



# 726TE Power Max™ Snowthrower

Form No. 3351-165

Model No. 38610—Serial No. 25000001 and Up

## Operator's Manual

# Introduction

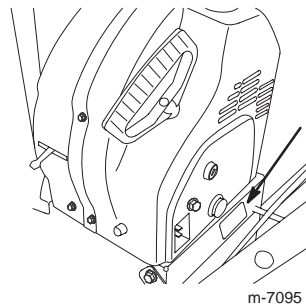
Read this manual carefully to learn how to operate and maintain your product properly and to avoid injury and product damage. You are responsible for operating the product properly and safely.

You may contact Toro directly at [www.Toro.com](http://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. The illustration below identifies the location of the model and serial numbers on the product. Write the numbers in the space provided below:

Model #:

Serial #:



This manual identifies potential hazards and has safety messages identified by the following words:

- **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 2 other 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.**

**Important:** The 2-stroke engine provided on this product meets the EPA Phase I Non-road Emissions regulations for engines under 19 kW. This product does not meet CARB TIER 1 regulations and cannot be sold in California.

This spark ignition system complies with Canadian ICES-002.

# 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 the engine is ever started.**

**⚠ 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 potential, comply with the following safety instructions.**

The following instructions have been adapted from the ANSI/OPEI standard B71.3–1995 and the ISO 8437:1989 standard.

# 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 snowthrower. Never allow adults to operate the snowthrower 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 the snowthrower in reverse.

## Preparation

- Thoroughly inspect the area where you will use the snowthrower. Remove all doormats, sleds, boards, wires, and other foreign objects.
- Before starting the engine, disengage all clutches. Shift the snowthrower into neutral as well, if applicable.
- Do not operate the snowthrower without wearing adequate winter garments. Wear footwear that will improve your 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 the fuel tank outdoors with extreme care. Never fill the fuel tank indoors.
  - Replace the fuel tank cap securely and wipe up any spilled fuel.
- Use only the power cord supplied with the snowthrower and a receptacle appropriate for use with the power cord for electric-start motors.
- Adjust the auger housing height to clear a gravel or crushed-rock surface.
- Never attempt to make any adjustments while the engine is running, except where specifically recommended by Toro.
- Let the engine and the snowthrower adjust to the outdoor temperature before starting to clear snow.
- Operating any powered machine can result in foreign objects being thrown into the eyes. Always wear safety glasses or eye shields while operating, adjusting, or repairing the snowthrower.
- 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 auger/impeller housing or discharge chute, and when making any repairs, adjustments, or inspections.
- When cleaning, repairing, or inspecting, make certain that the auger/impeller and all moving parts have stopped. Remove the ignition key to prevent someone from accidentally starting the engine.
- Do not run the engine indoors, except when starting it and for moving the snowthrower 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 snowthrower without proper guards or other safety devices in place.
- Never operate the snowthrower near glass enclosures, automobiles, window wells, and drop-offs without properly adjusting 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.
- Look behind and use care when backing up with the snowthrower.
- Never direct the discharge at bystanders or allow anyone in front of the unit.
- Disengage the power to the auger/impeller when the snowthrower is being transported or when not in use.
- Use only attachments and accessories approved by Toro, such as wheel weights, counterweights, and cabs. (Contact an Authorized Service Dealer for accessories available for your snowthrower.)
- Never operate the snowthrower without good visibility or light. Always be sure of your footing, and keep a firm hold on the handle. Walk; never run.

## Operation

- Do not put your hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.
- Exercise extreme caution when 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 snowthrower for any damage, and repair the damage before operating the snowthrower.

## Maintenance and Storage

- Check all fasteners at frequent intervals for proper tightness to be sure that 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 and clothes dryers. Allow the engine to cool before storing in any enclosure.

- Always refer to this operator's manual for important details if the snowthrower is to be stored for an extended period.
- Maintain or replace safety and instruction labels when necessary.

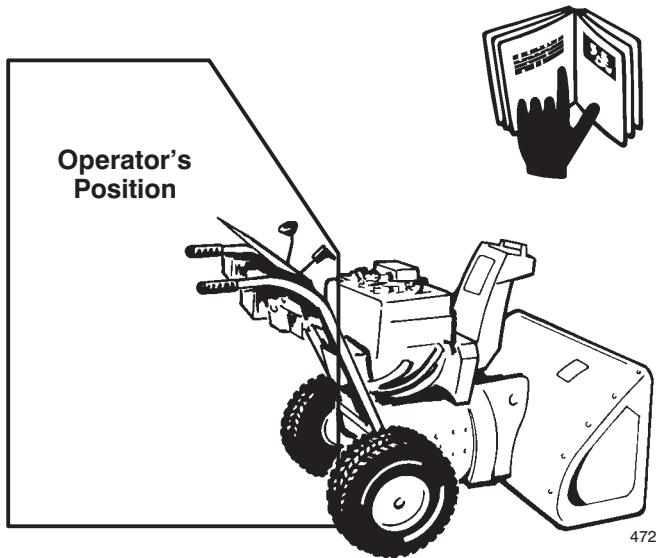
## Toro Snowthrower Safety

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

- **Rotating rotor auger/impeller can cut off or 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, inspecting, troubleshooting, or repairing the snowthrower, **stop the engine, remove the key, and wait for all moving parts to stop.**
- To unclog the discharge chute, stay in the operating position and release the left hand (traction) lever. While running the auger/impeller, push down on the handles to raise the front of the snowthrower a few inches (centimeters) off the pavement. Then lift the handles quickly to bump the front of the snowthrower on the pavement. Repeat if necessary until a stream of snow comes out the discharge chute.
- If you cannot unclog the discharge chute by bumping the front of the snowthrower, **stop the engine, wait for all moving parts to stop, and use a stick; never use your hand.**
- Do not wear loose-fitting clothing that could get caught in moving parts.
- If a shield, safety device, or decal is damaged, illegible, or lost, repair or replace it before beginning operation.
- **Do not** smoke while handling gasoline.
- Do not touch the engine while it is running or soon after it has stopped because the engine may be hot enough to cause a burn.
- 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.

