



CCR POWERLITE[®] Snowthrower

Model No. 38170—200000001 and Up

Model No. 38172—200000001 and Up

Model No. 38182—200000001 and Up

Operator's Manual

Pour obtenir gratuitement une version en français de ce manuel, écrivez à l'adresse ci-dessous. N'oubliez pas d'indiquer les numéros de modèle et de série de votre produit.

The Toro Company, Attn: Parts Dept., 8111 Lyndale Ave S, Bloomington, MN 55420-1196

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WARNING



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

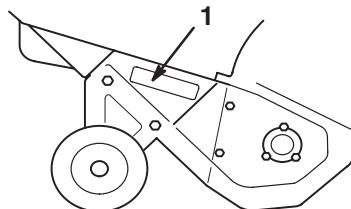
Introduction

Thank you for choosing a Toro product. We want you to be completely satisfied with your new purchase.

Read this manual carefully to learn how to operate and maintain your product properly. The information in this manual can help you and others avoid injury and product

damage. Although Toro designs and produces safe products, you are responsible for operating the product properly and safely.

Whenever you contact your Authorized Service Dealer or the factory for help with service, genuine Toro parts, or additional information, have the model number and the serial number of your product handy. You will find the model number and serial number decal on the product as illustrated in Figure 1.



2121

Figure 1

1. Model number and serial number decal

Write the product model number and serial number in the space below:

Model No. _____

Serial No. _____

This manual identifies potential hazards and has special safety messages that help you and others avoid personal injury and even death. **DANGER**, **WARNING**, and **CAUTION** are words used to identify the level of hazard.

DANGER signals an extreme hazard that will cause serious injury or death if you do not follow the recommended precautions.

WARNING signals a hazard that may cause serious injury or death if you do not follow the recommended precautions.

CAUTION signals a hazard that may cause minor or moderate injury if you do not follow the recommended precautions.

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

Safety

To ensure maximum safety, best performance, and to gain knowledge of the product, it is essential that you and any other operator of the snowblower read and

understand the contents of this manual before the motor is ever started. Pay particular attention to the safety alert symbol  which means CAUTION, WARNING, OR DANGER — “personal safety instruction.” Read and understand the instruction because it has to do with safety. Failure to comply with instruction may result in personal injury.

The snowblower is designed and tested to offer reasonably safe service; however, **failure to comply with the following instructions may result in personal injury.**

General Snowblower Safety

The following instructions have been adapted from the ANSI/OPEI standard B71.3—1995 and ISO standard 8437:1989. Information or terminology specific to Toro snowblowers is enclosed in parenthesis.

Training

- Read the operator’s manual carefully. 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 and pets.
- Exercise caution to avoid slipping or falling, especially when operating in reverse.

Preparation

- Thoroughly inspect the area where the equipment 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 equipment without wearing adequate winter garments. Wear footwear which 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 or hot engine.
 - Fill fuel tank outdoors with extreme care. Never fill fuel tank indoors.
 - Replace gasoline caps securely and wipe up spilled fuel.

- Use only the power cord supplied with the snowblower and a receptacle appropriate for use with the cord for electric starting motors.
- Adjust the collector (auger) housing height to clear gravel or crushed rock surface (this is not necessary on single-stage snowblowers).
- Never attempt to make any adjustments while the engine is running, except where specifically recommended by manufacturer (Toro).
- Let engine and machine adjust to outdoor temperatures before starting to clear snow.
- The operation of any powered machine can result in foreign objects being thrown into the eyes. Always wear safety glasses or eye shields during operation or while performing an adjustment or repair.

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 snowblower for any damage, and repair the damage before restarting and operating the snowblower.
- 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 collector (auger)/impeller housing or discharge guide (chute), and when making any repairs, adjustments, or inspections.
- When cleaning, repairing, or inspecting, make certain the collector/impeller (auger/impeller or rotor blades) 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. Disconnect the cable on electric motors.
- Do not run the engine indoors, except when starting it and for moving the snowblower in or out of the building. Open the outside doors; exhaust fumes are dangerous.
- Do not clear snow across the face of slopes. Exercise extreme caution when changing direction on slopes. Do not attempt to clear steep slopes.
- Never operate the snowblower without proper guards, plates or other safety protective devices in place.

- Never operate the snowblower near glass enclosures, automobiles, window wells, drop-offs, etc. without proper adjustment of the snow discharge angle. Keep children and pets 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 moving in reverse.
- Never direct discharge at bystanders or allow anyone in front of the unit.
- Disengage power to the collector/impeller (auger/impeller or rotor blades) when snowblower is transported or not in use.
- Use only attachments and accessories approved by the manufacturer of snowblower (Toro), such as wheel weights, counterweights, cabs, etc. (Refer to your Authorized Service Dealer for accessories available for your snowblower.)
- Never operate the snowblower without good visibility or light. Always be sure of your footing, and keep a firm hold on the handles. Walk; never run.

