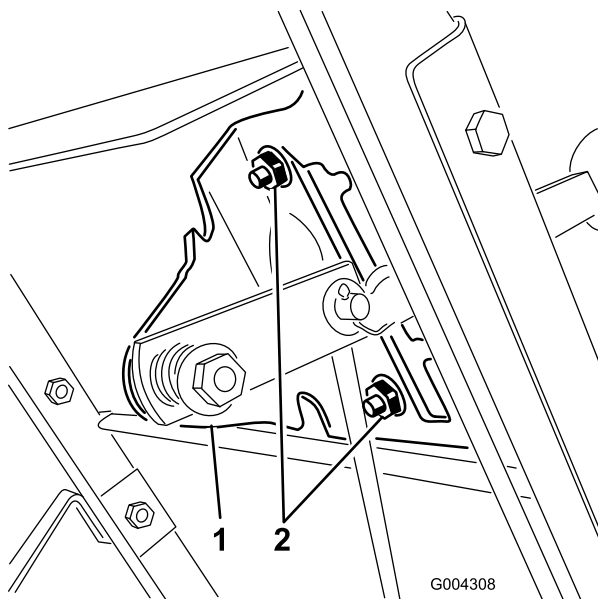


Figure 29

1. Speed selector plate
2. Flange nuts

5. Shift the speed selector lever to third gear and push down on the speed selector plate to move the drive assembly to the right.

Note: The drive assembly should be 1/8 inch (3 mm) from the roll pin; if not, slide the selector plate (Figure 29) until the gap is 1/8 inch (3 mm); refer to Figure 30.

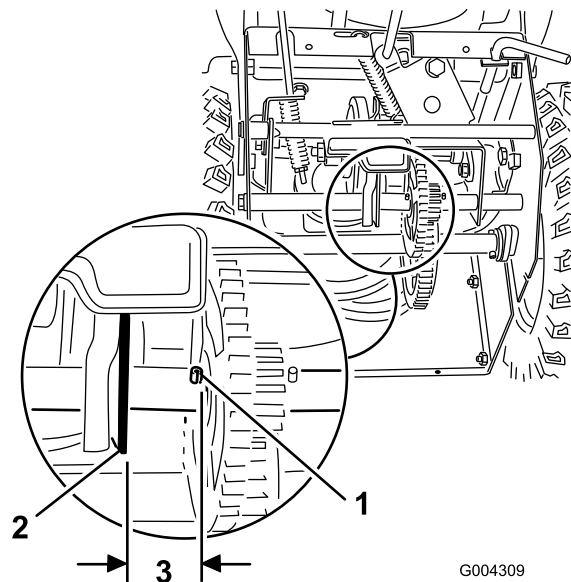


Figure 30

1. Roll pin
2. Drive assembly
3. 1/8 inch (3 mm)

6. With the drive assembly 1/8 inch (3 mm) from the roll pin, tighten the flange nuts that secure the speed selector plate.
7. Shift the speed selector lever to the R (Reverse) position and back to third gear to check the adjustment.
8. If the space between the roll pin and the drive assembly is more than 3/16 inch (5 mm), repeat steps 3 through 6.
9. Install the bottom cover and return the machine to the upright position.

Checking the Auger Gearbox Grease

Service Interval: Yearly

The auger gearbox is packed with 5 oz. (140 g) of Lubriplate MAG-1 (a low-temperature, high-pressure grease) and is sealed at the factory. The pipe plug (Figure 31) is for factory use only; you do not need to check or add grease. If the gearbox is leaking grease, contact an Authorized Service Dealer.