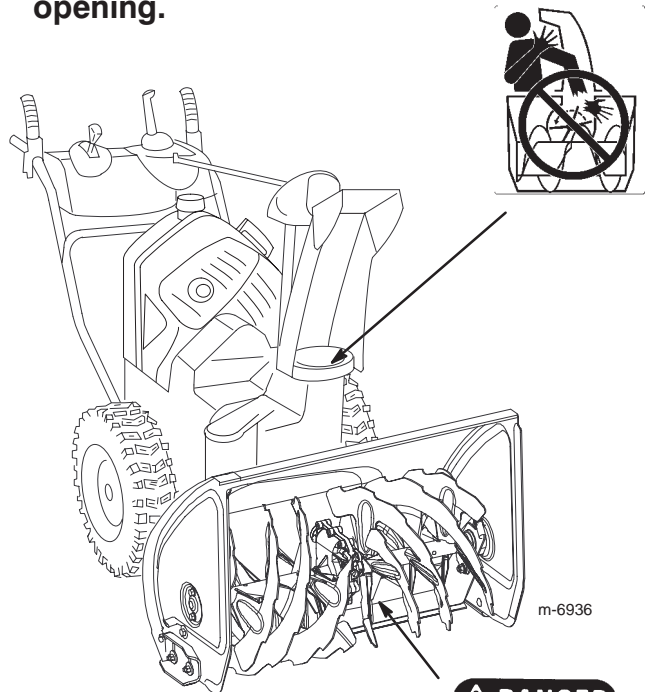
## Before Operating

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



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

**There is a high-speed impeller close to the opening.**



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



## Safety/Instruction Decals

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



53-7670

1. Cutting/dismemberment of foot, auger



93-6659

1. Read the *Operator's Manual*.
2. 50 to 1 gasoline to oil mix required.



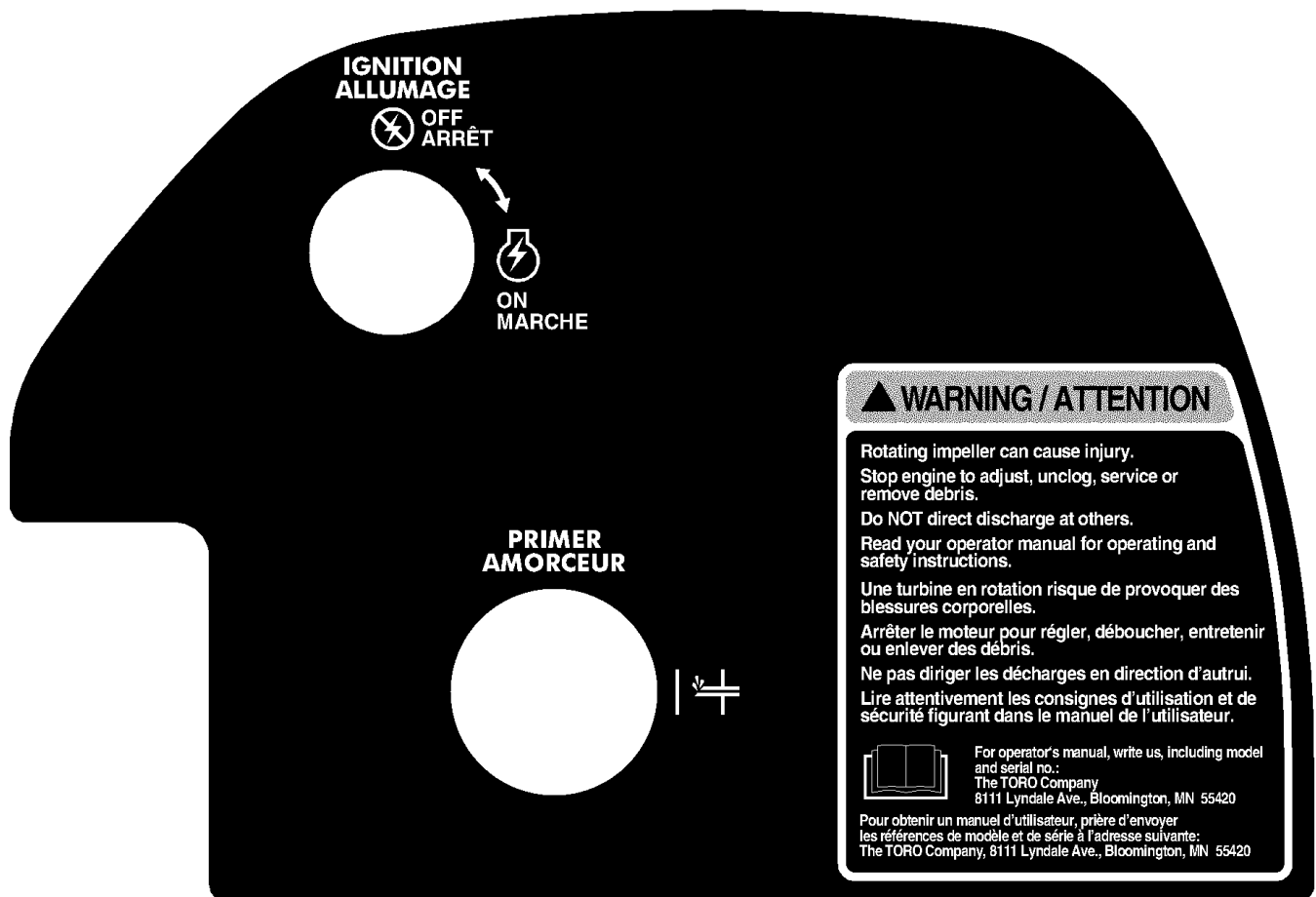
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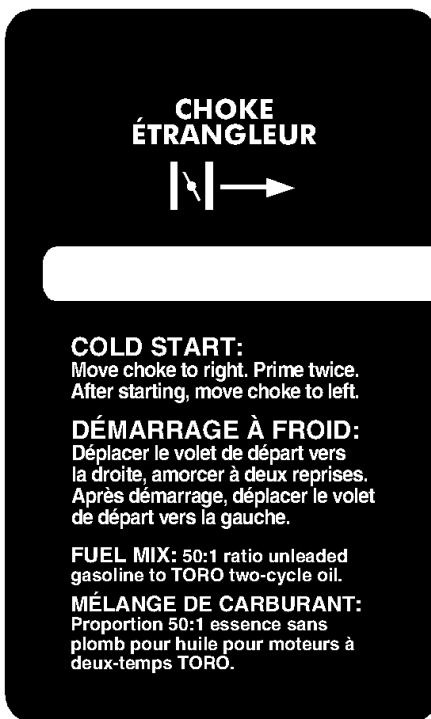
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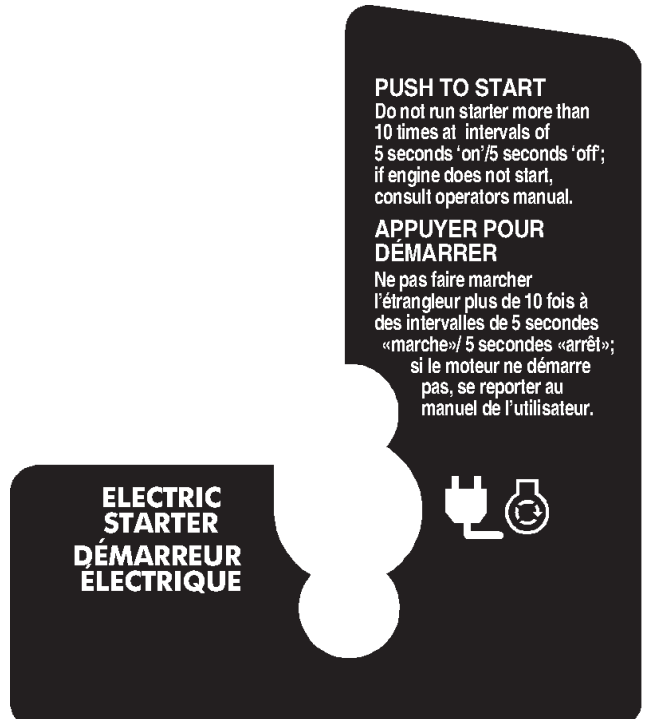
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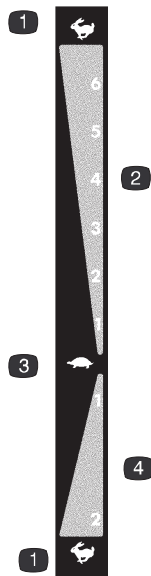
106-9158



106-9159



106-9160



107-3825

- |                   |                   |
|-------------------|-------------------|
| 1. Fast           | 3. Slow           |
| 2. Forward speeds | 4. Reverse speeds |

#### French translation of U.S. EPA decal text:

Ce moteur est conforme à la réglementation antipollution Phase EPA relative aux moteurs ULGE.

