Form No. 3358-430 Rev B

Power Clear™ Snowthrower

Model No. 38583—Serial No. 280000001 and Up
Model No. 38584—Serial No. 280000001 and Up

Operator's Manual

Introduction

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

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

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

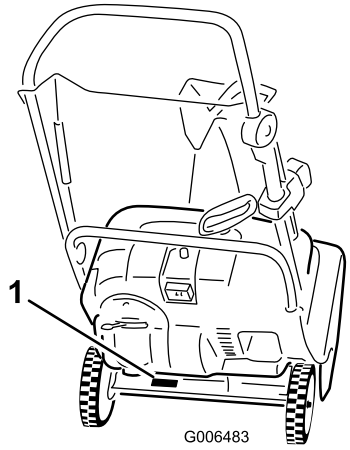


Figure 1

1. Model and serial number location

Model No. _____

Serial No. _____

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



Figure 2

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.

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.

This spark ignition system complies with Canadian ICES-002.

The enclosed *Engine Owner's Manual* is supplied for information regarding the US Environmental Protection Agency (EPA) and the California Emission Control Regulation of emission systems, maintenance, and warranty. Replacements may be ordered through the engine manufacturer.

Safety

This snowthrower 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 snowthrower could result in injury or death. To reduce this

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potential, comply with the following safety instructions.

This snowthrower 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 unit. Be thoroughly familiar with the controls and the proper use of the equipment. Know how to stop the unit and disengage the controls quickly.
- Never allow children to operate the equipment. Never allow adults to operate the equipment without proper instruction.
- Keep the area of operation clear of all persons, particularly small children.
- Exercise caution to avoid slipping or falling.

Preparation

- Thoroughly inspect the area where the equipment is to be used and remove all doormats, sleds, boards, wires, and other foreign objects.
- Do not operate the equipment 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 equipment from the truck or trailer and refuel it on the ground. If this is not possible, then refuel such equipment 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 units with electric starting motors.
- Do not attempt to clear snow from a gravel or crushed rock surface. This product is intended for use only on paved surfaces.
- 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.

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 ignition key, thoroughly inspect the snow thrower for any damage, and repair the damage before restarting and operating the snow thrower.
- If the unit 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 rotor blade housing or discharge chute, and when making any repairs, adjustments or inspections.
- When cleaning, repairing, or inspecting the snow thrower, stop the engine and make certain that the rotor blades and all moving parts have stopped.
- Do not run the engine indoors, except when starting the engine and for transporting the snow thrower in or out of the building. Open the outside doors; exhaust fumes are dangerous.
- Exercise extreme caution when operating on slopes.
- Never operate the snow thrower 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.

- Look behind and use care when backing up with the snow thrower.
- Disengage power to the rotor blades when snow thrower is transported or not in use.
- Never operate the snow thrower 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.

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 snow throwers. 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 rotor 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 equipment 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 snow thrower 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 rotor blades.

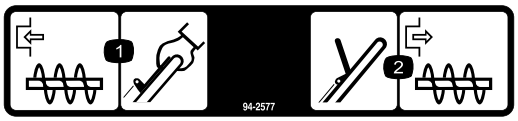
Toro Snowthrower Safety

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

- **Rotating rotor blades can injure fingers or hands.** Stay behind the handles and away from the discharge opening while operating the snowthrower. **Keep your face, hands, feet, and any other part of your body or clothing away from moving or rotating parts.**
- Before adjusting, cleaning, repairing, and inspecting the snowthrower, and before unclogging the discharge chute, **stop the engine, remove the key, and wait for all moving parts to stop.**
- **Before** leaving the operating position, stop the engine, remove the ignition key, and wait for all moving parts to stop.
- If a shield, safety device, or decal is damaged, illegible, or lost, repair or replace it before beginning operation. Also, tighten any loose fasteners.
- **Do not** smoke while handling gasoline.
- **Do not** use the snowthrower 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 and remove the key. If major repairs are ever needed, contact an Authorized Service Dealer.
- Do not change the governor settings on the engine.
- When storing the snowthrower 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 snowthrower.
- 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.**



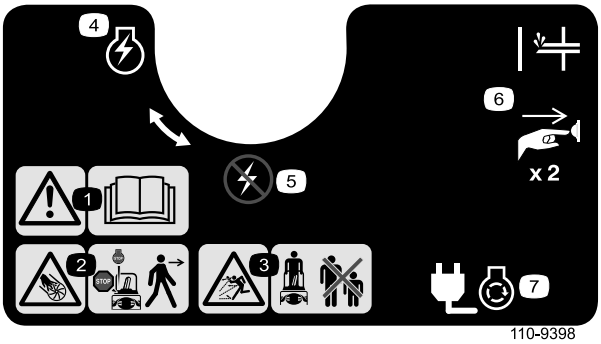
94-2577

1. To engage the rotor blades, hold the control bar against the handle.
2. To disengage the rotor blades, release the control bar.



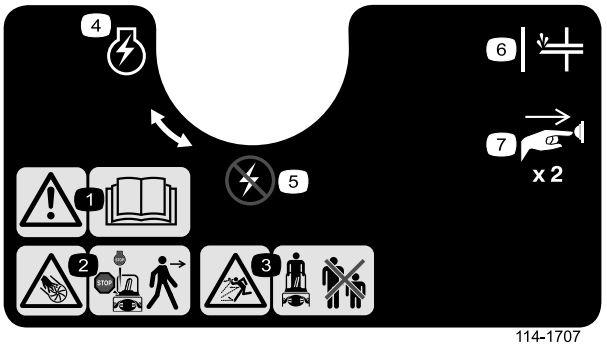
108-4939

1. Cutting dismemberment, rotor blades hazard; do not place your hand in the chute; remove the ignition key and read the instructions before servicing or performing maintenance.



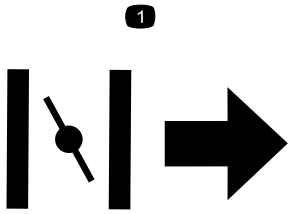
108-4928 (Model 38584 only)

1. Warning—read the *Operator's Manual.*
2. Cutting/dismemberment hazard, rotor blades—stop the engine before leaving the machine.
3. Thrown object hazard—keep bystanders a safe distance from the machine.
4. Engine switch On
5. Engine switch Off
6. Primer
7. Push the primer twice to prime the engine.
8. Plug the machine in to power the electric starter.