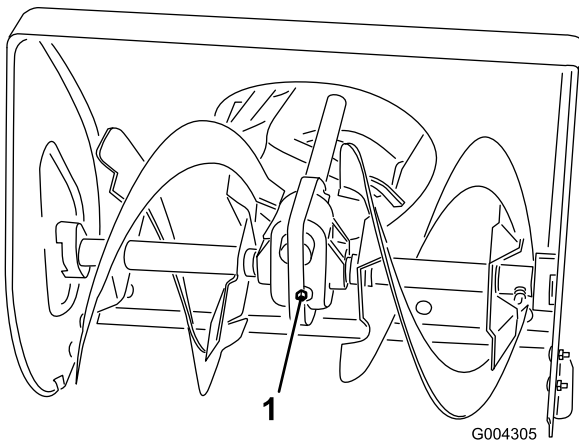


Figure 31

1. Pipe plug

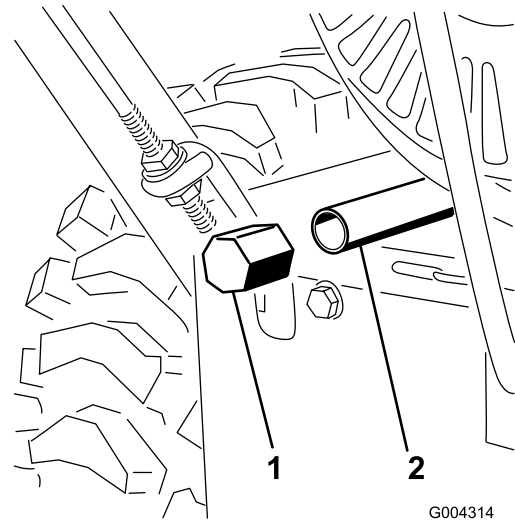


Figure 33

1. Oil drain plug
2. Drain extension

Changing the Engine Oil

Service Interval: After the first 5 hours

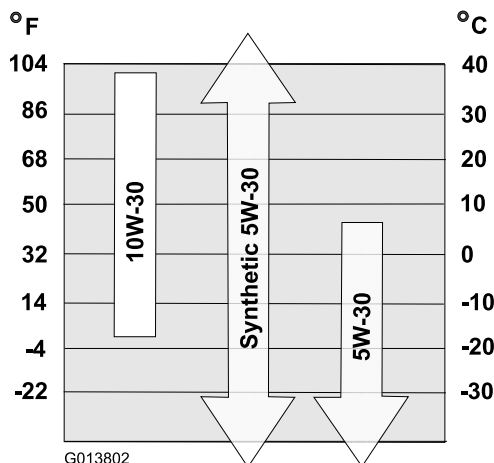
Yearly

Every 50 hours

If possible, run the engine just before changing the oil because warm oil flows better and carries more contaminants.

Max. fill: 20 oz. (0.6 l), type: automotive detergent oil with an API service classification of SF, SG, SH, SJ, SL, or higher.

Refer to Figure 32 to select the best oil viscosity for the outdoor temperature range expected.



G013802

Figure 32

1. Block up the rear of the machine.
2. Remove the left wheel.
3. Clean the area around the oil drain plug (Figure 33).

4. Slide an oil drain pan under the drain extension and remove the oil drain plug (Figure 33).

Note: Place a funnel under the drain extension so the oil drains directly into the oil drain pan and away from the machine.

5. Drain the oil.

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

6. Install the oil drain plug.
7. Install the left wheel.
8. Fill the crankcase with oil. Refer to Filling the Engine with Oil in Setup.
9. Wipe up any spilled oil.

Lubricating the Machine

Service Interval: Every 20 hours

Yearly or before storage

Lightly lubricate all moving parts of the machine after every 20 operating hours and at the end of the snowthrowing season.

Important: Do not get oil or grease on the rubber wheel or friction drive plate because the wheel will slip and the rubber may deteriorate.

1. Drain gasoline from the fuel tank and the oil from the crankcase. Refer to Emptying the Fuel Tank and to Changing the Engine Oil.
2. Tip the machine forward onto the auger/impeller housing and block it so that it cannot fall.
3. Remove the 4 flange-head bolts that secure the bottom cover and remove the cover (Figure 34).