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 and space heaters, clothes dryers, etc. Allow the engine to cool before storing in any enclosure.
- Always refer to this operator's manual for important details if the snowblower 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 collector (auger)/impeller. (With the engine running, pull the recoil starter handle several times.)

Toro Snowblower Safety

The following list contains safety information specific to Toro products or other safety information that you must know that is not included in the ANSI or ISO standards.

- **The rotating impeller/auger or rotor blades can cut off or injure fingers or hands.** Stay behind the handles and away from the discharge opening while

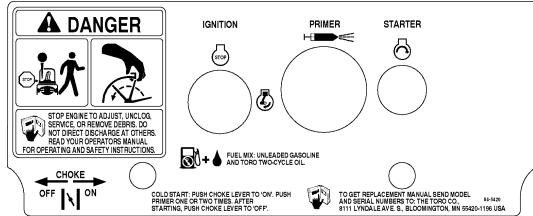
operating the snowblower. **Keep your face hands, feet, and any other part of your body or clothing away from concealed, moving, or rotating parts.**

- Before adjusting, cleaning, repairing, and inspecting the snowblower, and before unclogging the discharge chute, **stop the engine, remove the key, and wait for all moving parts to stop.** Also, pull the wire off of the spark plug and keep it away from the plug to prevent someone from accidentally starting the engine.
- Use a stick, **not your hands** to remove obstructions from the discharge chute.
- **Before** leaving the operator's position behind the handles, stop the engine, remove the key, and wait for all moving parts to stop.
- Do not wear loose fitting clothing that could possibly get caught in moving parts.
- 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.
- For two-stage snowblowers, use the lower gear and, if applicable, the rear wheel position when operating on slopes.
- **Do not** use the snowblower on a roof.
- Do not touch the engine while it is running or soon after it is stopped because the engine will be hot enough to cause a burn. Do not add oil or check the oil level in the crankcase when the engine is running.
- Perform only those maintenance instructions described in this manual. Before performing any maintenance, service, or adjustment, stop the engine, remove the key and pull the wire from the spark plug, keeping it away from the plug to prevent someone from accidentally starting the engine. If major repairs are ever needed, contact your Authorized Service Dealer.
- Do not over speed the engine by changing the governor settings.
- When storing the snowblower for more than 30 days, drain the gasoline from the fuel tank to prevent a potential hazard. Store gasoline in a safety approved, red metal container. Remove the key from the ignition switch before storing the snowblower.
- To ensure the best performance and safety, purchase only genuine Toro replacement parts and accessories to keep the Toro all Toro. **Do not use "Will Fit" replacement parts and accessories as they could cause a safety hazard.**

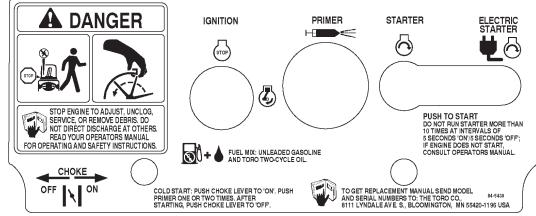
Safety and Instruction Decals



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



On Control Panel (Models 38170 and 38172)
(Part No. 84-5420)



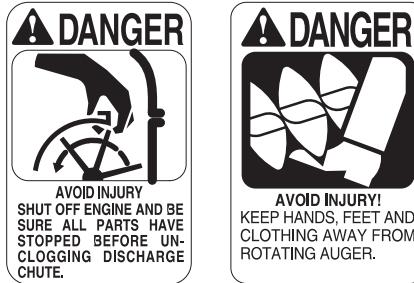
On Control Panel (Model 38182)
(Part No. 84-5430)



On Right Side of Near Muffler
(Part No. 95-1904)



On Back of Chute (Model 38182)
(Part No. 61-4790)



Replace Discharge Chute
(Part No. 75-8760)

Assembly

Note: Determine the left and right sides of the snowthrower by standing in the normal operating position.

Loose Parts

DESCRIPTION	QTY.	USE
Hex bolts	2	
Locknuts	2	
Washers	2	Installing the discharge chute
Discharge chute	1	
Upper handle	1	
Knobs	2	
Oval head bolts	2	Installing the handle
Curved washers	2	

Installing the Discharge Chute

1. Position the holes on the discharge chute over the hex bolts on the sides of the chute handle (Fig. 2).
2. Secure the discharge chute onto the hex bolts with two washers and two locknuts (Fig. 2).
3. While holding the hex bolt heads with a 7/16 in. (11 mm) wrench, tighten the locknuts securely.
4. Rotate the discharge chute to the upright position.
5. Install the knob **tightly** onto the screw at the rear of the discharge chute (Fig. 2).

