

CCR™ Quick Clear™ Snowthrower

Model No. 38563—Serial No. 405012000 and Up Model No. 38568—Serial No. 405012000 and Up

Operator's Manual

Introduction

This machine is intended to be used by residential homeowners. It is designed primarily for removing snow from paved surfaces, such as driveways and sidewalks, and other surfaces for traffic on residential or commercial properties. It is not designed for removing materials other than snow, nor is it designed for clearing gravel surfaces. Using this product for purposes other than its intended use could prove dangerous to you and bystanders.

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

Visit www.Toro.com for product safety and operation training materials, accessory information, help finding a dealer, or to register your product.

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

Important: With your mobile device, you can scan the QR code on the serial number decal (if equipped) to register your product and to access warranty, parts, and other product information.

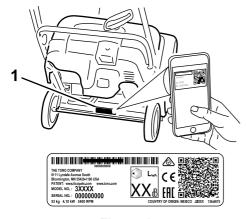
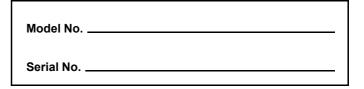


Figure 1

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
Safety-alert symbol

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

This product complies with all relevant European directives; for details, please see the separate product specific Declaration of Conformity (DOC) sheet.

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



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

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

decal127-9363

127-9363

Figure 3

Contents

Introduction	1
Safety	
General Safety	3
Safety and Instructional Decals	4
Setup	5
. 1 Unfolding the Handle	5
2 Installing the Discharge Chute	5
3 Adding Oil to the Engine	
4 Adjusting the Control Cable	6
Product Overview	
Specifications	
Attachments/Accessories	7
Operation	
Before Operation	
Before Operation Safety	
Filling the Fuel Tank	8
Checking the Engine-Oil Level	
During Operation	. 9
During Operation Safety	. 9
Starting the Engine	
Engaging the Rotor Blades	10
Disengaging the Rotor Blades	10
Shutting Off the Engine	.11
Adjusting the Discharge Chute and Chute	
Deflector	.11
Clearing a Clogged Discharge Chute	.11
Operating Tips	12
After Operation	12
After Operation Safety	
Preventing Freeze-up after Use	
Maintenance	
Recommended Maintenance Schedule(s)	13
Maintenance Safety	13
Checking and Adjusting the Control	
Cable	13
Inspecting the Rotor Blades	14
Changing the Engine Oil	15
Servicing the Spark Plug	16
Replacing the Drive Belt	17
Adjusting the Quick Shoot Control	18
Storage	20
Storage Safety	
Storing the Machine	20

Safety

This machine has been designed in accordance with EN ISO 8437 specifications.

General Safety

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

- Read and understand the contents of this Operator's Manual before you start the engine. Ensure that everyone using this product knows how to use it, knows how to shut off the engine quickly, and understands the warnings.
- Shut off the engine whenever you leave the operating position for any reason.
- Do not put your hands or feet near moving parts on the machine.
- Do not operate the machine without all guards and other safety protective devices in place and working.
- Keep clear of any discharge opening. Keep bystanders, especially small children, out of the operating area.
- Never allow children to operate the machine.

Safety and Instructional Decals



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

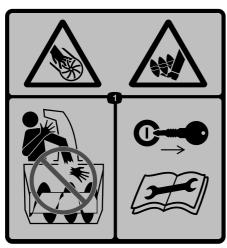


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- To engage the rotor blades, hold the control bar against the handle.
- 2. To disengage the rotor blades, release the control bar.

Order Part No. 117-9121



115-5698

decal115-5698

 Cutting/dismemberment hazard, impeller and auger—do not place your hand in the chute; remove the key and read the Operator's Manual before performing maintenance. Model 38563 only; order Part No. 117-6036



decal117-9102

117-9102

- Warning—read the Operator's Manual.
- Cutting/dismemberment hazard, impeller—shut off the engine and wait for the auger to stop before leaving the machine.
- Thrown object hazard—keep bystanders away.
- 4. Explosion hazard—do not tip the machine.
- 5. Engine switch—on

- 6. Engine switch—off
- 7. Primer
- Push the primer 3 times to prime the engine.
- 9. Read the *Operator's Manual* before checking the engine-oil level.