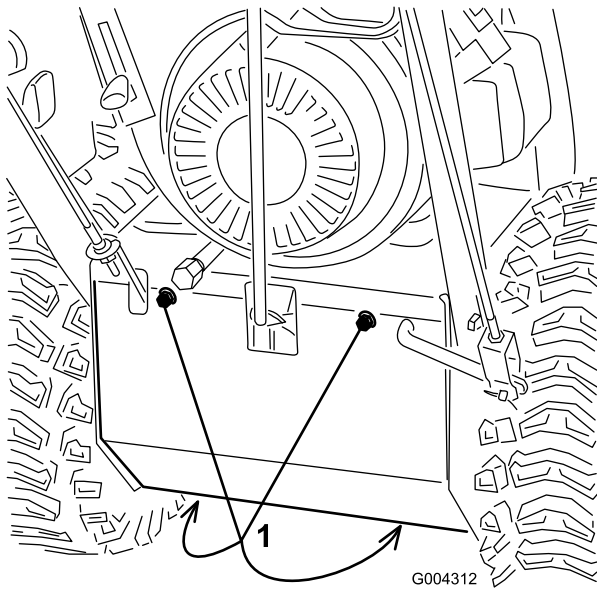


Figure 34

1. Flange-head bolts

4. Lightly lubricate the machine with light oil as shown in Figure 35.

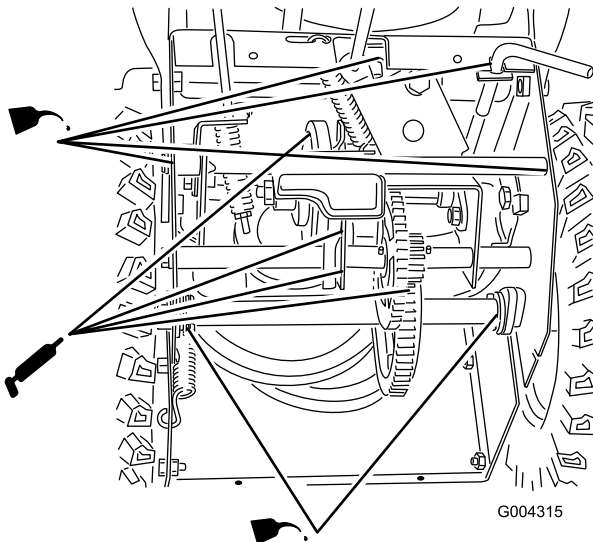


Figure 35

Important: Do not excessively oil the machine; extra oil may enter the traction drive and cause the traction drive belt to slip.

5. Wipe up any excess oil.
6. Grease the machine as shown in Figure 35.
7. Wipe up any excess grease.
8. Install the bottom cover.
9. Return the machine to its upright position.

Inspecting and Replacing the Spark Plug

Service Interval: Every 100 hours

Use a **Champion QC12YC** or equivalent spark plug. Check and gap the spark yearly, and replace the plug if necessary.

1. Clean around the base of the spark plug.
2. Remove the spark plug.
3. Examine the spark plug and replace it if it is cracked, fouled, dirty, or if the electrodes are worn.

Important: Do not clean the electrodes because grit could enter the cylinder and damage the engine.

4. Set the gap between the electrodes on the spark plug at 0.030 inch (0.76 mm) (Figure 36).

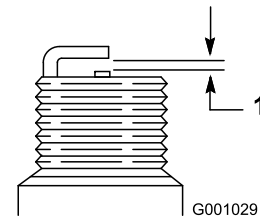


Figure 36

1. 0.030 inch (0.76 mm)

5. Install the spark plug by hand and then torque it to 15 ft-lb (20.4 N-m).

Note: If you do not have a torque wrench, tighten the plug firmly.

Adjusting the Traction Drive Belt

Service Interval: After the first hour

Before each use or daily

Adjust the traction drive belt after the first operating hour, after every 5 operating hours thereafter, and when the speed selector lever shifts properly but the machine does not drive in the forward or reverse speeds.

1. Check and adjust the traction drive as described in Installing the Traction Rod in Setup.
2. If the problem persists after adjusting the linkage, contact an Authorized Service Dealer.

Replacing the Traction Drive Belt

If the traction drive belt becomes worn, oil-soaked, or otherwise damaged, replace the belt.

1. Drain gasoline from the fuel tank and the oil from the crankcase. Refer to Emptying the Fuel Tank and to Changing the Engine Oil.
2. Remove the 2 flange-head bolts that hold the belt cover in place and set the cover aside (Figure 37).

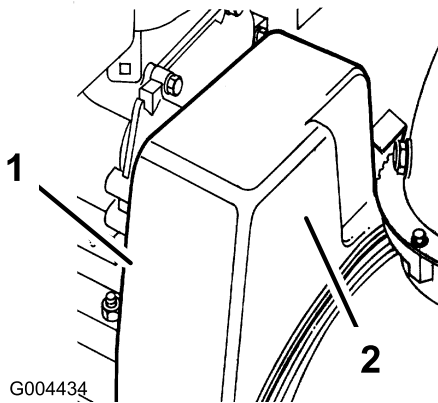


Figure 37

- | | |
|-------------------------|---------------|
| 1. Flange-head bolt (2) | 2. Belt cover |
|-------------------------|---------------|