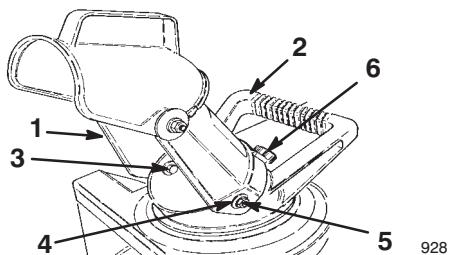


Figure 2

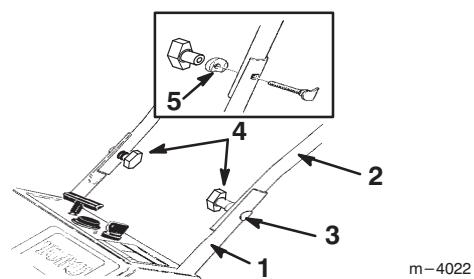
1. Discharge chute	4. Washer
2. Chute handle	5. Locknut
3. Hex bolt	6. Knob

Installing the Handle

1. Position the ends of the upper handle on the inside of the lower handles and align the holes (Fig. 3).
2. Secure the upper handle to the lower handle using oval head bolts, curved washers, and knobs (Fig. 3).

3. Position the knobs and curved washers on the inside of the handle and **tighten the knobs securely**.

Note: Ensure that you properly align the oval head bolts and the curved washers (See inset in Fig. 3).



m-4022

Figure 3

1. Lower handle	4. Knob
2. Upper handle	5. Curved washers
3. Oval head bolt	

Before Starting

Mixing Gasoline and Oil

Use only clean, fresh, unleaded gasoline (including oxygenated or reformulated gasoline) with an octane rating of 87 or higher. To ensure freshness, purchase only the amount of gasoline you expect to use in 30 days. Using unleaded gasoline results in fewer combustion chamber deposits and longer spark plug life.

IMPORTANT: Engines which are certified to comply with California and U.S. EPA emission regulations for ULGE engines can operate on regular unleaded

gasoline/oil mix. Include the following emission control system(s): EM, TWC (if so equipped). Do not include any user adjustable features; no further adjustments are needed.

IMPORTANT: Do not use methanol, gasoline containing methanol, gasohol containing more than 10% ethanol, premium gasoline, or white gas. Using these fuels can damage the engine's fuel system.

IMPORTANT: Do not use an automotive oil (i.e., SAE 30, 10W30), a two-cycle oil that is not NMMA- or TCW-certified, or a fuel mixed at the wrong gasoline/oil ratio. This can cause engine damage not covered under the Toro warranty.

DANGER

POTENTIAL HAZARD

- In certain conditions, gasoline is extremely flammable and highly explosive.

WHAT CAN HAPPEN

- A fire or explosion from gasoline can burn you and others and cause property damage.

HOW TO AVOID THE HAZARD

- Use a funnel and fill the fuel tank in an open, outdoor area and when the engine is cold. Wipe up any gasoline that spills.
- Do not fill the fuel tank completely full. Add gasoline to the fuel tank until the level is 1/4 to 1/2 in. (6 mm to 13 mm) below the bottom of the filler neck. This empty space in the tank allows the gasoline to expand.
- Never smoke when handling gasoline, and stay away from an open flame or where gasoline fumes may be ignited by a spark.
- Store gasoline in an approved container and keep it out of the reach of children.
- Never buy more than a 30-day supply of gasoline.

DANGER

POTENTIAL HAZARD

- When fueling, under certain circumstances, a static charge can develop, igniting the gasoline.

WHAT CAN HAPPEN

- A fire or explosion from gasoline can burn you and others and cause property damage.

HOW TO AVOID THE HAZARD

- Always place gasoline containers on the ground away from your vehicle before filling.
- Do not fill gasoline containers inside a vehicle or on a truck or trailer bed because interior carpets or plastic truck bed liners may insulate the container and slow the loss of any static charge.
- When practical, remove gas-powered equipment from the truck or trailer and refuel the equipment with its wheels on the ground.
- If this is not possible, then refuel such equipment on a truck or trailer from a portable container, rather than from a gasoline dispenser nozzle.
- If a gasoline dispenser nozzle must be used, keep the nozzle in contact with the rim of the fuel tank or container opening at all times until fueling is complete.