Model 38568 only; order Part No. 117-6046



decal117-9103

117-9103

- . Warning—read the Operator's Manual.
- Cutting/dismemberment hazard, impeller—shut off the engine and wait for the auger to stop before leaving the machine.
- Thrown object hazard—keep bystanders away.
- 4. Explosion hazard—do not tip the machine.
- 5. Engine switch—on

- 6. Engine switch—off
- 7. Primer
- 8. Push the primer 3 times to prime the engine.
- Read the Operator's Manual before checking the engine-oil level.
- Plug the machine in to power the electric starter.

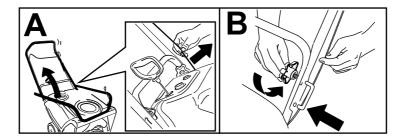
Setup



Unfolding the Handle

No Parts Required

Procedure



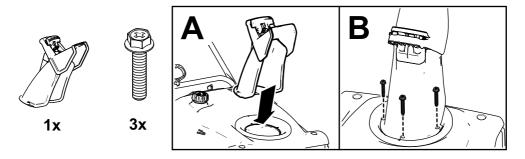
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2

Installing the Discharge Chute

No Parts Required

Procedure

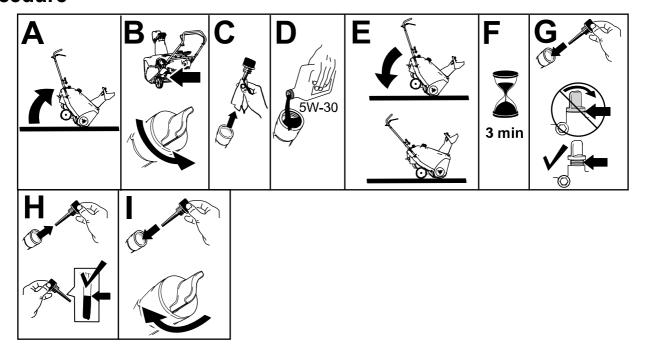




Adding Oil to the Engine

No Parts Required

Procedure



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Adjusting the Control Cable

No Parts Required

Procedure

Refer to Checking and Adjusting the Control Cable (page 13).

Product Overview

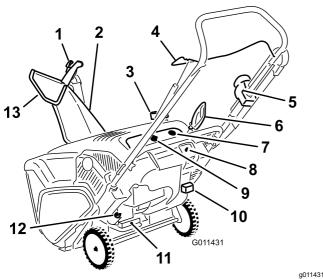


Figure 7

Chute-deflector trigger

- 8. Electric-start button (Electric-start models
- 2. Discharge chute
- Fuel-tank cap
- Control bar
- Quick Shoot™ control
- Recoil-start handle 6.

- 9. Key
- Choke lever
- Oil-drain plug
- Oil fill/dipstick
- Chute deflector

Primer

Specifications

Model	Weight	Length	Width	Height
38563	37 kg			
	(82 lb)	122 cm	54 cm	107 cm
38568	39 kg	. (48	(21	. (42
	(87 lb)	inches)	inches)	inches)

Attachments/Accessories

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

To ensure optimum performance and continued safety certification of the machine, use only genuine Toro replacement parts and accessories. Replacement parts and accessories made by other manufacturers could be dangerous, and such use could void the product warranty.

Operation

Before Operation

Before Operation Safety

General Safety

- For electric-start models only: Use extension cords and receptacles as specified in the manual. Inspect the electrical cord before plugging it into a power source. If the cord is damaged, replace it. Unplug the power cord whenever you are not starting the machine.
- Wear appropriate clothing, including eye protection; long pants; substantial, slip-resistant footwear; and hearing protection. Tie back long hair, secure loose clothing, and do not wear loose jewelry.
- Thoroughly inspect the area where you will use the machine, and remove all doormats, sleds, boards, wires, and other foreign objects.
- If a shield, safety device, or decal is damaged, illegible, or missing, repair or replace it before beginning operation. Also, tighten any loose fasteners.

Fuel Safety

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

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

Filling the Fuel Tank

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

Do not fill above the bottom of the fuel tank neck (Figure 8).