Famille : 3L4XS.1415BA

N° de modèle : 106-9133

CYLINDREE (CC) : 141

Pour plus de détails sur la sécurité, l'entretien et les réglages, reportez-vous au manuel de l'utilisateur. N° de téléphone des services de vente et d'après-vente aux Etats-Unis :

The Toro Company  
Bloomington, MN

**THIS ENGINE CONFORMS TO U.S. EPA PH I EMISSIONS REGULATIONS FOR ULGE ENGINES.**

**FAMILY: 3L4XS.1415BA**

**MODEL NO.:**

**106-9133**

**DISP (CC): 141**

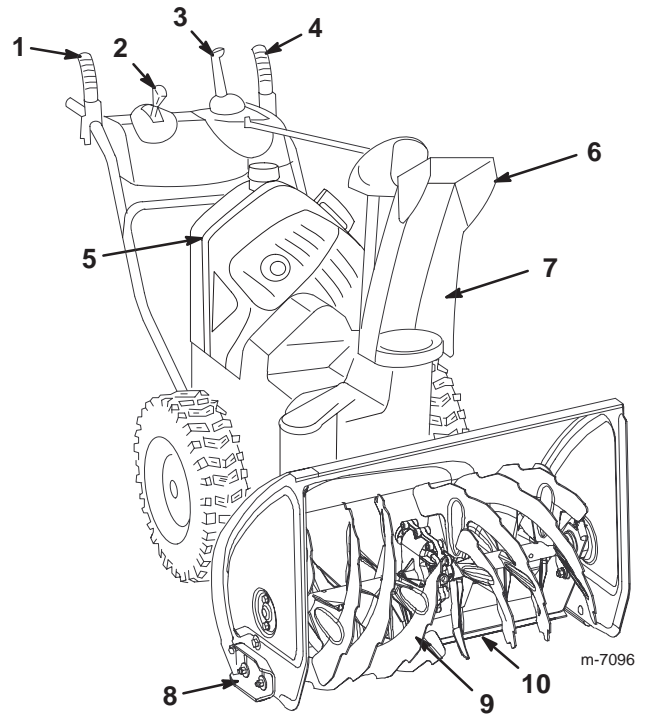
**REFER TO OWNER'S MANUAL FOR SAFETY MAINTENANCE SPECS. AND ADJUSTMENTS. FOR SALES AND SERVICE IN THE U.S. CALL:**

**TORO**

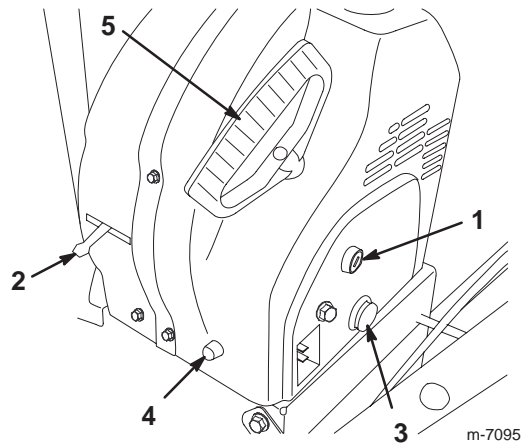
THE TORO COMPANY  
BLOOMINGTON, MN

**IMPORTANT ENGINE INFORMATION** 106-9177

# Product Overview



- |   |                    |
|---|--------------------|
| 1. Auger/impeller lever                 | 6. Chute deflector |
| 2. Speed selector lever                 | 7. Discharge chute |
| 3. Quick Stick™ discharge chute control | 8. Skid (2)        |
| 4. Traction lever                       | 9. Auger           |
| 5. Fuel tank                            | 10. Scraper        |



- |                    |                     |
|--------------------|---------------------|
| 1. Ignition switch | 4. Electric starter |
| 2. Choke           | 5. Recoil starter   |
| 3. Primer          |                     |

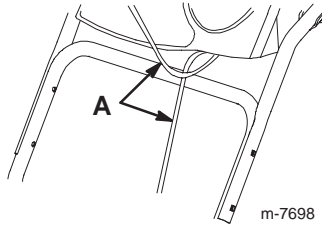
INFORMATION IMPORTANTE CONCERNANT LE MOTEUR

# Setup

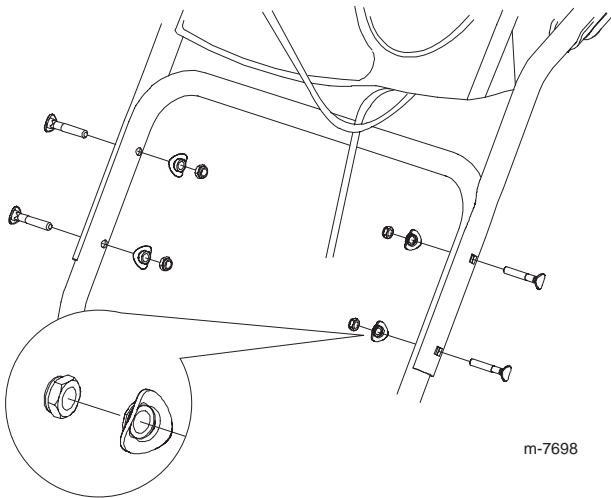
## Installing the Upper Handle Assembly

1. Lift and rotate the upper handle assembly and position it over the lower handle.

**Note:** Ensure that the 2 cables attached to the Quick Stick (A) are routed inside the upper handle legs and that the 2 lever cables and the wire for the headlight are not pinched between the handle sections.

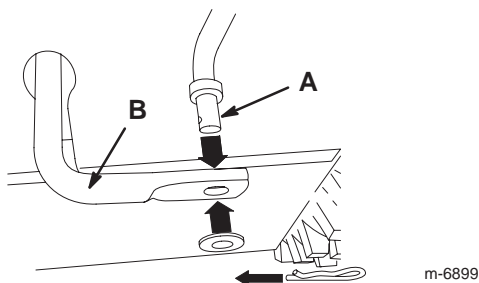


2. Secure the upper handle assembly with 4 handle bolts, 4 curved washers, and 4 locknuts from the loose parts bag.

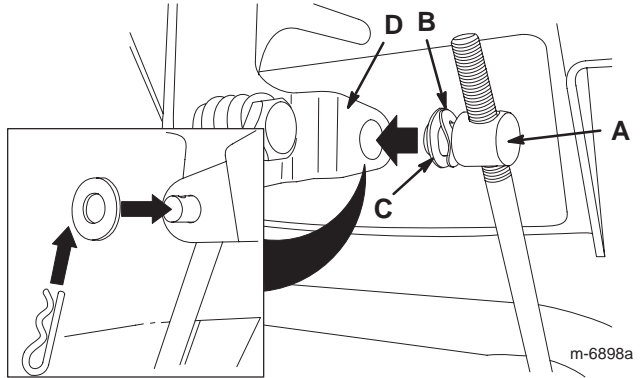


## Installing the Traction Control Linkage

1. Remove the hairpin cotter and washer from the the lower end of the speed control rod (A) and insert the lower end of the rod into the lower link arm (B) so that the bent end of the speed control rod faces rearward.

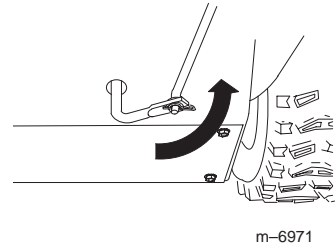


2. Secure the lower end of the speed control rod with the washer and hairpin cotter that you previously removed.
3. Remove the hairpin cotter and the outer washer (of 3 washers) from the trunnion (A) on the upper end of the speed control rod.



**Note:** To make installation easier, leave the wave washer (B) and the flat washer (C) on the trunnion.

4. Shift the speed selector lever into Position R2.
5. Rotate the lower link arm fully upward (counterclockwise).

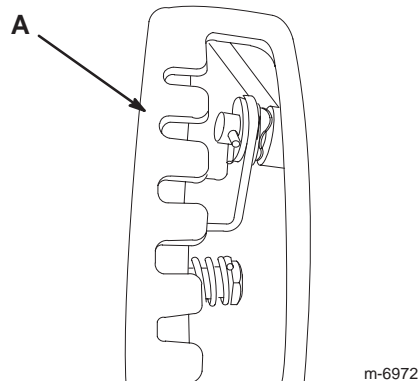


6. Lift up on the speed control rod and insert the trunnion into the hole in the underside of the speed selector lever (D) located under the control panel.

**Note:** If the trunnion does not fit into the hole when you lift up on the speed control rod, rotate the trunnion upward or downward on the speed control rod until it fits into the hole.

7. Secure the trunnion and upper end of the speed control rod with the outer washer and a hairpin cotter you previously removed.