3. Loosen the belt guide (Figure 38).

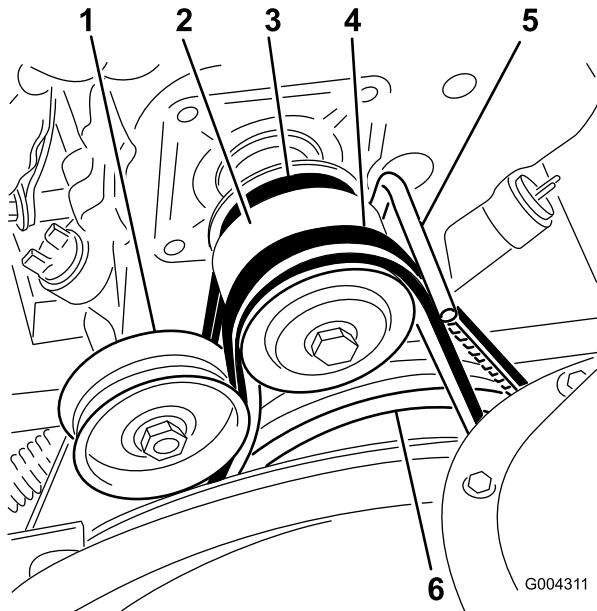


Figure 38

- | | |
|------------------------|--------------------------------|
| 1. Idler pulley | 4. Auger/impeller drive belt |
| 2. Engine pulley | 5. Belt guide |
| 3. Traction drive belt | 6. Large auger/impeller pulley |

4. Remove the auger/impeller drive belt from the engine pulley and the large auger/impeller pulley (Figure 38).
5. Tip the machine forward and block it so that it cannot fall.
6. Remove the 4 flange-head bolts that secure the bottom cover to the frame and remove the cover (Figure 34).
7. Disconnect the spring from the notch in the bottom edge of the side plate (Figure 39).

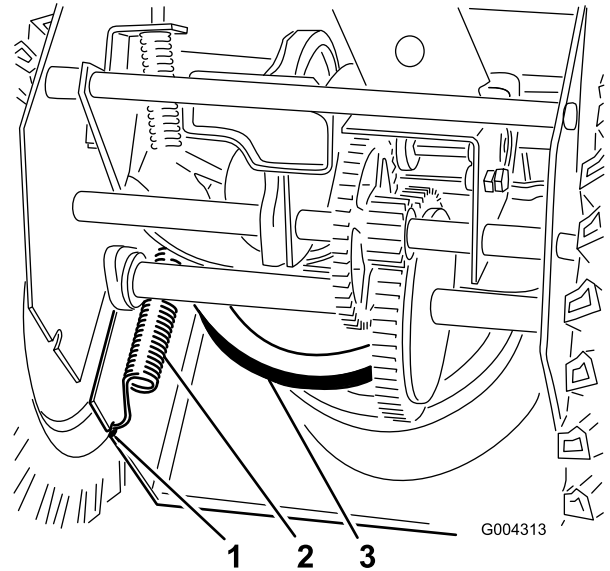


Figure 39

- | | |
|------------------------|--------------------------|
| 1. Notch in side plate | 3. Large traction pulley |
| 2. Spring | |

⚠ CAUTION

The spring is under heavy tension and could injure you or a bystander if you do not carefully remove it.

Carefully remove the spring.

8. Set the machine upright.
9. Remove the traction drive belt from the engine pulley and the large traction pulley (Figure 38).
10. Install a new belt around the large traction pulley.
11. Loop the belt over the engine pulley, ensuring that the belt is on the inside of the belt guide (Figure 38).
12. Tip the machine forward and block it so that it cannot fall.
13. Hook the spring into the notch in the bottom edge of the side plate (Figure 39).
14. Replace the bottom cover with the 4 flange-head bolts.
15. Set the machine upright.

16. Install the auger/impeller drive belt around the large auger/impeller pulley and engine pulley, ensuring that the belt is on the inside of the idler pulley and the belt guide (Figure 38).
17. Adjust the belt guide so that there is 1/8 inch (3 mm) of clearance between the auger/impeller drive belt and the guide, and secure the belt guide when the auger/impeller drive belt is tight.
18. Check the auger/impeller drive linkage and adjust it if necessary. Refer to steps 4 through 7 of Installing the Auger/Impeller Drive Control Linkage in Setup.
19. Install the belt cover.