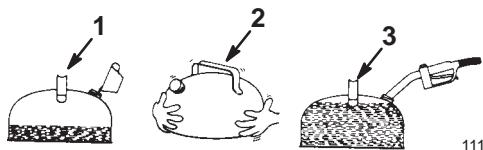
1. Pour a half gallon (1.9 liters) of gasoline into an approved gasoline container (preferably plastic, not metal).

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.

2. Add the proper amount of a high grade, NMMA- or TCW-certified two-cycle oil as directed on the container label.

For best results, use *Toro Heavy Duty 50:1 All Season 2-Cycle Engine Oil with Fuel Stabilizer*.

3. Install the cap on the gasoline container and shake the container to mix the gasoline and oil thoroughly.
4. Remove the cap and add the remaining gasoline.



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Figure 4

1. Add oil to small amount of gasoline
2. Install cap and shake can to mix
3. Add remaining amount of gasoline

We recommend using a fuel stabilizer/conditioner for all Toro gasoline-powered products during operation and storage. A fuel stabilizer/conditioner cleans the engine during operation and prevents gum-like varnish deposits from forming in the engine during storage. A fuel stabilizer/conditioner works best when you mix it with fresh gasoline.

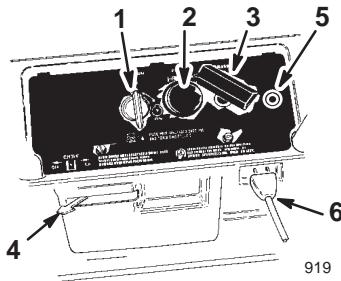
Note: If you use *Toro Heavy Duty 50:1 All Season 2-Cycle Engine Oil with Fuel Stabilizer*, you do not need to add a fuel stabilizer/conditioner.

IMPORTANT: Do not use fuel additives except a fuel stabilizer during storage. We recommend that you do not use fuel stabilizers with an alcohol base such as ethanol, methanol, or isopropanol.

Operation

Operating Controls

The snowthrower control panel contains a key switch, a primer, an electric start button (if applicable), and a recoil starter. The choke lever is just below the lower left corner of the control panel (Fig. 5).



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Figure 5

1. Key switch
2. Primer
3. Recoil start
4. Choke lever
5. Electric start button*
6. Cord connection*

* Model 38182 only

Starting the Engine

1. Turn the key to the On position.
2. Turn the choke level to the On (far right) position.
3. Cover the hole in the center of the primer button with your thumb and slowly push the primer button in twice. In extremely cold temperatures, repeat this step as necessary.

Note: Do not use the choke and the primer when starting a warm engine.

Note: When you start the engine for the first time or after running out of fuel, you may need to use the primer more.

4. **For a recoil starter:** Hold the snowthrower with one hand and pull the recoil starter vigorously with the other hand.

For an electric starter:

- A. Connect the power cord to the snowthrower and to a standard household power outlet.
- B. Push the starter button.

Run the electric starter no more than ten times at intervals of five seconds on, then five seconds off. If the engine does not start after this attempt, wait at least 40 minutes to allow the starter to cool before attempting to start it again.

IMPORTANT: Running the electric starter extensively can overheat and damage the starter.

If the engine does not start after the second attempt, bring the snowthrower to an Authorized Service Dealer for service.

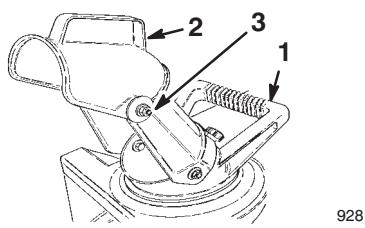
- C. When the engine starts, disconnect the power cord from the snowblower and the outlet.
- 5. After warming up the engine, move the choke lever to the Off position.

Stopping the Engine

Turn the key to the Off position and wait for all moving parts to stop before leaving the operating position.

Adjusting the Discharge Chute

Move the chute handle left and right to adjust the direction of the snow stream (Fig. 6). The chute deflector handle on top of the discharge chute controls the height of the snow stream. **Do not overtighten the chute deflector mounting nuts.**



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Figure 6

- 1. Chute handle
- 2. Chute deflector handle
- 3. Deflector mounting nuts

Throwing Snow

WARNING

POTENTIAL HAZARD

- Stones, toys and other foreign objects may be picked up and thrown by the rotor blades.

WHAT CAN HAPPEN

- Thrown objects can cause serious personal injury to operator or bystanders.

HOW TO AVOID THE HAZARD

- Keep the area to be cleared free of all objects that could be picked up and thrown by rotor blades.
- Keep all children and pets away from area of operation.

- The snowblower clears down to the ground and propels itself forward when you raise the handle. The snowblower tilts **slightly** forward so that rotor blades

strike the ground. The wheels do not need to touch the ground to self-propel. The more you tilt the handle forward, the faster the snowblower self-propels.