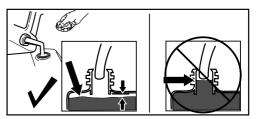


Figure 8

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Important: For best results, purchase only the quantity of fuel that you expect to use in 30 days. Otherwise, you may use fuel stabilizer/conditioner in the machine at all times to keep the fuel fresh longer when used as directed by the fuel-stabilizer manufacturer.

Checking the Engine-Oil Level

Service Interval: Before each use or daily

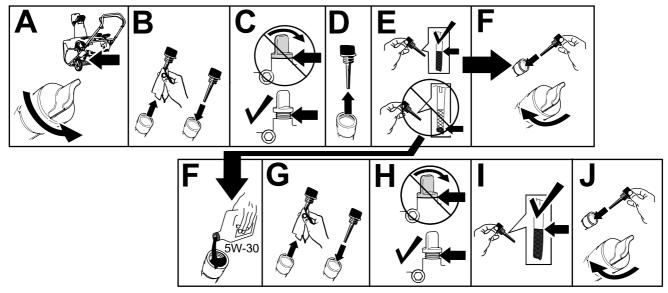


Figure 9

During Operation

During Operation Safety

General Safety

- Shut off the engine before unclogging the machine and always use a stick.
- Stay behind the handles and away from the discharge opening while operating the machine.
 Keep your face, hands, feet, and any other part of your body or clothing away from moving or rotating parts.
- Never direct the discharge toward people or areas where property damage can occur.
- Use your full attention while operating the machine. Do not engage in any activity that causes distractions; otherwise, injury or property damage may occur.
- Exercise caution to avoid slipping or falling, especially when operating the machine in reverse.
- Always be sure of your footing, and keep a firm hold on the handles. Walk; never run.
- Exercise extreme caution when operating the machine on a slope.

- Do not operate the machine without good visibility or light.
- Look behind and use care when backing up the machine.
- When not actively clearing snow, disengage power to the auger.
- Exercise extreme caution when operating the machine on walks or roads. Stay alert for hidden hazards or traffic.
- Never attempt to make any adjustments while the engine is running, except as directed in the instructions.
- After striking a foreign object, shut off the engine, remove the key, and inspect the machine for damage. Repair any damage before starting the machine.
- If the machine starts to vibrate abnormally, shut off the engine and check immediately for the cause.
- Do not run the engine indoors; exhaust fumes are dangerous.
- Do not overload the machine capacity by attempting to clear snow at too fast a rate.
- Shut off the engine whenever you leave the operating position, before clearing or unclogging the collector, rotor, or discharge chute, and when making any repairs, adjustments, or inspections.

Starting the Engine

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 and is hot. Excessive priming may flood the engine and prevent it from starting.

Standard Models

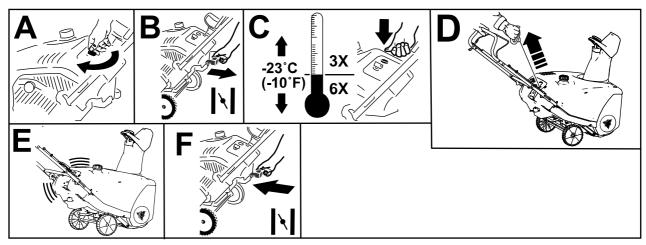


Figure 10

Electric-Start Models

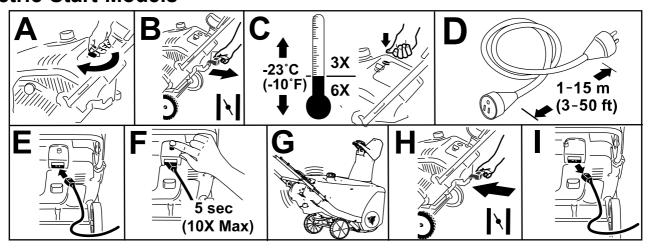


Figure 11

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Note: Use only a UL-listed, 16-gauge extension cord that is recommended for outdoor use and is not longer than 15 m (50 ft).

A WARNING

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

Thoroughly inspect the electrical cord before plugging it into a power source. If the cord is damaged, do not use it to start the machine. Replace or repair the damaged cord immediately. Contact an Authorized Service Dealer for assistance.