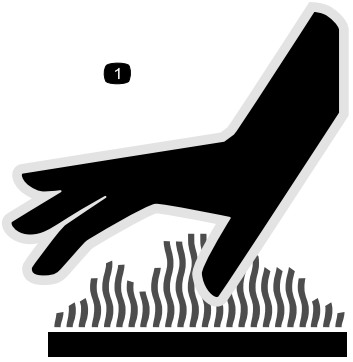
114-3752 (Model 38583 only)

1. Warning—read the *Operator's Manual.*
2. Cutting/dismemberment hazard, rotor blades—stop the engine before leaving the machine.
3. Thrown object hazard—keep bystanders a safe distance from the machine.
4. Engine switch On
5. Engine switch Off
6. Primer
7. Push the primer twice to prime the engine.



110–9382

1. Choke



114-3793

1. Hot surface (on exhaust baffle)

Setup

Loose Parts

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

Procedure	Description	Qty.	Use
1.	No parts required	–	Unfold the handle.
2.	Screws Chute assembly	3 1	Install the discharge chute.

1. Unfolding the Handle

Procedure

1. Loosen the lower handle knobs, pull out the handle bolts until you can move the handle freely, and rotate the handle to the operating position (Figure 3).

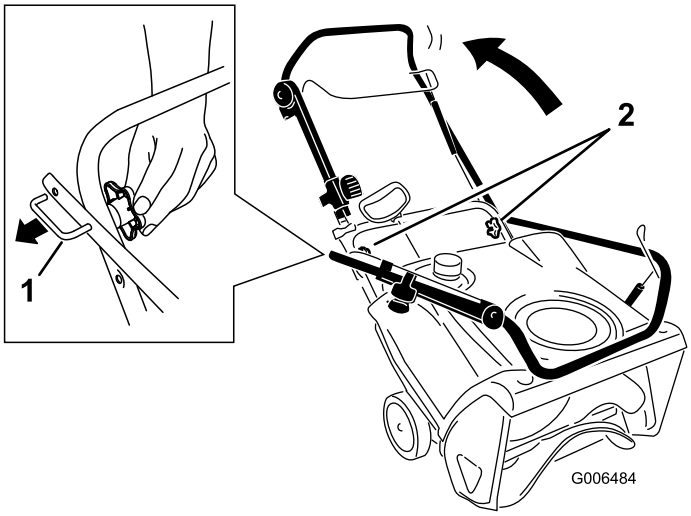


Figure 3

1. "U"-shaped handle lock (2) 2. Handle knobs

2. Insert the end of the "U"-shaped handle lock into the open hole in the handle and tighten the handle knobs until they are snug (Figure 4).

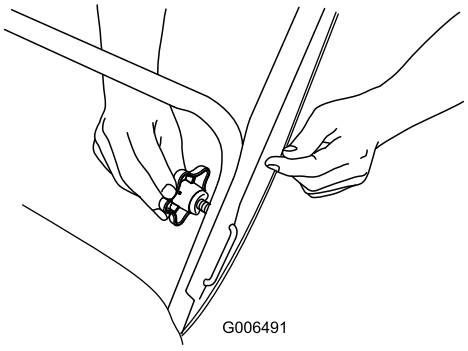


Figure 4

Important: Ensure that you do not pinch or kink the control cable or the Quick Shoot™ cables (Figure 5).

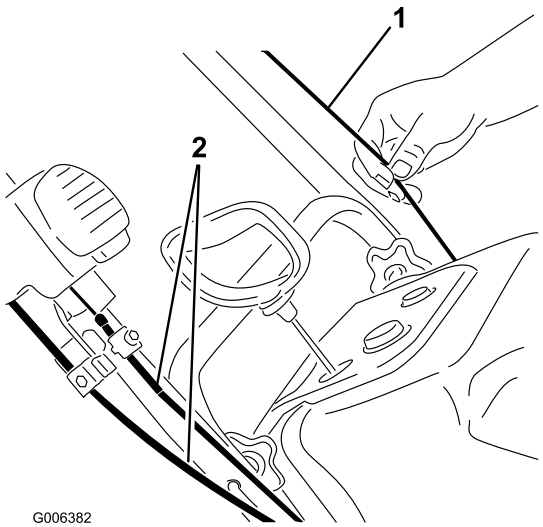


Figure 5

1. Control cable 2. Quick Shoot™ cables

2. Installing the Discharge Chute

3	Screws
1	Chute assembly

Procedure

Install the discharge chute as shown (Figure 6).

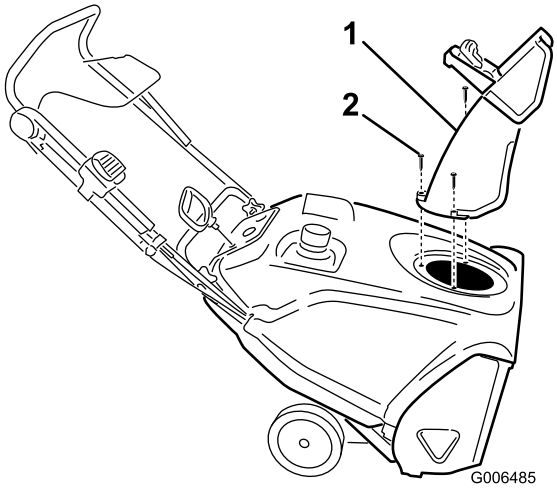


Figure 6

1. Discharge chute
2. Screw (3)

Note: For easier installation, use a small ratchet wrench to tighten the screws.

Important: Do not overtighten the screws; otherwise you may damage the discharge chute and prevent it from turning freely.

3. Adjusting the Control Cable

Procedure

Refer to Adjusting the Control Cable in Maintenance.

Product Overview

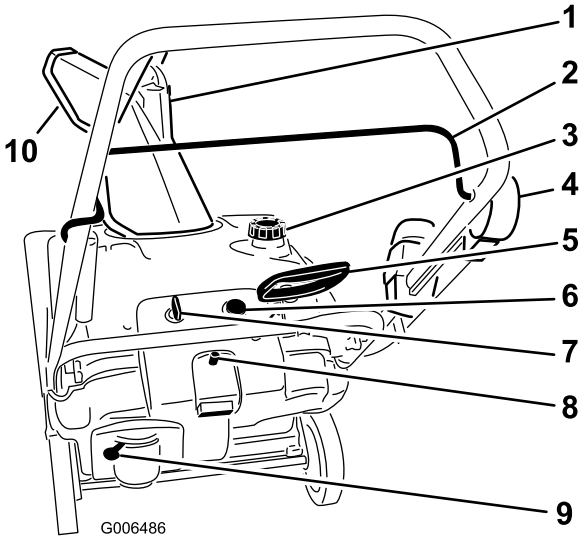


Figure 7

1. Chute deflector trigger
2. Control bar
3. Fuel tank cap
4. Quick Shoot™ control
5. Recoil start handle
6. Primer
7. Ignition key
8. Electric-start button (model 38584 only)
9. Choke lever
10. Chute deflector

Operation

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

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 snowthrower 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.**

Mixing Gasoline and Oil

This snowthrower uses a 50:1 gasoline-to-oil mixture. Use **Toro 50:1 2-Cycle Oil (Fuel Stabilizer Added)** or an equivalent high-grade, NMMA TCW III-certified 2-cycle oil.