- Always overlap each swath and discharge the snow downwind whenever possible.
- To clear snow from crushed rock or gravel, push down on the handle to raise the rotor blades clear of the loose material and push the snowblower forward.
- In snowy and cold conditions, some controls and moving parts may freeze solid. **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 clearing the snow, let the engine run for a few minutes to prevent moving parts from freezing. Shut off the engine and remove all ice and snow from the snowblower.

IMPORTANT: Store the snowblower in its operating position and on its wheels or hang it on a wall by its handle. Storing the snowblower on its front housing may cause hard starting.

Folding the Snowblower

DANGER

POTENTIAL HAZARD

- Gasoline and its fumes are highly flammable, explosive, and dangerous if inhaled.

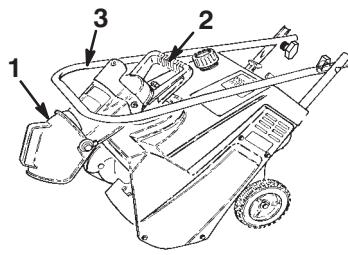
WHAT CAN HAPPEN

- If gasoline contacts a flame or is inhaled, serious personal injury can occur.

HOW TO AVOID THE HAZARD

- Always remove gasoline from snowblower fuel tank before transporting in a closed car trunk or vehicle; refer to *Emptying the Fuel Tank* on page 10.

1. Remove the knob from the rear of the discharge chute (Fig. 2).
2. Fold the discharge chute down and install the knob tightly onto the bolt at the rear of the discharge chute handle (Fig. 7).
3. Loosen the knobs on the handle and fold the handle down over the snowblower (Fig. 7).
4. Carry the snowblower by its discharge chute handle (Fig. 7).



m-4023

Figure 7

1. Discharge chute	3. Handle
2. Discharge chute handle	

Maintenance

Recommended Maintenance Schedule

Service Item	Service Operation	Initial	At Storage	Comments
Fuel tank	Drain the fuel and run the engine until the fuel tank and the carburetor are dry.		X	
Scraper	Check the scraper. Replace if necessary.		X	
Drive belt	Inspect the drive belt. Replace if necessary.		X	
Spark plug	Clean, inspect, and gap. Replace if necessary.		X	
Rotor blades	Inspect the rotor blades. Replace if necessary.		X	
Tighten fasteners	Check for loose fasteners and tighten them if necessary.	X	X	Tighten fasteners as needed.

 **CAUTION** 

POTENTIAL HAZARD

- If you leave the wire on the spark plug, someone could start the engine.

WHAT CAN HAPPEN

- Someone accidentally starting the engine could seriously injure you or other bystanders.

HOW TO AVOID THE HAZARD

- Pull the wire off of the spark plug before you do any maintenance. Also, push it aside so it does not accidentally contact the spark plug.

Emptying the Fuel Tank

1. Stop the engine and remove the key from the switch.
2. Remove the fuel tank cap and use a pump-type syphon to drain the fuel into a clean and approved gasoline container.

3. Start the engine and allow it to run until it consumes all the fuel in the fuel tank and stops. Repeat this step two more times to ensure that the fuel tank and the carburetor are empty.

Replacing the Scraper

Before each season, inspect the scraper for wear. If the thickness of the scraper's bottom is less than 1/16 in. (1.6 mm), replace the scraper (Fig. 8).

1. Stop the engine and remove the key from the switch.
2. Pull the wire off the spark plug.
3. Remove the three screws that hold the scraper in place.

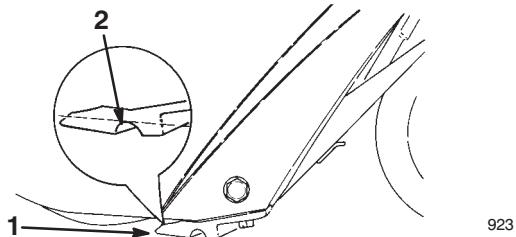


Figure 8

1. Scraper
2. Wear indicator groove

4. Remove the scraper.
5. Secure the new scraper to the housing with the three screws.

Replacing the Drive Belt

Inspect the drive belt before each season, and replace it if it is worn or damaged.

1. Stop the engine and remove the key from the switch.
2. Pull the wire off the spark plug.
3. Remove the three self-tapping screws, one capscrew, one washer, and one nut that secure the left side cover to the snowblower frame (Fig. 9).