A CAUTION

If you leave the machine plugged into a power source, someone can inadvertently start the machine and injure people or damage property (electric-start models only).

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

Engaging the Rotor Blades

To engage the rotor blades, hold the control bar against the handle (Figure 12).

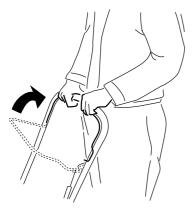


Figure 12

Disengaging the Rotor Blades

To disengage the rotor blades, release the control bar (Figure 13).



Figure 13

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Shutting Off the Engine

To shut off the engine, turn the key counterclockwise to the OFF position (Figure 14).

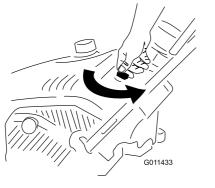


Figure 14

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Adjusting the Discharge Chute and Chute Deflector

To adjust the discharge chute, press the trigger of the Quick Shoot™ control on the right 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 15).

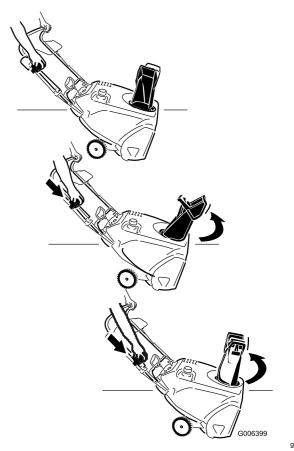


Figure 15

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 16).

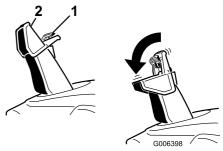


Figure 16

- 1. Chute-deflector trigger
- 2. Chute deflector

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Clearing a Clogged **Discharge Chute**

To clear the chute:

- Shut the engine off!
- Wait 10 seconds to ensure that the rotor blades have stopped rotating.
- Always use a clean-out tool; never use your hands.

11

Operating Tips

A WARNING

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

- Keep the area to be cleared free of all objects that the 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.
- Overlap each swath to ensure complete snow removal.
- Discharge the snow downwind whenever possible.
- If the machine does not propel itself forward on slippery surfaces or in heavy snow, push forward on the handle, but allow the machine to work at its own pace.
- The machine may leave rubber marks on new brushed or light-colored concrete. Test on an inconspicuous location before use. These marks are not permanent.

After Operation

After Operation Safety

General Safety

- Never store the machine with fuel in the fuel tank inside a building where ignition sources are present, such as hot water heaters, space heaters, or clothes dryers. Allow the engine to cool before storing the machine in any enclosure.
- When storing the machine for more than 30 days, refer to Storage (page 20) for important information.
- Run the machine a few minutes after throwing snow to prevent freeze-up of the collector and rotor.

Preventing Freeze-up after Use

 Let the engine run for a few minutes to prevent moving parts from freezing. Shut off the engine,

- wait for all moving parts to stop, and remove ice and snow from the machine.
- 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 key removed, pull the recoil-start handle several times or connect the electrical cord to a power source and the machine and push the electric-start button once to prevent the recoil starter and/or the electric starter from freezing up (electric-start models only).
- 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.

Maintenance

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. 	
After the first 2 hours	Change the engine oil.	
Before each use or daily	Check the engine-oil level and add oil 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. Change the engine oil. 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 machine for storage.	

Maintenance Safety

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

- Shut off the engine, remove the key, and wait for all movement to stop before you leave the operator's position. Allow the machine to cool before adjusting, servicing, cleaning, or storing it.
- Always wear eye protection while performing an adjustment or repair to protect your eyes from foreign objects that the machine may throw.
- Check all fasteners at frequent intervals for proper tightness to ensure that the machine is in safe working condition.
- Do not change the governor settings on the engine.
 Purchase only genuine Toro replacement parts and accessories.

Checking and 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 17).

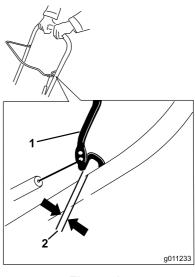


Figure 17

1. Control bar

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

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Note: Ensure that a 2 mm to 3 mm (1/16 inch to 1/8 inch) gap exists between the control bar and the handle (Figure 17).