Important: To prevent engine damage, do not use automotive oil (such as SAE 30 or 10W30) or fuel mixed at the wrong gasoline-to-oil ratio.

1. Pour a half US gallon (1.9 liters) of fresh, unleaded gasoline into an approved fuel container.
2. Add 2-cycle oil to the gasoline according to the chart below (Figure 8).

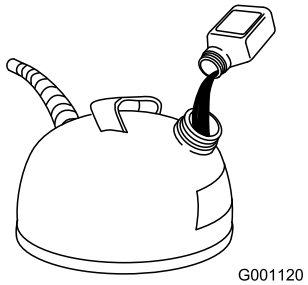


Figure 8

50:1 Gasoline-to-Oil Ratio Mixing Chart	
Gasoline	Oil
1.5 US gallons (5.7 liters)	4.0 ounces (120 ml)
2 US gallons (7.6 liters)	5.2 ounces (160 ml)
3 US gallons (11.4 liters)	8.0 ounces (240 ml)

3. Install the cap on the fuel container.
4. Shake the container to mix the gasoline and oil thoroughly.
5. Slowly remove the cap and add the remaining amount of gasoline.

   Note: Do not mix gasoline and oil in the fuel tank. Oil at room temperature mixes easier and more thoroughly than cold oil. Oil below 32°F (0°C) requires additional mixing.

Filling the Fuel Tank

Fill the fuel tank with fresh unleaded gasoline (Figure 9).

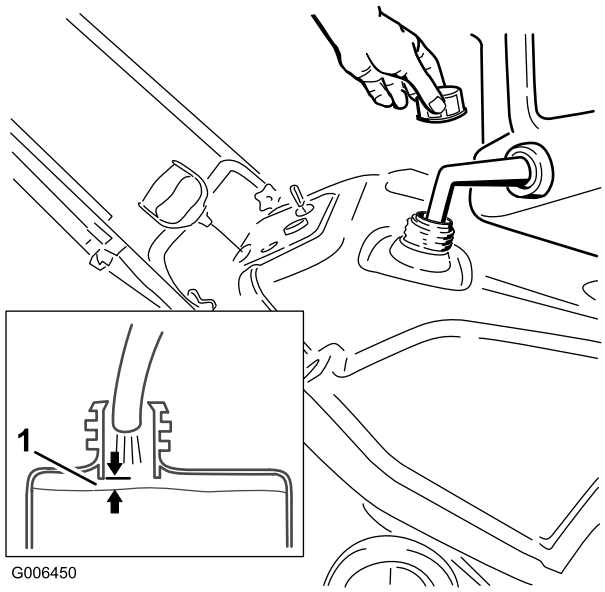


Figure 9

1. 1/4 inch (6 mm)

Important: Do not use E85 or E20 fuel. Alternative fuels with high alcohol content can cause hard starting, poor engine performance, and may cause internal engine damage.

Starting the Engine

1. Turn the ignition key clockwise to the On position (Figure 10).

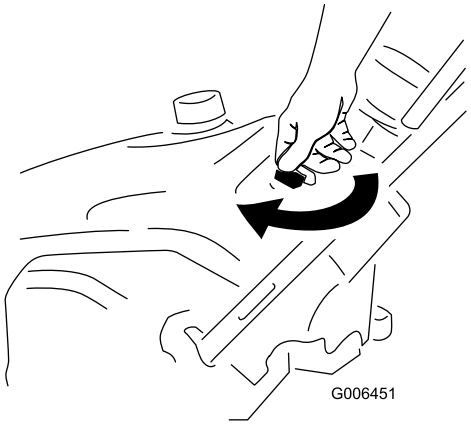


Figure 10

2. Move the choke lever to the right (Figure 11).

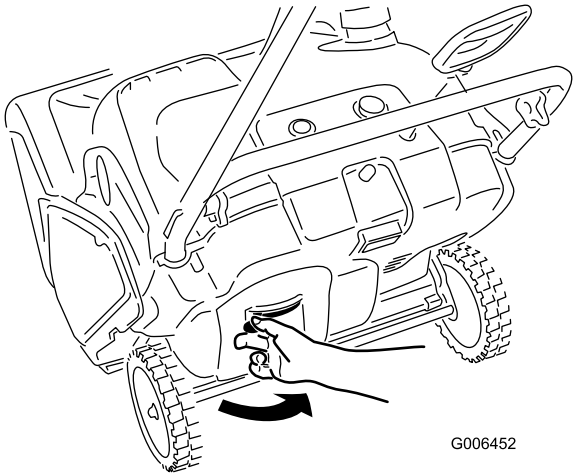


Figure 11

1. Choke lever

3. Firmly push in the primer 2 times with your thumb, holding the primer in a for a second before releasing it each time (Figure 12).

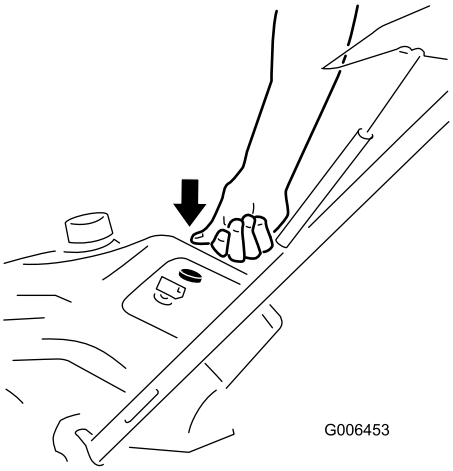


Figure 12

Note: Remove your glove when you push in the primer so that air cannot escape from the primer hole.

Important: Do not use the primer or the choke if the engine has been running as is hot. Excessive priming may flood the engine and prevent it from starting.

4. Connect an extension cord to a power source and the snowthrower, and push the electric-start button (model 38584 only) (Figure 13) or pull the recoil starter (Figure 14).