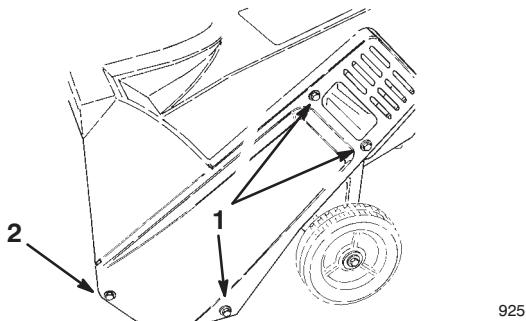


Figure 9

1. Self tapping screws
2. Capscrew, nut, washer

4. Remove the cover.

5. Pull the idler pulley up slightly while pulling out the drive belt. Allow the pulley to gradually release when it can move past the belt (Fig. 10).
6. Rotate the rotor and work the drive belt off the rotor pulley. The belt should slide easily off the drive pulley (Fig. 10).
7. Loop the new drive belt around the drive pulley. While holding the drive belt, slip it onto the rotor pulley and rotate the rotor until the drive belt is completely on the rotor pulley (Fig. 10).

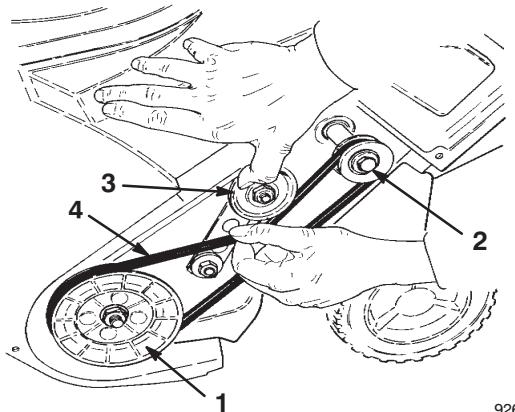


Figure 10

1. Rotor pulley
2. Drive pulley
3. Idler pulley
4. Drive belt

Make sure that the long end of the idler spring is hooked in the housing notch and the round end of the spring is hooked on the pin on the back of the idler pulley (Fig. 11).

8. Lift up the idler pulley arm assembly, squeeze the belt together, and route the belt under the idler pulley (Fig. 11).

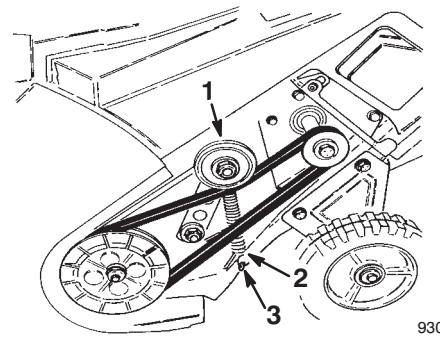


Figure 11

1. Idler pulley
2. Idler spring
3. Notch

9. Install the drive belt cover and tighten the fasteners securely, but **do not overtighten**.

Replacing the Spark Plug

Before each season, check the spark plug. If the electrodes in the center of the plug are dark or have deteriorated, install a new NGK BPMR4A spark plug.

1. Remove the two screws that secure the control panel to the housing (Fig. 12).

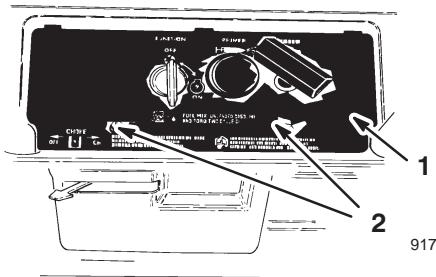


Figure 12

1. Control panel 2. Screws

2. Remove the ignition key and lift off the panel, allowing it to hang on the recoil rope.
3. Pull the wire off the spark plug and remove the spark plug (Fig. 13).

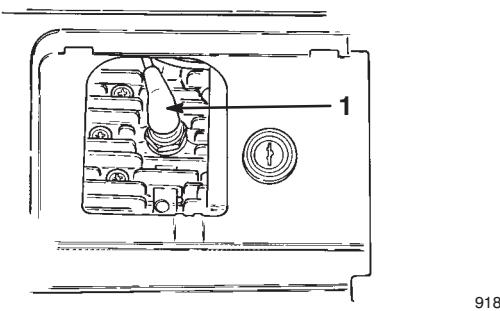


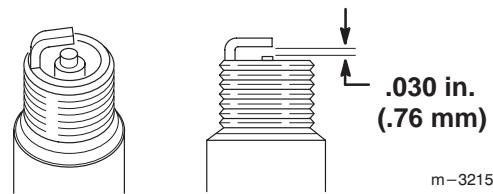
Figure 13

1. Spark plug wire

4. Examine the spark plug and replace it if it is cracked, fouled, or dirty.

IMPORTANT: Do not sandblast, scrape, or the clean spark plug. Dirt may fall into the cylinder and cause engine damage.