Adjusting the Auger/Impeller Drive Belt

Service Interval: After the first hour

Before each use or daily

Operating the machine with an auger/impeller drive belt that slips decreases the snowthrowing performance and damages the belt. Check the auger/impeller drive belt for the proper tension after the first operating hour, then check and adjust the belt when necessary.

⚠ DANGER

Improperly adjusting the auger/impeller may cause it to turn when disengaged. A rotating auger or impeller can cut off or injure fingers, hands, or feet.

- Keep your face, hands, feet, and any other part of your body or clothing away from concealed, moving, or rotating parts.
 - Ensure that the impeller brake arm clearance is maintained.
 - Do not adjust the auger/impeller drive belt too tight because it may cause the auger/impeller to turn when the control lever is in the Disengaged position. If this occurs, decrease the belt tension.
1. Check and adjust the belt as instructed in Installing the Auger/Impeller Drive Control Linkage in Setup.
 2. Connect the wire to the spark plug.
 3. Check the belt tension by operating the auger.
 4. If the belt still slips, replace it. Refer to Replacing the Auger/Impeller Drive Belt.

Important: Do not operate the machine if the auger and the impeller rotate when you disengage the auger/impeller drive control lever.

Replacing the Auger/Impeller Drive Belt

If the auger/impeller drive belt becomes worn, oil-soaked, or otherwise damaged, replace the belt.

1. Remove the 2 flange-head bolts that hold the belt cover in place and set the cover aside (Figure 37).
2. Loosen the belt guide (Figure 38).
3. Remove the auger/impeller drive belt from the engine pulley and the large auger/impeller pulley (Figure 38).
4. Install a new belt around the large auger/impeller pulley (Figure 38).
5. Loop the belt over the engine pulley, ensuring that the belt is on the inside of the idler pulley and the belt guide (Figure 38).
6. Adjust the belt guide so that there is 1/8 inch (3 mm) of clearance between the auger/impeller drive belt and the guide, and secure the belt guide.
7. Check and adjust the auger/impeller drive belt as instructed in Installing the Auger/Impeller Drive Control Linkage in Setup.
8. Install the belt cover.

Important: Do not operate the machine if the auger and the impeller rotate when you disengage the auger/impeller drive control lever.

Storage

⚠ WARNING

- Gasoline vapors can explode.
- Do not store gasoline more than 30 days.
- Do not store the machine in an enclosure near an open flame.
- Allow the engine to cool before storing it.

Preparing the Machine for Storage

1. On the last refueling of the year, add fuel stabilizer to fresh fuel as directed by the engine manufacturer.
2. Run the engine for 10 minutes to distribute the conditioned fuel through the fuel system.

3. Loosen the hose clamp that secures the fuel line to the valve and slide the fuel line off the fuel shutoff valve.
4. Open the fuel shutoff valve and allow the fuel to drain out of the fuel tank into an approved fuel container.
5. Install the fuel line onto the fuel shutoff valve and secure it with a hose clamp.
6. Run the machine until the engine stops from running out of fuel.
7. Prime the engine and start it again.
8. Allow the engine to run until it stops. When you can no longer start the engine, it is sufficiently dry.
9. Stop the engine and allow it to cool.
10. Remove the ignition key.
11. Disconnect the spark plug wire.
12. Remove the spark plug, add 1/2 oz. (15 ml) of oil through the spark plug hole, and pull the starter rope **slowly** several times to distribute oil throughout the cylinder to prevent cylinder corrosion during the off-season.
13. Loosely install the spark plug by hand.
14. Dispose of any unused fuel properly. Recycle it according to local codes, or use it in your automobile.
Note: Do not store stabilized fuel for more than 90 days.
15. Lubricate the machine. Refer to Lubricating the Machine.
16. Clean the machine thoroughly.
17. 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.
18. Tighten any loose fasteners. Repair or replace any damaged parts.
19. Cover the machine and store it in a clean, dry place out of the reach of children. Allow the engine to cool before storing it in any enclosure.

Removing the Machine from Storage

1. Remove the spark plug and spin the engine rapidly using the starter to blow the excess oil from the cylinder.
2. Install the spark plug and tighten it firmly.
3. Connect the spark plug wire.
4. Perform the annual maintenance procedures as given in the Recommended Maintenance Schedule.