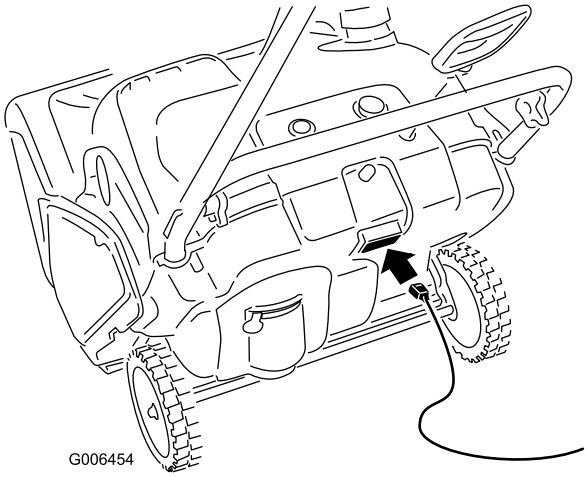


Figure 13

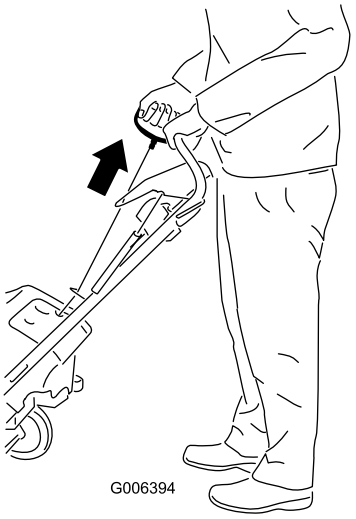


Figure 14

Important: Run the electric starter no more than 10 times at intervals of 5 seconds on, then 5 seconds off. Running the electric starter extensively can overheat and damage it. If the engine does not start after this series of attempts, wait at least 40 minutes to allow the starter to cool before attempting to start it again. If the engine does not start after the second series of attempts, take the snowthrower to an Authorized Service Dealer for service (model 38584 only).

5. While the engine is running, move the choke lever to the left slowly.
6. Unplug the extension cord from the power source and the snowthrower (model 38584 only).

If you leave the snowthrower plugged into a power outlet, someone can inadvertently start the snowthrower and injure people or damage property (model 38584 only).

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

Engaging the Rotor Blades

To engage the rotor blades, hold the control bar against the handle (Figure 15).

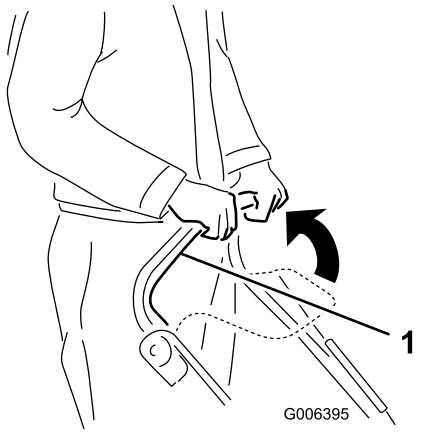


Figure 15

1. Control bar

Disengaging the Rotor Blades

To disengage the rotor blades, release the control bar (Figure 16).

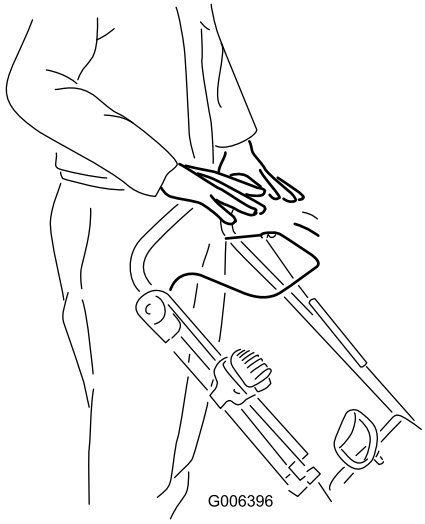


Figure 16

Stopping the Engine

To stop the engine, turn the ignition key counterclockwise to the Off position (Figure 17).

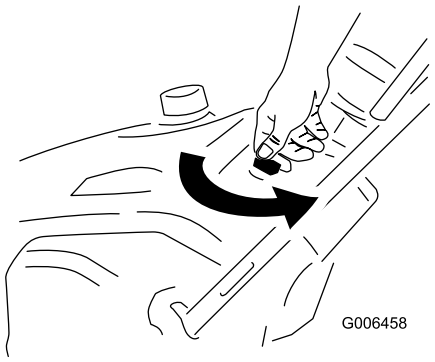


Figure 17

Adjusting the Discharge Chute and Chute Deflector

To adjust the discharge chute, press the trigger of the Quick Shoot™ control on the right hand side of the handle and move it up or down along the handle. Moving the control down the handle rotates the discharge chute to the left; moving the control up the handle rotates the discharge chute to the right (Figure 18).

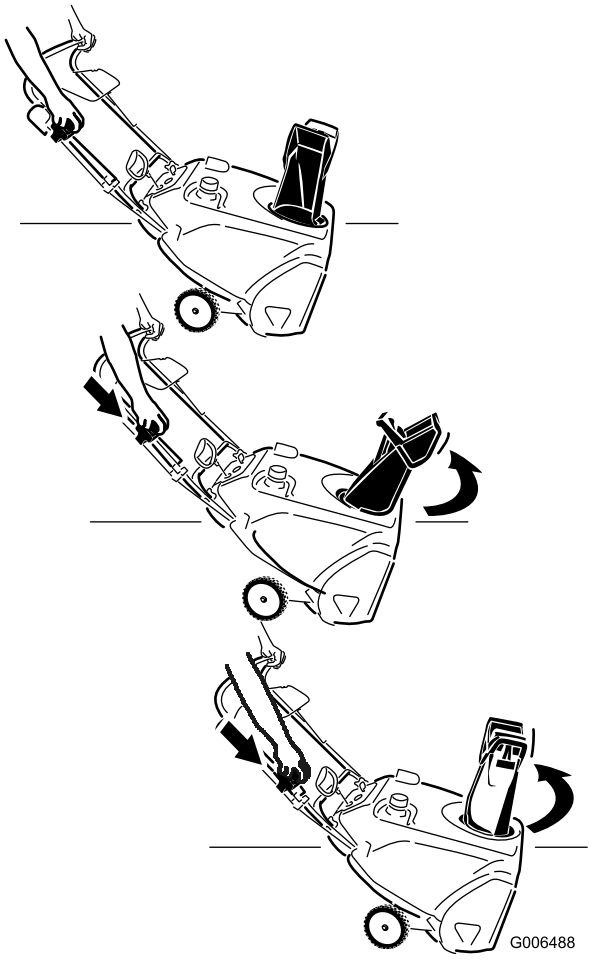


Figure 18

To raise or lower the angle of the chute deflector, press the trigger on the chute deflector and move the chute deflector up or down (Figure 19).