**Note:** To make the installation easier, you can look down through the opening in the speed selector (A).

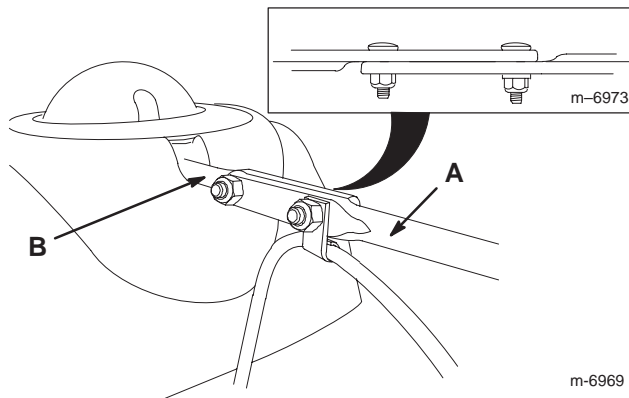


## Installing the Chute Control Rod

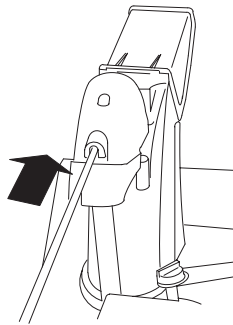
1. Remove the packaging materials from the Quick Stick.
2. From the operating position, rotate the Quick Stick so that it is upright and in the center.
3. Press and hold the blue trigger cap down and pull the lever fully rearward.

**Note:** The discharge chute and deflector should face forward. If they do not, press and hold the blue trigger cap down (but do not move the Quick Stick), and reach forward and rotate the discharge chute until it faces directly forward.

4. Align the flattened back end of the long chute control rod (A) with the flattened front end of the short rod (B) that extends from the front of the control panel so that they nest together.



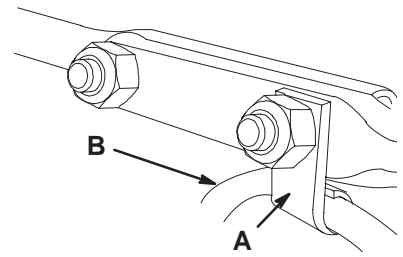
5. Hold the long chute control rod in this orientation (you must move it back to insert it into the gear) and insert the front end of the rod into the opening in the back of the chute gear cover until it slides into the chute gear.



6. Align the holes in the nested ends of the rods and insert 2 carriage bolts through the short rod from the left side of the snowthrower (as viewed from the operating position).

7. The 2 carriage bolts (in the loose parts bag) will go through the holes in the short rod and then through the holes in the long chute control rod.

8. Insert the cable clip (A) that supports the deflector cable (B) onto the forward carriage bolt, and secure the carriage bolts with locknuts from the loose parts bag.



9. Press and hold the blue trigger cap down to unlock the Quick Stick.

10. Rotate the Quick Stick in a circle to ensure that the chute and deflector operate smoothly.

## Checking the Tire Pressure

The tires are overinflated at the factory for shipping. Reduce the pressure equally in both tires to between 17 and 20 psi (116 and 137 kPa).

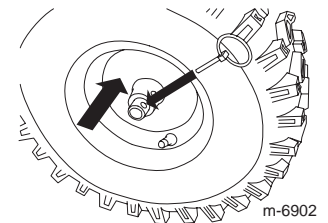
## Checking the Skids and Scraper

Refer to Checking and Adjusting the Skids and Scraper on page 15.

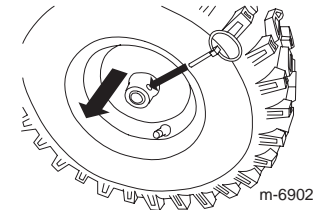
## Before Operating Freewheeling or Using the Self-propel Drive

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

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



To self-propel, slide the wheels outward and insert the axle pins through the holes in the wheel hubs and the inner axle holes.



## Mixing Gasoline and Oil



**Danger**



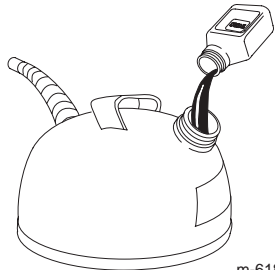
Gasoline is extremely flammable and explosive. A fire or explosion from gasoline can burn you and others.

- To prevent a static charge from igniting the gasoline, place the container and/or 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.

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 TCW3-certified two-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 two-cycle oil to the gasoline according to the chart below:



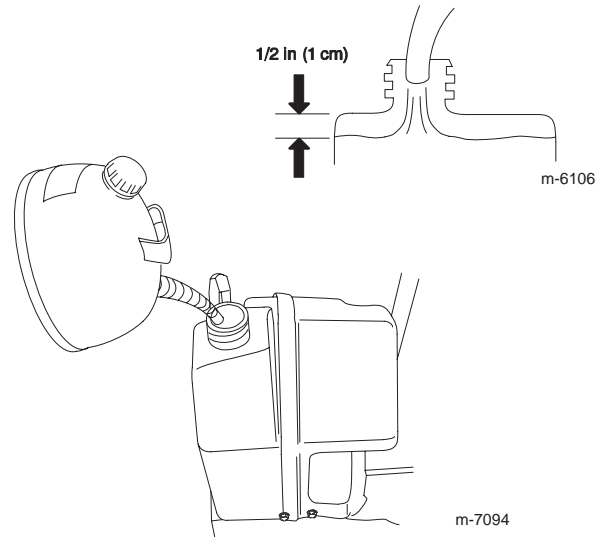
m-6188

50:1 Gasoline-to-Oil Ratio Mixing Chart	
Gasoline	Oil
1 US gallon (3.8 liters)	2.6 ounces (80 ml)
2 US gallons (7.6 liters)	5.2 ounces (160 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



m-6106

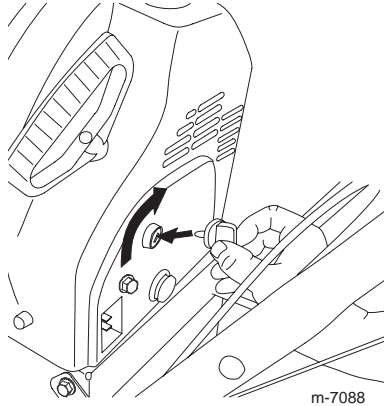
m-7094

# Operation

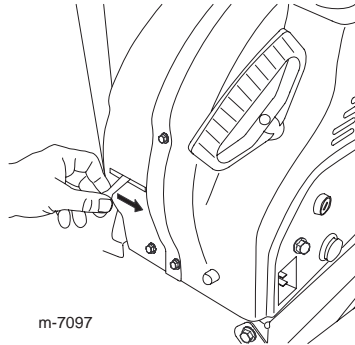
**Note:** Determine the left and right sides of the machine from the normal operating position.

## Starting the Engine

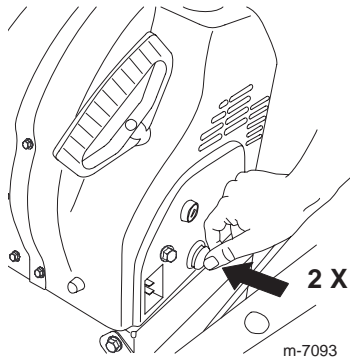
1. Insert and turn the ignition key clockwise to the **On** position.



2. Move the choke lever to right.



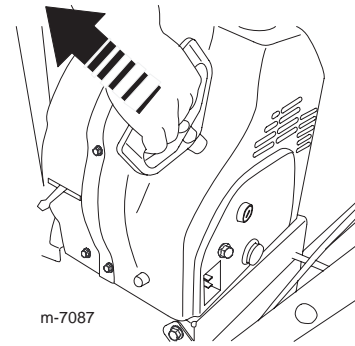
3. Firmly push in the primer 2 times with your thumb, holding the primer in for a second before releasing it each time.



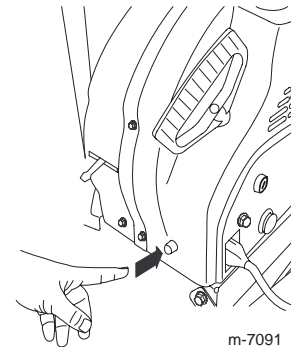
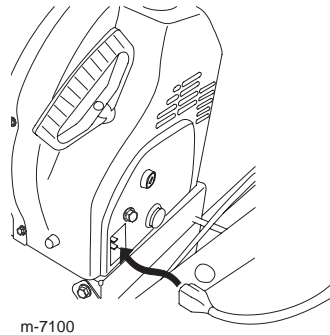
**Note:** Take your glove off when you push in the primer so that air cannot escape from the hole in the primer.