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 18).

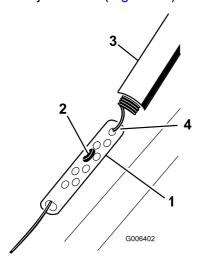


Figure 18

- 1. Adjuster link
- 2. Z-fitting

- 3. Spring cover
- 4. Unhook the spring here.

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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 2 mm to 3 mm (1/16 inch to 1/8 inch) gap between the control bar and the handle (Figure 18).

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 (page 13).

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 19). Then connect the spring to the adjustor link and adjust the control cable.

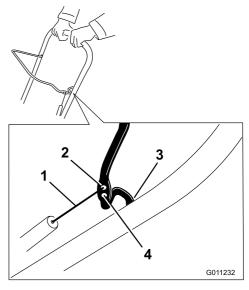


Figure 19

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

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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 20).

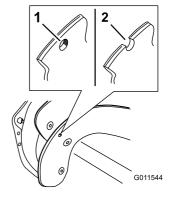


Figure 20

- The wear-indicator hole is intact; you do not need to replace the rotor blades.
- The wear-indicator hole is exposed; replace the rotor blades and scraper.

Changing the Engine Oil

Service Interval: After the first 2 hours

Yearly

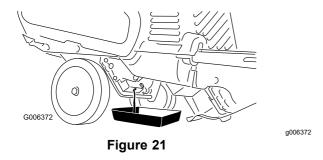
If possible, run the engine for a few minutes before changing the oil to warm it. Warm oil flows better and carries more contaminants.

Engine Oil Specifications

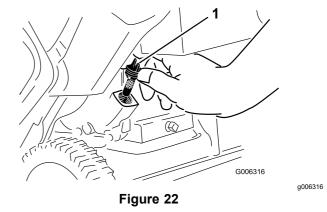
Engine oil capacity	0.60 L (20 fl oz)*
Oil viscosity	Refer to Figure 23.
API service classification	SJ or higher

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

- Siphon the fuel from the fuel tank into an approved fuel container, or run the engine until it shuts off.
- 2. Move the machine to a level surface.
- Place an oil-drain pan under the oil-drain plug, remove the plug, and tip the machine backward and drain the used oil in the pan (Figure 21).



- 4. After draining the used oil, return the machine to the operating position.
- 5. Install the oil-drain plug and tighten it securely.
- Clean around the oil fill/dipstick.
- 7. Unscrew the dipstick and remove it (Figure 22).



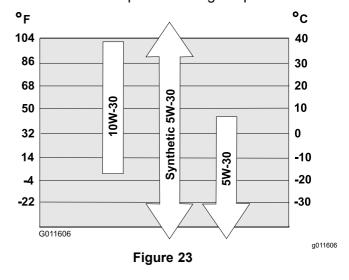
1. Dipstick

8. Carefully pour about 3/4 of the engine capacity of oil into the oil-fill tube.

Note: You may tip the machine forward (handle up) a little to make adding oil easier. Remember to return the machine to the operating position before checking the oil level.

Important: Do not tip the machine all the way forward onto its nose, or fuel may leak out of the machine.

Use Figure 23 to select the best oil viscosity for the outdoor temperature range expected.



- 9. Wait 3 minutes for the oil to settle in the engine.
- 10. Wipe the dipstick clean with a clean cloth.
- 11. With the machine in the operating position, insert the dipstick into the oil-fill tube, **but do not screw it in**, then remove the dipstick.
- 12. Read the oil level on the dipstick.
 - If the oil level on the dipstick is too low, carefully pour a small amount of oil into the oil-fill tube, wait 3 minutes, and repeat

- steps 10 through 12 until the oil level on the dipstick is correct.
- If the oil level on the dipstick is too high, drain the excess oil until the oil level on the dipstick is correct.

Important: If the oil level in the engine is too low or too high and you run the engine, you may damage the engine.

- 13. Install the dipstick into the oil-fill tube securely.
- 14. Wipe up any spilled oil.
- 15. Recycle the used oil properly.

Servicing the Spark Plug

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

Use a **NGK BPR6ES or Champion RN9YC** spark plug or equivalent.