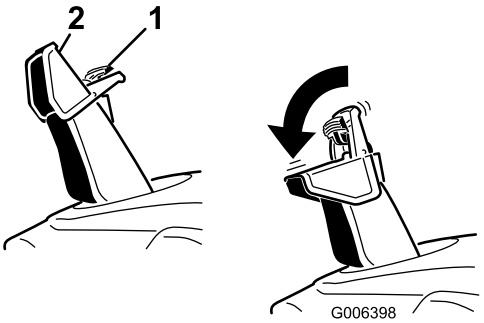


Figure 19

1. Chute deflector trigger
2. Chute deflector

Preventing Freeze-up after Use

- Let the engine run for a few minutes to prevent moving parts from freezing. Stop the engine, wait for all moving parts to stop, and remove ice and snow from the snowthrower.
- Clean off any snow and ice from the base of the chute.
- Rotate the discharge chute left and right to free it from any ice buildup.
- With the ignition key in the Off position, pull the recoil starter handle several times or push the electric start button once (model 38584 only) to prevent the recoil and electric starters from freezing 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.

Operating Tips

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.**

- Remove the snow as soon as possible after it falls.
- If the snowthrower does not propel itself forward on slippery surfaces or in heavy snow, push forward on the handle, but allow the snowthrower to work at its own pace.
- Overlap each swath to ensure complete snow removal.
- Discharge the snow downwind whenever possible.
- If the engine is running normally but the machine does not throw snow as far as it usually does, perform the following steps as needed until the problem is solved:
  1. Check the control cable adjustment and adjust it if necessary; refer to Adjusting the Control Cable.
  2. Inspect the rotor blades for excessive wear (refer to Checking the Rotor Blades), and have an Authorized Dealer replace them if necessary.
  3. Replace the drive belt; refer to Replacing the Drive Belt.
  4. If none of the procedures listed above solves the problem, contact an Authorized Service Dealer.

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	• Check the control cable and adjust it if necessary. • Check for loose fasteners and tighten them if necessary.
Yearly	• Check the control cable and adjust it if necessary. • Inspect the rotor blades and have an Authorized Service Dealer replace the rotor blades and scraper if necessary. • Service the spark plug and replace it if necessary. • Check for loose fasteners and tighten them if necessary. • Have an Authorized Service Dealer inspect the drive belt and replace it if necessary.
Yearly or before storage	• Prepare the snowthrower for storage.

Adjusting the Control Cable

Checking the Control Cable

Service Interval: After the first hour—Check the control cable and adjust it if necessary.

Yearly—Check the control cable and adjust it if necessary.

Move the control bar back toward the handle to remove the slack in the control cable (Figure 20).

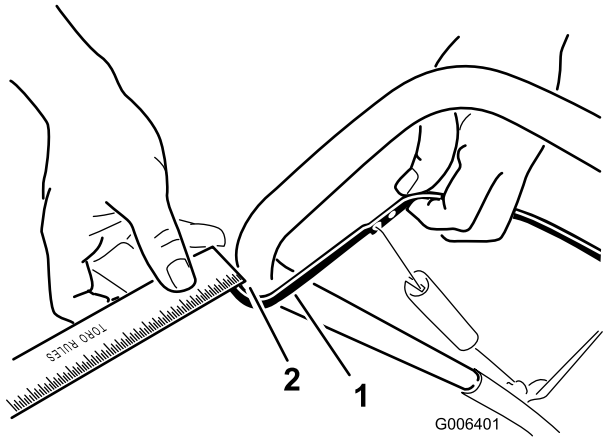


Figure 20

1. Control bar
2. 1/16-inch to 1/8-inch (2 mm to 3 mm) gap

Note: Ensure that a 1/16-inch to 1/8-inch (2 mm to 3 mm) gap exists between the control bar and the handle (Figure 20).

Important: The control cable must contain some slack when you disengage the control bar for the rotor blades to stop properly.

Adjusting the Control Cable

1. Slide up the spring cover and unhook the spring from the adjuster link (Figure 21).

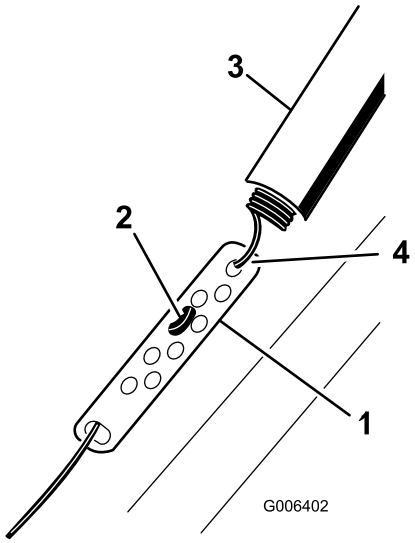


Figure 21

1. Adjuster link
2. Z-fitting
3. Spring cover
4. Unhook the spring here.

Note: You can pull up the adjuster link and cable to make unhooking the spring easier.

2. Move the Z-fitting to a higher or lower hole on the adjuster link as needed to obtain the 1/16-inch to 1/8-inch (2 mm to 3 mm) gap between the control bar and the handle (Figure 20).

   Note: Moving the Z-fitting higher decreases the gap between the control bar and the handle; moving it lower increases the gap.

3. Hook the spring to the adjuster link and slide the spring cover over the adjuster link.
4. Check the adjustment; refer to Checking the Control Cable.

   Note: After extended use, the drive belt may wear and lose its proper belt tension. If the drive belt slips (continuously squeals) under a heavy load, disconnect the spring from the adjustor link and move the upper end of the spring to the hole that is further from the pivot point in the control bar (Figure 22). Then connect the spring to the adjustor link and adjust the control cable.

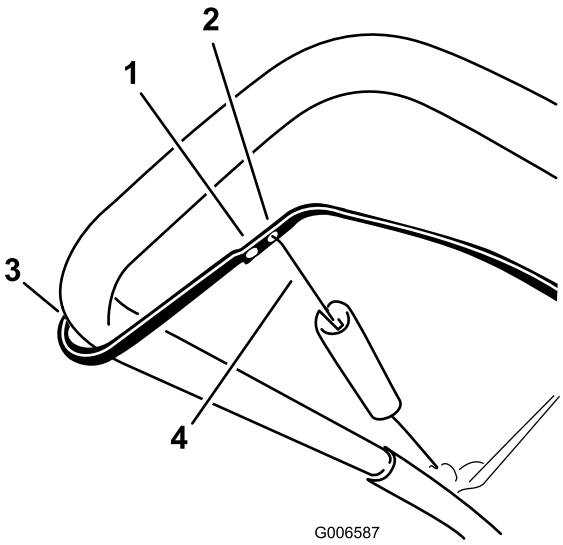


Figure 22

1. Remove the upper end of spring from this hole
2. Insert the upper end of spring into this hole
3. Pivot point
4. Upper end of spring

Note: The belt may slip (squeal) in wet conditions; to dry out the drive system, start the rotor and run it without a load for 30 seconds.