**Note:** Priming excessively may flood the engine and prevent it from starting.

4. Push the electric start button or pull the recoil starter.



or



**Important:** To prevent damaging the electric starter, run it no more than 10 times at intervals of 5 seconds on, then 5 seconds off. If the engine does not start after this series of attempts, allow the starter to cool for at least 40 minutes before trying to start it again. If the engine still does not start, take the snowthrower to an Authorized Service Dealer for service.

5. Disconnect the cord from the electric starter and the outlet (electric-start only).
6. When the engine starts, set the choke to the 3/4 position. As the engine warms up, set the choke to the 1/2 position. When the engine is warm, set the choke to the Off position.

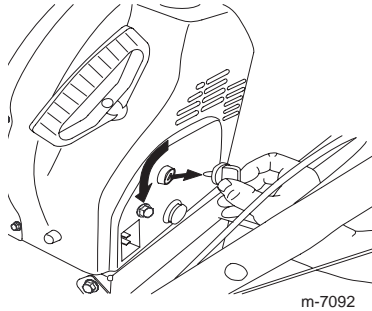


**If you leave the snowthrower plugged into a power outlet, someone can inadvertently start the snowthrower and injure people or damage property.**

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

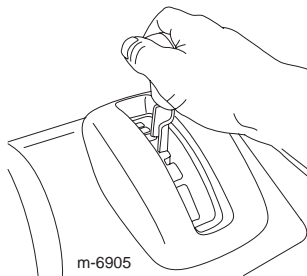
## Stopping the Engine

Turn the ignition key to the **Off** position and wait for all moving parts to stop.



## Operating the Speed Selector

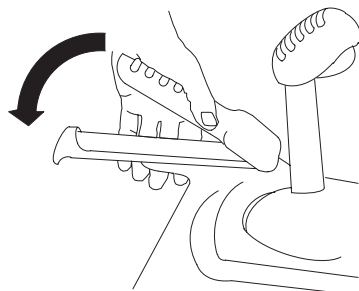
The speed selector has 6 forward and 2 reverse gears. To change speeds, release the traction lever and shift the speed selector lever to the desired position. The lever locks in a notch at each speed selection.



## Operating the Traction Drive

**Important:** To operate the traction drive, you must operate the snowthrower with the self-propel feature engaged. Refer to Freewheeling or Using the Self-propel Drive on page 9.

1. To engage the traction drive, squeeze the left hand (traction) lever to the handgrip.



2. To stop the traction drive, release the traction lever.

3. Check to ensure that the speed selector operates properly:

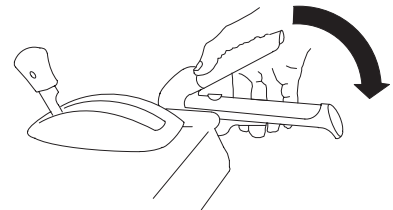
- If the snowthrower does not move or moves forward when it is in Position R1, remove the trunnion from the speed selector lever, turn the trunnion downward (clockwise) on the speed control rod, then install the trunnion.
- If the snowthrower does not move or moves rearward when it is in Position 1 (forward), remove the trunnion from the speed selector lever, turn the trunnion upward (counterclockwise) on the speed control rod, then install the trunnion.

**Note:** Refer to the relevant steps in Installing the Traction Control Linkage on page 8.

**Note:** If the snowthrower moves when the traction lever is in the released position, check the traction cable (refer to Checking and Adjusting the Traction Cable on page 15) or take the snowthrower to an Authorized Service Dealer for service.

## Operating the Auger/Impeller Drive

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



2. To stop the auger and impeller, release the right hand lever.

**Important:** When you engage both the auger/impeller lever and the traction lever, the traction lever locks the auger/impeller lever down, freeing your right hand. To release both levers, simply release the left hand (traction) lever.

3. If the auger and impeller continue to rotate when you release the auger/impeller lever, do not operate the snowthrower. Check the auger/impeller cable (refer to Checking and Adjusting the Auger/Impeller Cable on page 16) and adjust it if necessary. Otherwise, take the snowthrower to an Authorized Dealer for service.



**Warning**



**If the auger and impeller continue to rotate when you release the auger/impeller lever, you could seriously injure yourself or others.**

**Do not operate the snowthrower. Take it to an Authorized Service Dealer for service.**

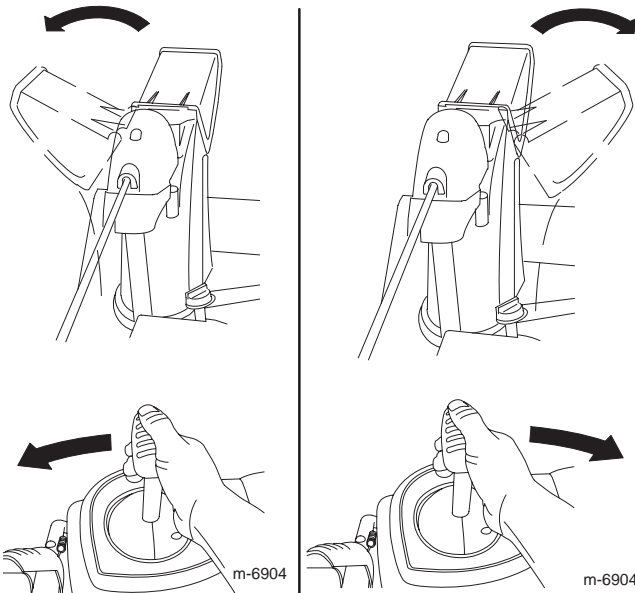
## Operating the Quick Stick™

Push and hold the blue trigger cap down to use the Quick Stick to move the discharge chute and the chute deflector. Release the trigger cap to lock the discharge chute and chute deflector into position.



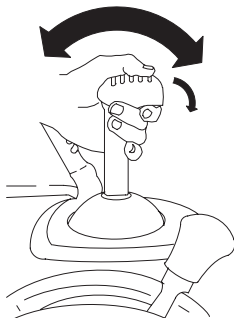
## Moving the Discharge Chute

Push and hold the blue trigger cap down and move the Quick Stick to the left to move the discharge chute to the left; move the Quick Stick to the right to move the discharge chute to the right.



## Moving the Chute Deflector

Push and hold the blue trigger cap down and move the Quick Stick forward to lower the chute deflector; move it rearward to raise the chute deflector.



## Throwing Snow



**Danger**



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

- Before adjusting, cleaning, inspecting, troubleshooting, or repairing the snowthrower, **stop the engine and wait for all moving parts to stop**. Disconnect the wire from the spark plug and keep it away from the plug to prevent someone from accidentally starting the engine.
- Remove an obstruction from the discharge chute; refer to **Unclogging the Discharge Chute** on page 13. If necessary, use a stick, **not your hands**, to remove an obstruction from the discharge chute.
- Stay behind the handles and away from the discharge opening while operating the snowthrower.
- Keep face, hands, feet, and any other part of your body or clothing away from concealed, moving, or rotating parts.



**Warning**



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

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

## Operating Tips

- If the engine slows down under a load or the wheels slip, shift the snowthrower into a lower gear.
- If the front of the snowthrower rides up, shift the snowthrower into a lower gear. If the front continues to ride up, lift up on the handles.

## Unclogging the Discharge Chute

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

- To unclog the discharge chute, stay in the operating position and release the left hand (traction) lever. While running the auger/impeller, push down on the handles to raise the front of the snowthrower a few inches (centimeters) off the pavement. Then lift the handles quickly to bump

the front of the snowthrower on the pavement. Repeat if necessary until a stream of snow comes out the discharge chute.

- If you cannot unclog the discharge chute by bumping the front of the snowthrower, **stop the engine, wait for all moving parts to stop, and use a stick; never use your hand.**

**Important:** Unclogging the discharge chute by bumping the front of the snowthrower on the pavement may cause the skids to move. Adjust the skids and tighten the skid bolts securely.