5. Set the gap between the electrodes at .030 in. (.76 mm). Install the plug and tighten to 15 ft-lb (20.4 N·m). If you do not have a torque wrench, tighten the plug firmly.



6. Push the wire onto the spark plug.
7. Install the control panel with the screws.

Replacing the Rotor Blades

Before each season, inspect the rotor blades for wear. When a rotor blade edge has worn to the wear indicator hole (Fig. 14), replace **both** rotor blades to ensure proper performance and to prevent damage to the underside of the snowblower.

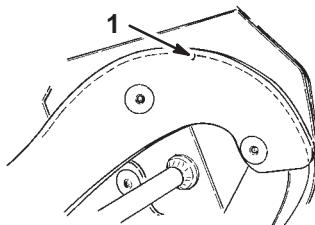


Figure 14

1. Wear indicator hole

Note: Replace the scraper whenever you replace the rotor blades. This ensures proper snowblower operation and performance.

Note: The running time and the roughness of the driveway or the sidewalk determines the wear rate of the rotor blades.

Removing the Old Blade

Note: You will need a T27 torx driver to complete this procedure.

1. Remove four torx screws, two caps screws, and six locknuts that secure the blade to the rotor shaft assembly.
2. Slide the blade out from between the blade supports (Fig. 15).

Installing a New Blade

1. Examine a new rotor blade edge for the difference in layer thickness (Fig. 15). Some rotor blades have a part number on the thick side of the blade.

Install the rotor blades with the thick layer on the **inside** of the curve. (Fig. 15). If you do not install the blades properly, the blades may be out of balance and cause the snowthrower to “hop” or “bounce.”

2. Insert the new blade between the blade supports.
3. Secure the center of the blade to the blade supports with two capscrews and two locknuts.
4. Position the screw heads on the thick layer side of the blade (Fig. 15).

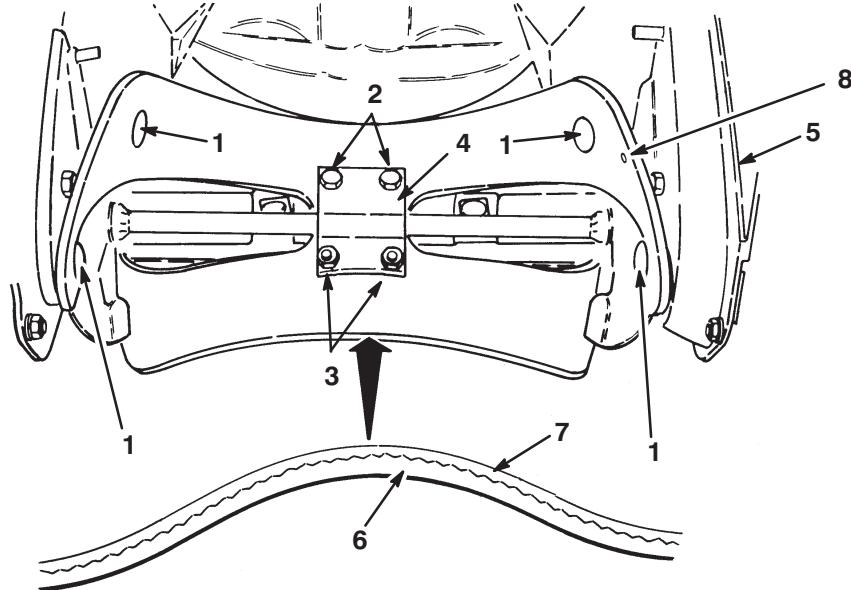


Figure 15

1. Torx screw	5. Drive belt cover
2. Capscrew	6. Thick layer
3. Locknut	7. Thin layer
4. Blade support	8. Wear indicator hole

Storage

Preparing the Fuel System

1. Add a fuel stabilizer/conditioner to the fuel in the fuel tank as directed.

Note: A fuel stabilizer/conditioner works best when you mix it with fresh gasoline.

Note: If you use *Toro Heavy Duty 50:1 All Season 2-Cycle Engine Oil with Fuel Stabilizer*, you do not need to add a fuel stabilizer/conditioner.

2. Run the engine for five minutes to distribute the conditioned fuel through the fuel system.
3. Stop the engine, allow it to cool, and drain the fuel tank.
4. Start the engine again and run it until it stops.

5. Curve the blade and secure it with the remaining four torx screws and locknuts, positioning the screw heads on the thick layer side of the blade (Fig. 15).
6. Tighten all screws and nuts securely.
7. Repeat steps 1 through 6 above to replace the other blade.