- 1. Shut off 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 1 small screw (Figure 24).

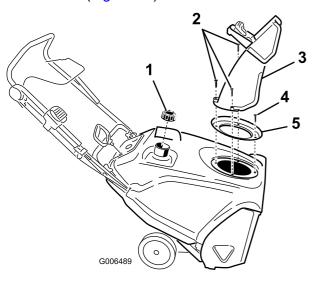


Figure 24

- 1. Fuel-tank cap
- 4. Small screw
- 2. Large screws (3)
- Chute seal
- 3. Discharge chute
- 4. Remove the 4 screws that secure the shroud (Figure 25).

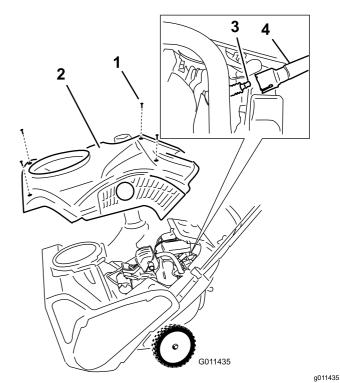


Figure 25

- 1. Screw (4)
- 2. Shroud

- 3. Spark plug
- 4. Spark-plug wire
- 5. Remove the fuel-tank cap.
- 6. Remove the shroud (Figure 25).
- 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 0.76 mm (0.030 inch) as shown in Figure 26.

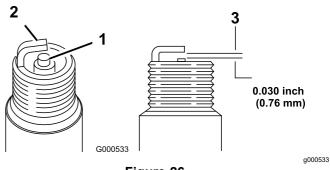
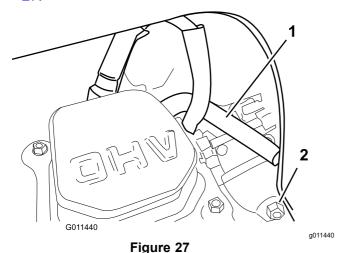


Figure 26

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

- 12. Install the spark plug and torque it to 27 to 30 N·m (20 to 22 ft-lb).
- 13. Connect the wire to the spark plug.

Note: Ensure that the breather tube is routed above the spark-plug wire as shown in Figure 27.



- 1. Breather tube
- 2. Carburetor-drain bolt
- 14. Remove the fuel-tank cap.
- 15. Install the shroud with the screws that you removed in step 4.

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

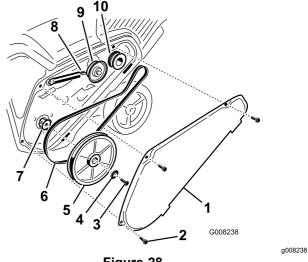
- 16. Install the fuel-tank cap.
- 17. Install the chute seal, discharge chute, and discharge-chute handle onto the machine using the hardware that you removed in step 3.

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

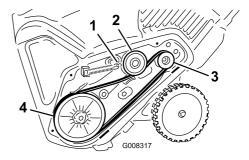
If the drive belt becomes worn, oil-soaked, excessively cracked, frayed, or otherwise damaged, replace the belt.

1. Remove the drive-belt cover by removing the 3 bolts as shown in Figure 28.



- Figure 28
- 1. Drive-belt cover
- 2. Bolt (3)
- 3. Rotor-pulley bolt
- 4. Curved washer
- 5. Rotor pulley

- 6. Drive belt
- 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 28).
- 3. Remove the screw and curved washer that holds the rotor pulley (Figure 28).
- 4. Remove the rotor pulley and the drive belt (Figure 28).
- 5. Install the new drive belt, routing it as shown in Figure 29.



- Figure 29
- Brake spring (install on idler arm here)
- 2. Idler pulley
- 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 28).

- 6. Install the rotor pulley onto the rotor shaft (Figure 28).
- 7. Install the curved washer and the rotor-pulley bolt and tighten them securely (Figure 28).

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 29).
- 9. Install the drive-belt cover with the bolts that you removed in step 1.

Note: Ensure that the drive belt is properly adjusted and operating; refer to Checking the Control Cable (page 13) and Adjusting the Control Cable (page 14).