- After using the snowthrower, let the engine run for a few minutes to prevent moving parts from freezing. Engage the auger/impeller to clear any remaining snow from inside the housing. Rotate the Quick Stick to prevent it from freezing. Stop the engine, wait for all moving parts to stop, and remove all ice and snow from the snowthrower.
- With the engine off, pull the recoil starter handle several times to prevent the recoil starter from freezing up.

## Preventing Freeze-up

- In snowy and cold conditions, some controls and moving parts may freeze. **Do not use excessive force when trying to operate frozen controls.** If you have difficulty operating any part, start the engine and let it run for a few minutes.

# Maintenance

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

## Recommended Maintenance Schedule

Maintenance Service Interval	Maintenance Procedure
After the First 2 Operating Hours	<ul style="list-style-type: none"> <li>• Inspect the traction cable and adjust it if necessary. Refer to Checking and Adjusting the Traction Cable on page 15.</li> <li>• Inspect the auger/impeller cable and adjust it if necessary. Refer to Checking and Adjusting the Auger/Impeller Cable on page 16.</li> </ul>
Annually	<ul style="list-style-type: none"> <li>• Check the skids and the scraper and adjust them if necessary. Refer to Checking and Adjusting the Skids and Scraper on page 15.</li> <li>• Inspect the traction cable and adjust or replace it if necessary. Refer to Checking and Adjusting the Traction Cable on page 15.</li> <li>• Inspect the auger/impeller cable and adjust or replace it if necessary. Refer to Checking and Adjusting the Auger/Impeller Cable on page 16.</li> <li>• Inspect the spark plug. Replace and/or gap it if necessary. Refer to Inspecting and Replacing the Spark Plug on page 18.</li> <li>• Check the auger gearbox oil and add oil if necessary. Refer to Checking the Auger Gearbox Oil Level on page 17.</li> <li>• Check the tire pressure and inflate them to the proper pressure. Refer to Checking the Tire Pressure on page 9.</li> <li>• Lubricate the hex shaft. Refer to Lubricating the Hex Shaft on page 17.</li> <li>• Remove the fuel and run the engine to dry out the fuel tank and the carburetor at the end of the snowthrowing season. Refer to Storage on page 19.</li> <li>• Have an Authorized Service Dealer inspect and replace the traction drive belt and/or the auger/impeller drive belt if necessary.</li> </ul>

**Important:** You can find more information about maintaining and servicing your snowthrower at [www.Toro.com](http://www.Toro.com).

## Preparing for Maintenance

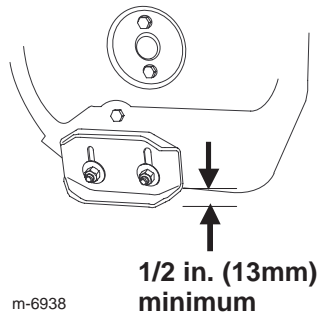
1. Move the snowthrower to a level surface.
2. Stop the engine and wait for all moving parts to stop.
3. Remove the ignition key.
4. After performing the maintenance procedure(s), insert the ignition key.

## Checking and Adjusting the Skids and Scraper

Check the skids and the scraper to ensure that the auger does not contact the paved or gravel surface. Adjust the skids and the scraper as needed to compensate for wear.

1. Check the tire pressure. Refer to Checking the Tire Pressure on page 9.

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



3. Support the side plates so that they are **at least** 1/2 inch (13 mm) above a level surface.
4. Ensure that the scraper is 1/8 inch (3 mm) above and parallel to a level surface.

**Note:** If the pavement is cracked, rough, or uneven, adjust the skids to raise the scraper. For gravel surfaces, raise the scraper to prevent the snowthrower from picking up rocks.

5. Move the skids down until they are even with the ground.
6. Firmly tighten the nuts that secure both skids to the auger sides.

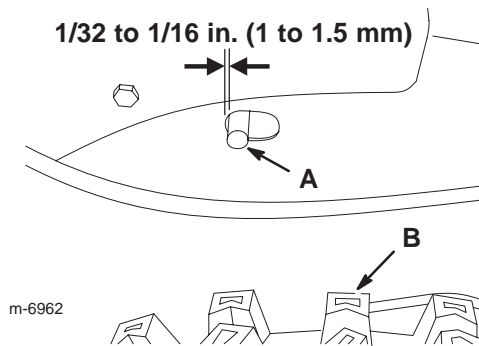
**Note:** To quickly adjust the skids if they loosen, support the scraper 1/8 inch (3 mm) off the pavement, then adjust the skids down to the pavement.

**Note:** If the skids become excessively worn, you can turn them over and set the unused side toward the pavement.

## Checking and Adjusting the Traction Cable

Check and adjust the traction cable after the first 2 operating hours, then annually thereafter. If the snowthrower does not drive in the forward or reverse speeds or it drives when you release the traction lever, adjust the traction cable.

With the traction lever disengaged, check the pin (A) in the elongated slot in the left side of the snowthrower above the tire (B). There should be a gap of 1/32 to 1/16 in. (1 to 1.5 mm) from the front of the slot to the front edge of the pin.

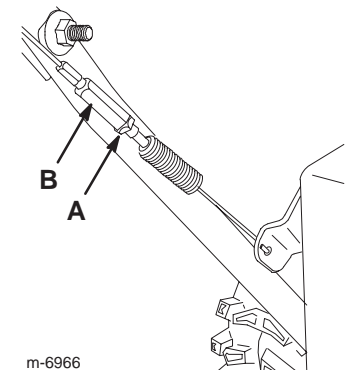


If the left hand (traction) cable is not properly adjusted, do the following steps:

1. Loosen the jam nut (A).
2. Loosen or tighten the turnbuckle (B) to adjust the pin until it is the proper gap from the front edge of the slot.

**Note:** Ensure that the cable does not twist.

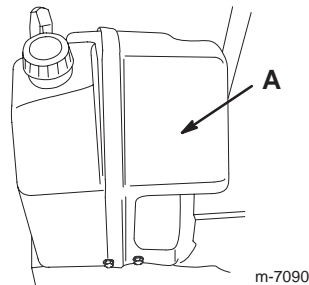
3. Tighten the jam nut.



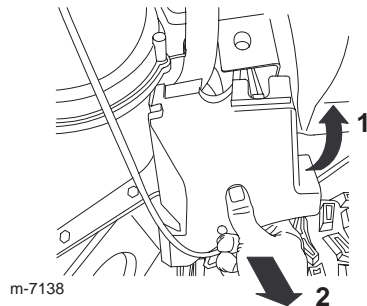
## Checking and Adjusting the Auger/Impeller Cable

Check and adjust the auger/impeller cable after the first 2 operating hours, then annually thereafter.

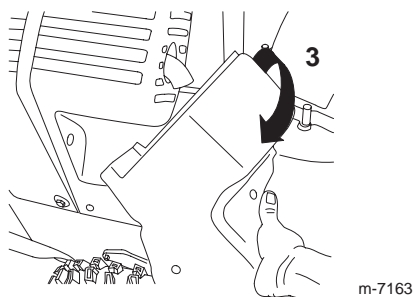
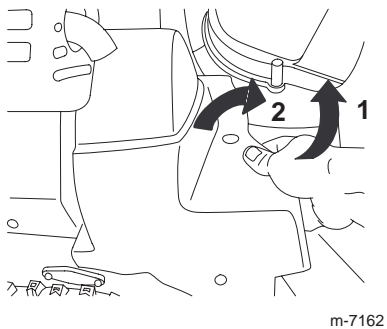
1. Remove the 5 fasteners on the front engine cover (A), but do not remove the cover.



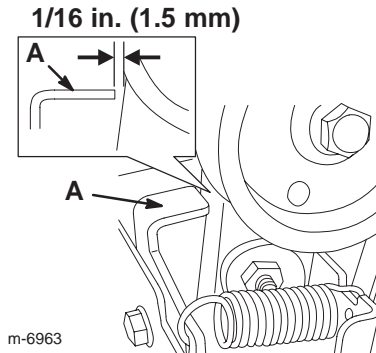
2. Remove the fasteners on the left belt cover, then remove the cover in the sequence shown.