Inspecting the Rotor Blades

Service Interval: Yearly—Inspect the rotor blades and have an Authorized Service Dealer replace the rotor blades and scraper if necessary.

Before each session, inspect the rotor blades for wear. When a rotor blade edge has worn down to the wear indicator hole, have an Authorized Service Dealer replace the rotor blades and the scraper (Figure 23).

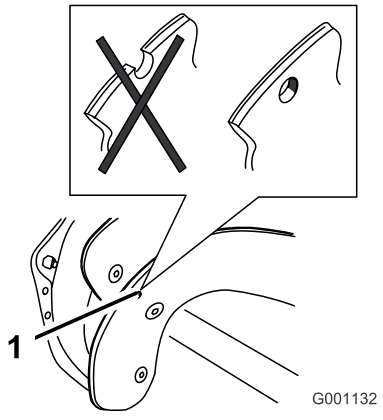


Figure 23

1. Wear indicator hole

Servicing the Spark Plug

Service Interval: Yearly—Service the spark plug and replace it if necessary.

Use a **NGK BPMR4A** spark plug or equivalent.

1. Stop the engine and wait for all moving parts to stop.
2. Rotate the discharge chute so that it faces forward.
3. Remove the discharge chute, the discharge chute handle, and the chute seal by removing the 3 large screws and one small screw (Figure 24).

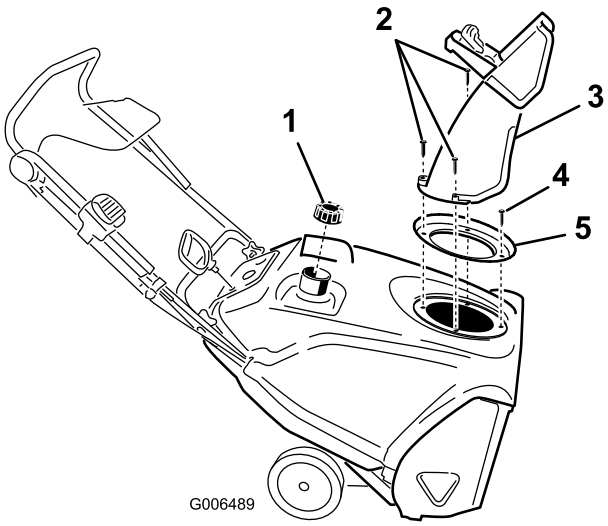


Figure 24

1. Fuel tank cap
2. Large screws (3)
3. Discharge chute
4. Small screw
5. Chute seal

4. Remove the 4 screws that secure the shroud (Figure 24).
5. Remove the fuel tank cap.
6. Remove the shroud (Figure 25).

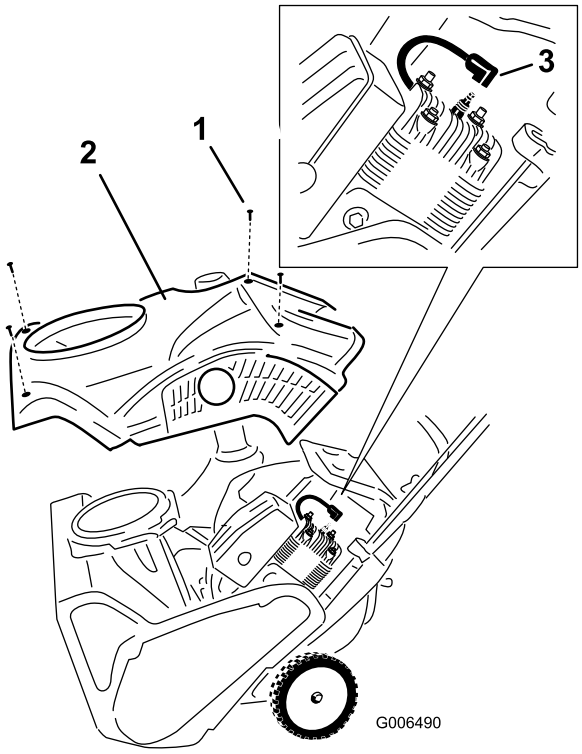


Figure 25

1. Screw (4)
2. Shroud
3. Spark-plug wire

7. Install the fuel tank cap.
8. Disconnect the wire from the spark plug.
9. Clean around the spark plug.
10. Remove the spark plug from the cylinder head.

    Important: Replace a cracked, fouled, or dirty spark plug. Do not clean the electrodes because grit entering the cylinder can damage the engine.

11. Set the gap on the plug to 0.030 inch (0.76 mm) (Figure 26).

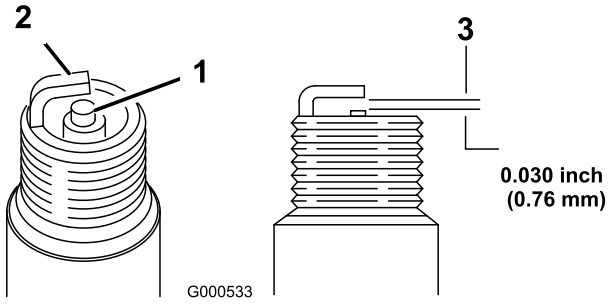


Figure 26

1. Center electrode insulator
2. Side electrode
3. Air gap (not to scale)

12. Install the spark plug and tighten it securely.
13. Connect the wire to the spark plug.
14. Remove the fuel tank cap.
15. Install the shroud with the screws you removed in step 4.

    Note: Ensure that the upper and lower shrouds fit together in the side grooves.

16. Install the fuel tank cap.
17. Install the chute seal, the discharge chute, and the discharge chute handle onto the snowthrower using the hardware you removed in step 3.

    Note: The small screw goes through the small hole in the chute seal at the front of the discharge chute opening.

Replacing the Drive Belt

If drive belt becomes worn, oil-soaked, excessively cracked, frayed, or otherwise damaged, replace the belt.