Troubleshooting

Problem	Possible Cause	Corrective Action
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.
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 gasoline (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.
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 gasoline (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.
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.	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. Don't 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.

Problem	Possible Cause	Corrective Action
	7. The auger/impeller drive belt is worn or broken.	7. Replace the auger/impeller drive belt; refer to www.Toro.com for servicing information or take the machine to an Authorized Service Dealer.
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.
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 one or both tires.



The Toro Total Coverage Guarantee

A Three-Year Limited Warranty (45 Day Limited Warranty for Commercial Use)

Power Max
Power Throw
Two-Stage Snowthrowers

Conditions and Products Covered

The Toro Company and its affiliate, Toro Warranty Company, pursuant to an agreement between them, jointly promise to repair the Toro Product listed below if used for residential purposes*, if defective in materials or workmanship or if it stops functioning due to the failure of a component for the period listed below.

This warranty covers the cost of parts and labor, but you must pay transportation costs.

The following time periods apply from the date of purchase:

Products	Warranty Period
Power Max Snowthrowers and Attachments	3 years
— Power Max Chute	5 years
— Power Max Deflector	5 years
— Power Max Impeller Housing Cover	5 years
Power Throw Snowthrowers and Attachments	3 years

Limited Warranty for Commercial Use

Gas-powered Toro Products used for commercial, institutional, or rental use, are warranted for 45 days against defects in materials or workmanship. Components failing due to normal wear are not covered by this warranty.

Instructions for Obtaining Warranty Service

If you think that your Toro Product contains a defect in materials or workmanship, follow this procedure:

1. Contact any Authorized Toro Service Dealer to arrange service at their dealership. To locate a dealer convenient to you, refer to the *Yellow Pages* of your telephone directory (look under "Lawn Mowers") or access our web site at www.Toro.com. You may also call the numbers listed in item #3 to use the 24-hour Toro Dealer locator system.
2. Bring the product and your proof of purchase (sales receipt) to the Service Dealer. The dealer will diagnose the problem and determine if it is covered under warranty.
3. If for any reason you are dissatisfied with the Service Dealer's analysis or with the assistance provided, contact us at:

Customer Care Department, Consumer Division
The Toro Company
8111 Lyndale Avenue South
Bloomington, MN 55420-1196
Toll free at 866-336-5205 (U.S. customers)
Toll free at 866-854-9033 (Canadian customers)

Owner Responsibilities

You must maintain your Toro Product by following the maintenance procedures described in the *Operator's Manual*. Such routine maintenance, whether performed by a dealer or by you, is at your expense.

Items and Conditions Not Covered

There is no other express warranty except for special emission system coverage and engine warranty coverage on some products. This express warranty does not cover the following:

- Cost of regular maintenance service or wear parts, such as rotor blades (paddles), scraper blades, belts, fuel, lubricants, oil changes, spark plugs, cable/linkage or brake adjustments
- Any product or part which has been altered or misused and requires replacement or repair due to accidents or lack of proper maintenance
- Repairs necessary due to failure to use fresh fuel (less than one month old), or failure to properly prepare the unit prior to any period of non-use over one month
- Pickup and delivery charges
- Operational misuse, neglect, or accidents
- Repairs or attempted repairs by anyone other than an Authorized Toro Service Dealer

General Conditions

All repairs covered by these warranties must be performed by an Authorized Toro Service Dealer using Toro approved replacement parts. Repair by an Authorized Toro Service Dealer is your sole remedy under this warranty.

Neither The Toro Company nor Toro Warranty Company is liable for indirect, incidental, or consequential damages in connection with the use of the Toro Products covered by these warranties, including any cost or expense of providing substitute equipment or service during reasonable periods of malfunction or non-use pending completion of repairs under these warranties.

All implied warranties of merchantability (that the product is fit for ordinary use) and fitness for use (that the product is fit for a particular purpose) are limited to the duration of the expressed warranty. Some states do not allow exclusions of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Countries Other than the United States or Canada

Customers who have purchased Toro products exported from the United States or Canada should contact their Toro Distributor (Dealer) to obtain guarantee policies for your country, province, or state. If for any reason you are dissatisfied with your Distributor's service or have difficulty obtaining guarantee information, contact the Toro importer. If all other remedies fail, you may contact us at Toro Warranty Company.

*Residential purposes means use of the product on the same lot as your home. Use at more than one location, or institutional or rental use, is considered commercial use, and the commercial use warranty would apply.