5. Drive belt cover
6. Thick layer
7. Thin layer
8. Wear indicator hole

5. Either choke or prime the engine, start it a third time, and run it until it will not restart.
6. Recycle the fuel according to local codes.

Preparing the Engine

This procedure allows you to close both the intake and exhaust ports of the engine, preventing cylinder bore corrosion.

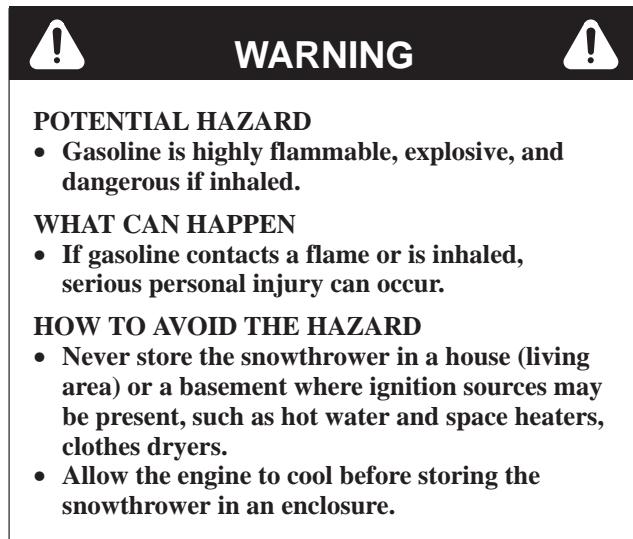
1. Slowly pull the recoil starter until you feel resistance due to compression pressure, then stop.
2. Release the starter tension slowly to prevent the engine from reversing due to compression pressure.

Tightening the Fasteners and Cleaning the Snowthrower

1. Tighten all loose screws, bolts, and locknuts. Repair or replace damaged parts.
2. Clean the snowthrower thoroughly.

Covering and Storing the Snowthrower

Cover the snowthrower and store it in a clean, dry place out of the reach of children.





Gas Powered
Snow
Products

The Toro Total Coverage Guarantee

A Full Two-Year Warranty
(Limited Warranty for Commercial Use)

What Is Covered By This Express Warranty?

The Toro Company promises to repair any Toro Product used for normal residential purposes* if defective in materials or workmanship for a period of two years from the date of purchase. For single stage snowthrowers, the cost of parts and labor is included, but the customer pays the transportation costs.

Transportation within a 15 mile radius of the servicing dealer is covered under this warranty for two-stage snowthrowers.

What Products Are Covered By This Warranty?

This warranty applies to all gasoline powered snow products.

How About Commercial Use?

Toro Consumer Products used for commercial, institutional or rental use are covered by a limited warranty for 45 days from the date of purchase.

How Do You Get Warranty Service?

Should you feel your Toro Product contains a defect in material or workmanship, contact the dealer who sold you the product or any Authorized Toro Service Dealer or Toro Master Service Dealer. The Yellow Pages of your telephone directory is a good reference source. The dealer will either arrange service at his/her dealership or recommend another Authorized Service Dealer who may be more convenient. You may need proof of purchase (copy of registration card, sales receipt, etc.) for warranty validation.

If for any reason you are dissatisfied with the Service Dealer's analysis of the defect in materials or workmanship or if you need a referral to a Toro Service Dealer, please feel free to contact us at the following address:

Toro Customer Service Department
8111 Lyndale Avenue South
Bloomington, MN 55420-1196
612-888-8801
800-348-2424

What Must You Do To Keep The Warranty In Effect?

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.

What Does This Warranty Not Cover?

and

How Does Your State Law Relate To This Warranty?

There is no other express warranty except for special emission system coverage on some products and the Toro Starting Guarantee on GTS Engines. This express warranty does not cover:

- Cost of regular maintenance service or parts, such as filters, fuel, lubricants, tune-up parts, blade sharpening, brake and clutch adjustments.
- Any product or part which has been altered or misused or required replacement or repair due to normal wear, accidents, or lack of proper maintenance.
- Repairs necessary due to improper fuel, contaminants in the fuel system, or failure to properly prepare the fuel system prior to any period of non-use over three months.
- Pickup and delivery charges for distances beyond a 15 mile radius from an Authorized Toro Service Dealer (covered products only).

All repairs covered by this warranty 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.

The Toro Company is not liable for indirect, incidental or consequential damages in connection with the use of the Toro Products covered by this warranty, including any cost or expense of providing substitute equipment or service during reasonable periods of malfunction or non-use pending completion of repairs under this warranty. Some states do not allow exclusions of incidental or consequential damages, so the above exclusion 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.

- * Normal residential purposes means removing snow on the same lot as your home. Use at more than one location is considered commercial use and the commercial use warranty would apply.

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 The Toro Company.