1. Remove the drive belt cover by removing the 3 bolts as shown in Figure Figure 27.

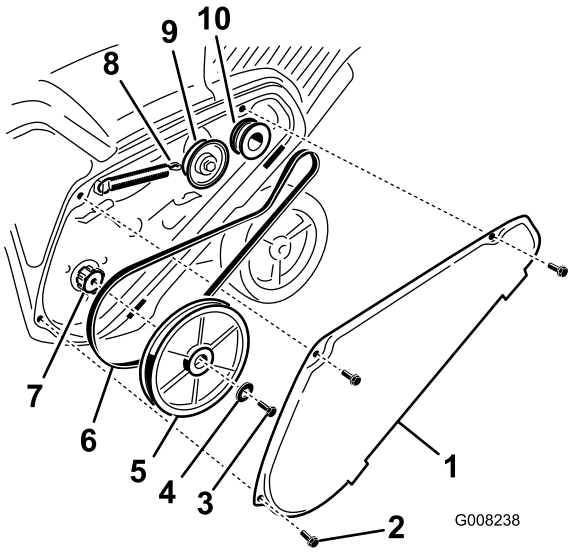


Figure 27

1. Drive belt cover
2. Bolt (3)
3. Rotor pulley bolt
4. Curved washer
5. Rotor pulley
6. Drive belt
7. Rotor shaft
8. Brake spring (unhook from idler arm here)
9. Idler pulley
10. Engine pulley

2. Unhook the brake spring from the idler arm to release the belt tension (Figure 27).
3. Remove the screw and curved washer that holds the rotor pulley (Figure 27).
4. Remove the rotor pulley and the drive belt (Figure 27).
5. Install the new drive belt, routing it as shown in (Figure 28).

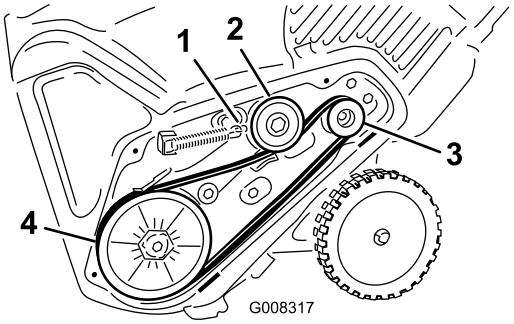


Figure 28

1. Brake spring (install on idler arm here)
2. Idler pulley
3. Engine pulley
4. Rotor pulley

Note: Route the new drive belt first around the engine pulley, then the idler pulley, and finally around the loose rotor pulley positioned just above the rotor shaft (Figure 27).

6. Install the rotor pulley onto the rotor shaft (Figure 27).
7. Install the curved washer and the rotor pulley bolt and tighten them securely (Figure 27).

   Note: The concave side of the curved washer goes against the outside of the pulley.

8. Install the brake spring onto the idler arm (Figure 28).
9. Install the drive belt cover with the bolts you removed in step 1.

   Note: Ensure that the drive belt is properly adjusted and operating; refer to Checking the Control Cable and Adjusting the Control Cable.

Adjusting the Quick Shoot™ Control

If there is more than 1/2 inch (13 mm) of slack in the Quick Shoot cable when you pull on the lower cable casing (Figure 29) or the discharge chute does not rotate left and right in equal angles, adjust the Quick Shoot control cables.

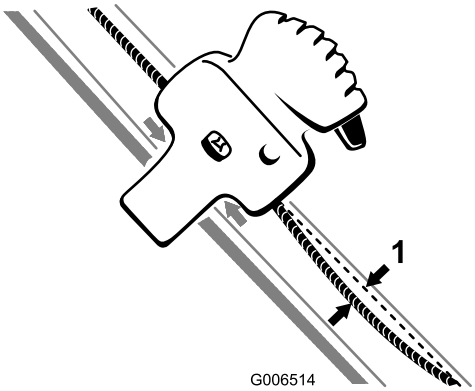


Figure 29

1. 1/2 inch (13 mm) maximum

1. Loosen the two Quick Shoot control cable clamps (Figure 30).

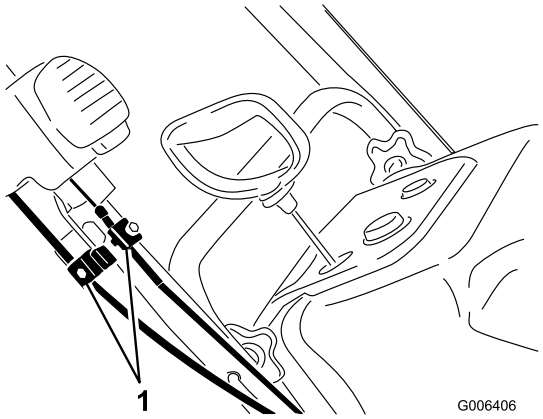


Figure 30

1. Cable clamps

2. Position the Quick Shoot control between the two arrows located on the right hand side of the upper handle (Figure 31).

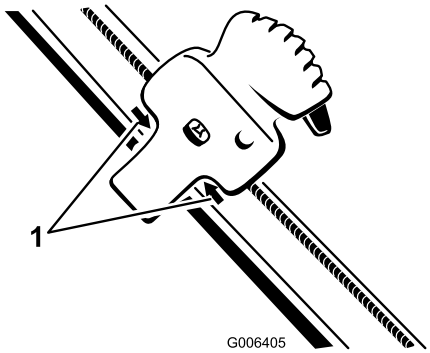


Figure 31

1. Arrows

3. Rotate the discharge chute so that it faces straight ahead and the arrow on the back of the discharge chute aligns with the arrow on the shroud (Figure 32).

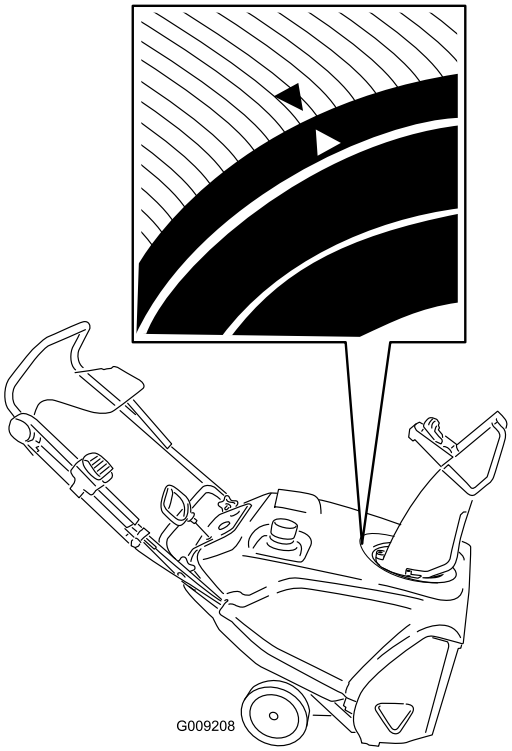


Figure 32

4. Hold the discharge chute in the straight-ahead position, pull the lower cable casing downward until you remove all the slack from the cable, and tighten the screw on the lower cable clamp securely (Figure 33).