3. Remove the fasteners on the right belt cover, then remove the cover in the sequence shown.



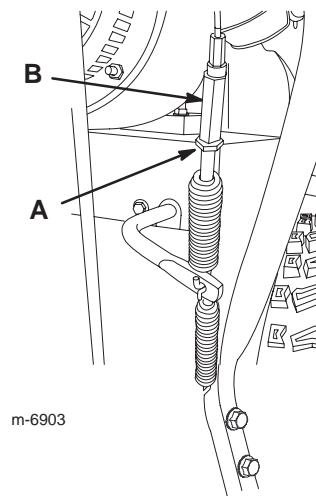
4. With the auger/impeller lever disengaged, ensure that the gap between the auger clutch assembly and the tab (A) is 1/16 inch (1.5 mm).



5. If the auger/impeller cable is not properly adjusted, do the following steps:

6. Loosen the jam nut (A).
7. Loosen or tighten the turnbuckle (B) that adjusts the tension on the cable.

**Note:** Ensure that the cable does not twist.

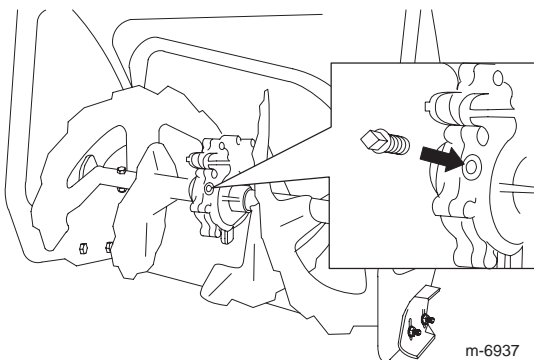


8. Adjust the turnbuckle until you obtain the proper gap.
9. Tighten the jam nut.
10. Insert the left belt cover into place.
11. Insert the right belt cover into place.
12. Secure the front engine cover to the rear engine cover using the fasteners previously removed.
13. Secure the left and right belt covers using the fasteners previously removed.
14. If the auger/impeller cable is properly adjusted but a problem remains, contact an Authorized Service Dealer.

## Checking the Auger Gearbox Oil Level

Check the auger gearbox oil annually, and add oil if necessary.

1. Move the snowthrower to a level surface.
2. Clean the area around the pipe plug.



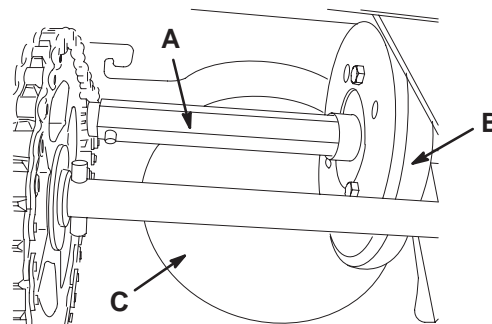
3. Remove the pipe plug from the gearbox.
4. Check the level of oil in the gearbox. The oil should be at the point of overflowing at the filler opening.
5. If the level of oil is low, add GL-5 or GL-6, SAE 85–95 EP transmission oil to the gearbox until the point of overflow.

**Note:** Do not use synthetic oil.

6. Install the pipe plug in the gearbox.

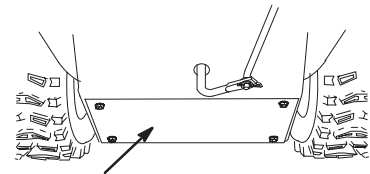
## Lubricating the Hex Shaft

Lightly lubricate the hex shaft (A) annually.



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

1. Remove the fuel from the fuel tank.
2. Tip the snowthrower forward onto its auger housing and block it so that it cannot fall.
3. Remove the back cover.

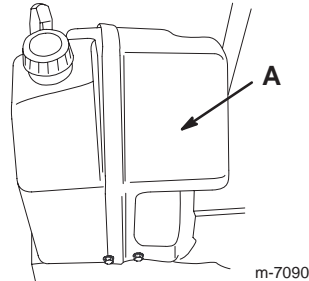


4. Move the speed selector lever to Position R2.
5. Dip your finger in automotive oil and **lightly** lubricate hex shaft (A).
6. Move the speed selector lever to Position 6.
7. Lubricate the other end of the hex shaft.
8. Move the speed selector lever forward and rearward a few times.
9. Install the back cover and return the snowthrower to the operating position.

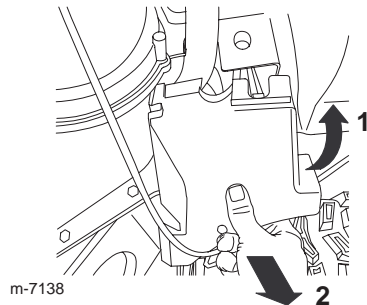
## Inspecting and Replacing the Spark Plug

Use a **NGK BPMR4A** or equivalent spark plug. Check and gap the spark annually, and replace the plug if necessary.

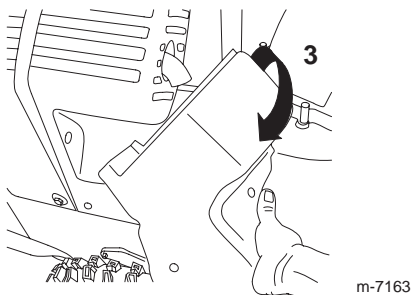
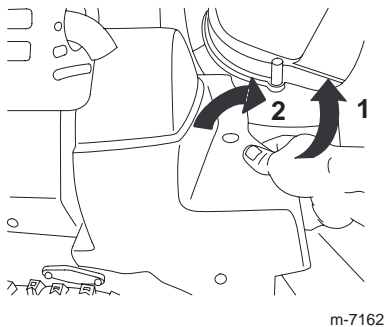
1. Remove the 5 fasteners on the front engine cover (A), but do not remove the cover.



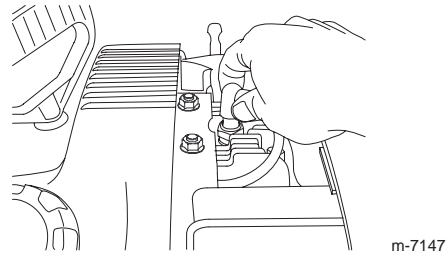
2. Remove the fasteners on the left belt cover, then remove the cover in the sequence shown.



3. Remove the fasteners on the right belt cover, then remove the cover in the sequence shown.



4. Separate the front engine cover from the rear engine cover and disconnect the wire from the spark plug.



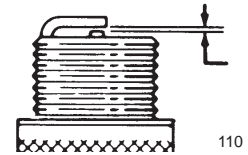
5. Clean around the base of the spark plug.

6. Remove the spark plug.

7. Examine the spark plug and replace it if it is cracked, fouled, dirty, or if the electrodes are worn.

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

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



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

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

10. Insert the left belt cover into place.

11. Insert the right belt cover into place.

12. Secure the front engine cover to the rear engine cover using the fasteners previously removed.

13. Secure the left and right belt covers using the fasteners previously removed.

## Replacing the Drive Belts

If the auger/impeller drive belt or the traction drive belt becomes worn, oil-soaked, or otherwise damaged, go to [www.Toro.com](http://www.Toro.com) for additional service information or have an Authorized Service Dealer replace the belt.

# Storage



## Warning



Gasoline vapors can explode.

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

1. On the last refueling of the year, add fuel stabilizer to fresh fuel as directed by the engine manufacturer.

**Note:** If you use **Toro 50:1 2-Cycle Oil (Fuel Stabilizer Added)**, you do not need to add a fuel stabilizer/conditioner.

2. Run the engine for 5 minutes to distribute the conditioned fuel through the fuel system.

3. Run the snowthrower until the engine stops from running out of fuel.
4. Prime the engine and start it again.
5. Allow the engine to run until it stops. When you can no longer start the engine, it is sufficiently dry.
6. Stop the engine and allow it to cool.
7. Remove the ignition key.
8. Disconnect the spark plug wire.
9. Dispose of any unused fuel properly. Recycle it according to local codes, or use it in your automobile.