Adjusting the Quick Shoot Control

If there is more than 13 mm (1/2 inch) of slack in the Quick Shoot cable (Figure 30) or the discharge chute does not rotate left and right in equal angles, adjust the Quick Shoot control cables.

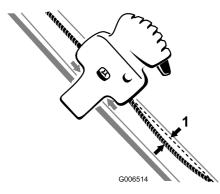
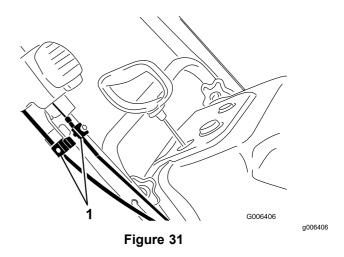
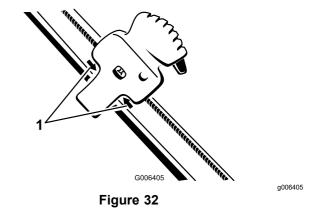


Figure 30

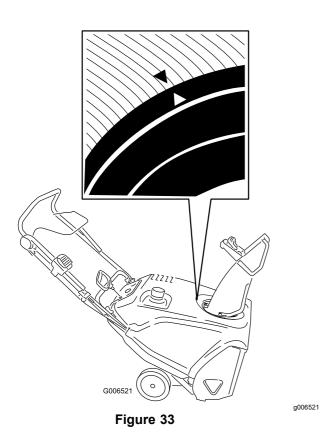
- 1. 13 mm (1/2 inch) maximum slack
- Loosen the 2 Quick Shoot control-cable clamps (Figure 31).



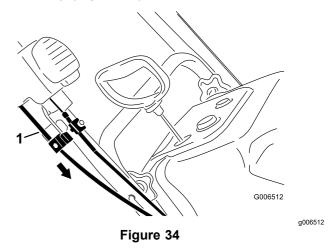
- 1. Cable clamps
- Position the Quick Shoot control between the 2 arrows located on the right side of the upper handle (Figure 32).



- 1. Arrows
- 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 33).

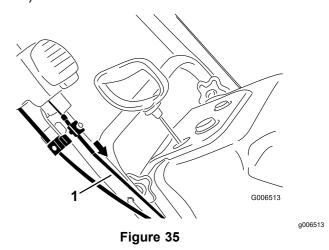


4. Hold the discharge chute in the straight-ahead position, pull the lower cable casing downward until you remove the slack in the cable, and tighten the screw on the lower cable clamp securely (Figure 34).



1. Lower cable casing

5. Pull the upper cable casing forward until you remove the slack in the cable, and tighten the screw on the upper cable clamp securely (Figure 35).



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

Storage Safety

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

Storing the Machine

- On the last refueling of the season, add fuel stabilizer to fresh fuel as directed by the fuel-stabilizer manufacturer.
 - Important: Do not store fuel longer than that suggested by the fuel-stabilizer manufacturer.
- 2. Run the engine for 10 minutes to distribute the conditioned fuel through the fuel system.
- 3. Shut off the engine, allow it to cool, and siphon the fuel tank or run the engine until it shuts off.
- 4. Start the engine and run it until it shuts off.
- 5. Choke or prime the engine, start it a third time, and run the engine until it does not start.
- 6. Drain the fuel in the carburetor through the carburetor-drain bolt into an approved gasoline container.
- Dispose of unused fuel properly. Recycle it according to local codes, or use it in your automobile.
- 8. While the engine is still warm, change the engine oil. Refer to Changing the Engine Oil (page 15).
- 9. Remove the spark plug; refer to Servicing the Spark Plug (page 16).
- 10. Squirt 10 ml (2 tsp) of oil into the spark-plug hole.

- 11. Install the spark plug by hand and then torque it to 27 to 30 N·m (20 to 22 ft-lb).
- 12. With the key removed, pull the recoil-start handle slowly to distribute the oil on the inside of the cylinder.
- 13. Clean the machine.
- 14. 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.
- 15. Tighten any loose fasteners. Repair or replace any damaged parts.
- 16. Cover the machine and store it in a clean, dry place out of the reach of children. Allow the engine to cool before storing the machine in any enclosure.

Notes:

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