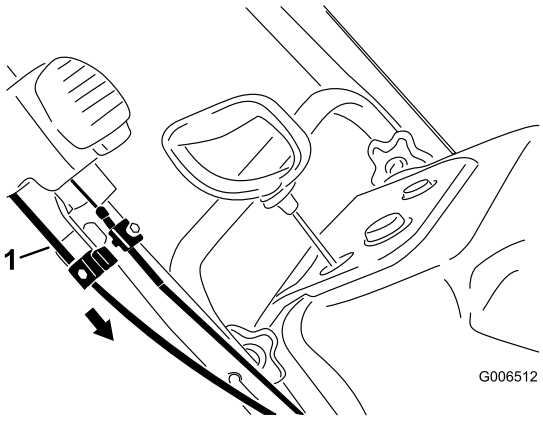


Figure 33

1. Lower cable casing

5. Pull the upper cable casing forward until you remove all the slack from the cable, and tighten the screw on the upper cable clamp securely (Figure 34).

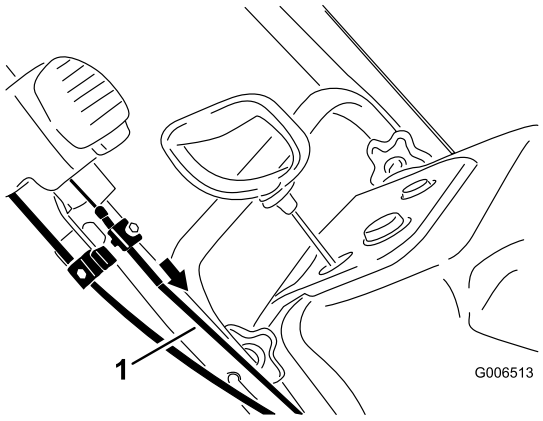


Figure 34

1. Upper cable casing

Note: Do not over-tension the cables. If the cables are over-tensioned, the Quick Shoot will be hard to operate.

Storage

Storing the Snowthrower



- **Gasoline fumes are highly flammable, explosive, and dangerous if inhaled. If you store the product in an area with an open flame, the gasoline fumes may ignite and cause an explosion.**
- **Do not store the snowthrower 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 like appliances.**

Important: Do not use the chute handle to lift the snowthrower. This can damage the chute handle.

1. Add a fuel stabilizer/conditioner to the fuel in the fuel tank as directed by the engine manufacturer.
2. Run the engine for 5 minutes to distribute the conditioned fuel through the fuel system.
3. Stop the engine and allow it to cool.
4. Use a hand pump to pump the fuel from the fuel tank into an approved fuel container, or run the engine until it stops.
5. Start the engine and run it until it stops.
6. Choke or prime the engine, start it a third time, and run the engine until it will not start.
7. Slowly pull the recoil starter until you feel resistance due to compression pressure, then stop.
8. Release the starter tension gradually by allowing the rope to go back slowly to prevent the engine from the reversing due to compression pressure.
9. Dispose of unused fuel properly. Recycle it accordingly to local codes, or use it in your automobile.

   Note: Do not store stabilized fuel for more than 90 days.
10. Clean the snowthrower.
11. Tighten any loose fasteners. Repair or replace any damaged parts.
12. Cover the snowthrower 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.

Notes:

Notes:

CCR 2450
Power Clear
Snow Commander

The Toro 5-Year GTS Starting Guarantee and The Toro 2-Year Total Coverage Guarantee

A Full Warranty (Limited Warranty for Commercial Use)

Conditions and Products Covered under The Toro Starting Guarantee

The Toro Company and its affiliate, Toro Warranty Company, guarantee that your Toro GTS (Guaranteed to Start) engine, when used for residential purposes*, will start on the first or second pull for five (5) years from the date of purchase, if you provide the routine maintenance it requires, or we will fix it free of charge.

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

Guaranteed to Start	Warranty Period
CCR 2450	5-years
Power Clear	5-years
Snow Commander	5-years

Conditions and Products Covered under The Toro Total Coverage Guarantee

The Toro Company and its affiliate, Toro Warranty Company, promise to repair any Toro Product used for residential purposes* if defective in materials or workmanship or if it stops functioning due to the failure of a component for a period of two (2) years from the date of purchase.

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:

Snow Product	Warranty Period
CCR 2450	2-year Full warranty
Power Clear	2-year Full warranty
Snow Commander	2-year Full warranty

Limited Warranty for Commercial Use

Gas-powered Toro Snowthrowers used for commercial, institutional, or rental use are warranted for 45 days against defects in materials or workmanship.

Instructions for Obtaining Warranty Service

If you think that your Toro Product contains a defect in materials or workmanship, or if a normal, able-bodied adult can no longer start your product's engine in one or two pulls, follow this procedure:

1. Contact any Toro Authorized or Master 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 our Toro Customer Care Department toll free at 866-336-5205 (U.S. customers) or 866-854-9033 (Canadian customers).
2. Bring the product and your proof of purchase (sales receipt) to the Service Dealer.

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
Toro Warranty Company
8111 Lyndale Avenue South
Bloomington, MN 55420-1196
866-336-5205 (U.S. customers)
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. This express warranty does not cover the following:

- Cost of regular maintenance service or parts, such as filters, fuel, lubricants, oil changes, spark plugs, cable/linkage adjustments, or brake and clutch adjustments
- Any product or part which has been altered or misused or required replacement or repair due to accidents or lack of proper maintenance
- Repairs necessary due to electrical supply irregularities
- Pickup and delivery charges
- Operational misuse, neglect, or accidents
- Repairs or attempted repairs by anyone other than a Toro Service outlet
- Repairs or adjustments to correct starting difficulties due to the following:
  - failure to follow proper maintenance procedures
  - snowthrower auger/paddles striking an object
  - contaminants in the fuel system
  - improper fuel or fuel/oil mixture (consult your *Operator's Manual* if in doubt)
  - failure to drain the fuel system prior to any period of non-use over three months
- Special operational conditions where starting may require more than two pulls:
  - first time starts after extended period of non-use over three months or seasonal storage
  - improper starting procedures

If you are having difficulty starting your unit, please check the *Operator's Manual* to ensure that you are using the correct starting procedures. This can save an unnecessary visit to a Service Dealer.

General Conditions

All repairs covered by these warranties must be performed by an Authorized or Master Toro Service Dealer using Toro approved replacement parts. Repair by a Toro Service Dealer is your sole remedy under these warranties. **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. Some states do not allow exclusions of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions and limitations 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 is considered commercial use, and the commercial use warranty would apply.

Part Number 374-0059 Rev. B