**Note:** Do not store stabilized fuel for more than 90 days.

10. Tighten all loose screws, bolts, and locknuts. Repair or replace any damaged parts.
11. Clean the snowthrower thoroughly.

# Troubleshooting

Toro designed and built your snowthrower for trouble-free operation. Check the following components and items carefully, and refer to Maintenance on page 14 for more information. If a problem continues, see an Authorized Service Dealer.

Problem	Possible Causes	Corrective Action
Electric starter does not turn (electric-start models only)	<ol style="list-style-type: none"> <li>1. The power cord is disconnected at the outlet or the snowthrower.</li> <li>2. The power cord is worn, corroded, or damaged.</li> <li>3. The power outlet is not energized.</li> </ol>	<ol style="list-style-type: none"> <li>1. Connect the power cord to the outlet and/or the snowthrower.</li> <li>2. Replace the power cord.</li> <li>3. Have a qualified electrician energize the power outlet.</li> </ol>
Engine does not start or starts hard	<ol style="list-style-type: none"> <li>1. The key is not in the ignition or is in the Stop position.</li> <li>2. The choke is in the Off position and the primer has not been pressed.</li> <li>3. The fuel tank is empty or the fuel system contains stale fuel.</li> <li>4. The spark plug wire is loose or disconnected.</li> <li>5. The spark plug is pitted, fouled, or the gap is incorrect.</li> </ol>	<ol style="list-style-type: none"> <li>1. Insert the key into the ignition and turn it to the On position.</li> <li>2. Move the choke to the On position and press the primer 3 times.</li> <li>3. Drain and/or fill the fuel tank with fresh gasoline (not more than 30 days old). If the problem persists, contact your Authorized Service Dealer.</li> <li>4. Connect the wire to the spark plug.</li> <li>5. Check the spark plug and adjust the gap if necessary. Replace the spark plug if it is pitted, fouled, or cracked.</li> </ol>

Problem	Possible Causes	Corrective Action
	6. The fuel cap vent is restricted.	6. Remove the vent restriction or replace the fuel cap.
Engine runs rough	<ol style="list-style-type: none"> <li>1. The choke is in the On position.</li> <li>2. The fuel tank is nearly empty or contains stale fuel.</li> <li>3. The spark plug wire is loose.</li> <li>4. The spark plug is pitted, fouled, or the gap is incorrect.</li> </ol>	<ol style="list-style-type: none"> <li>1. Move the choke to the Off position.</li> <li>2. Drain and fill the fuel tank with fresh gasoline (not more than 30 days old). If the problem persists, contact an Authorized Service Dealer.</li> <li>3. Connect the wire to the spark plug.</li> <li>4. Check the spark plug and adjust the gap if necessary. Replace the spark plug if it is pitted, fouled, or cracked.</li> </ol>
Engine runs, but the snowthrower discharges snow poorly or not at all	<ol style="list-style-type: none"> <li>1. The snowthrower is moving too fast to clear the snow.</li> <li>2. You are trying to remove too much snow per swath.</li> <li>3. You are trying to remove extremely heavy or wet snow.</li> <li>4. The discharge chute is plugged.</li> <li>5. The auger/impeller drive belt is loose or is off the pulley.</li> <li>6. The auger/impeller drive belt is worn or broken.</li> </ol>	<ol style="list-style-type: none"> <li>1. Shift the snowthrower into a lower gear.</li> <li>2. Reduce the amount of snow removed for per swath.</li> <li>3. Don't overload the snowthrower with extremely heavy or wet snow.</li> <li>4. Refer to Unclogging the Discharge Chute on page 13.</li> <li>5. Install and/or adjust the auger/impeller drive belt; refer to <a href="http://www.Toro.com">www.Toro.com</a> for servicing information or take the snowthrower to an Authorized Service Dealer.</li> <li>6. Replace the auger/impeller drive belt; refer to <a href="http://www.Toro.com">www.Toro.com</a> for servicing information or take the snowthrower to an Authorized Service Dealer.</li> </ol>
Snowthrower does not properly clear the snow off the surface	<ol style="list-style-type: none"> <li>1. The skids and/or the scraper are not properly adjusted.</li> <li>2. The tire pressure is uneven.</li> </ol>	<ol style="list-style-type: none"> <li>1. Adjust the skids and the scraper.</li> <li>2. Check the pressure in the tires and adjust the pressure if necessary.</li> </ol>





## Federal Emission Control Warranty Statement

### A Two-Year Limited Warranty

#### Your Warranty Rights and Obligations

The U.S. Environmental Protection Agency (EPA), Toro, and Toro Warranty Company are pleased to explain the emission control system warranty on your 1997 and later utility/lawn/garden equipment engine. 1997 and later model year utility/lawn/garden equipment engines must be designed, built and equipped, at the time of sale, to meet the U.S. EPA regulations for small non-road engines. The equipment engine must be free from defects in materials and workmanship, which cause it to fail to conform with U.S. EPA standards, for the first two years of engine use from the date of sale to the ultimate purchaser. Toro and Toro Warranty Company warrant the emission control system on your utility/lawn/garden equipment engine for the period of time listed above, provided there has been no abuse, neglect, or improper maintenance of your utility/lawn/garden equipment engine.

Your emission control system may include parts such as the carburetor or fuel injection system, the ignition system, and catalytic converter. Also included may be hoses, belts, connectors, and other emission related assemblies.

Where a warrantable condition exists, Toro and Toro Warranty Company promise to repair your engine at no cost to you, including diagnosis, parts, and labor.

#### Manufacturer's Warranty Coverage

Toro and its affiliate, Toro Warranty Company, pursuant to an agreement between them, jointly warrant the 1997 and later utility/lawn/garden equipment engines for two years from the date of delivery. If any emission-related part on your engine is defective in materials or workmanship, we will repair or replace the part, free of charge.

#### Owner Responsibilities

As the engine owner, you are responsible for the performance of the required maintenance listed in your operator's manual. We recommend that you retain all receipts covering maintenance on your equipment, but we cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.

Any replacement part or service that is equivalent in performance and durability may be used in non-warranty maintenance or repairs, and shall not reduce our warranty obligation.

As the engine owner, you should be aware that we may deny you warranty coverage if your engine or a part has failed due to abuse, neglect, improper maintenance, or unapproved modifications or parts.

You are responsible for presenting your equipment engine to an Authorized Service Dealer as soon as a problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed thirty (30) days.

If you have any questions regarding your warranty rights and responsibilities, contact us at:

Customer Care Department, Consumer Division  
Toro Warranty Company  
8111 Lyndale Avenue South  
Bloomington, MN 55420-1196  
800-348-2424 (U.S. customers)  
877-484-9255 (Canada customers)

#### Warranted Parts

The warranty period begins on the date the engine or equipment is delivered to a retail purchaser. Toro and Toro Warranty Company jointly warrant to the initial owner and each subsequent purchaser that the engine is free from defects in materials and workmanship,

which cause the engine to fail to conform with applicable regulations, for a period of two years.

Failures caused by abuse, neglect, or improper maintenance are not covered. The use of add-on or modified parts can be grounds for disallowing a warranty claim. We are not liable to cover failures of warranted parts caused by the use of add-on or modified parts. We are liable for damages to other engine components caused by the failure of a warranted part still under warranty. The owner is responsible for the performance of the required maintenance, as defined in the operator's manual.

Any warranted part which is not scheduled for replacement as required maintenance, or which is scheduled only for regular inspection to the effect of "repair or replace as necessary" shall be warranted for the warranty period. Any warranted part which is scheduled for replacement as required maintenance shall be warranted for the period of time up to the first scheduled replacement point for that part. Coverage under this warranty extends only to the parts listed below (the emissions system parts) to the extent that these parts were present on the engine when purchased.

- Fuel Metering System
  - Cold start enrichment system including the choke mechanism or priming system
  - Fuel pump
  - Air fuel ratio feedback system
  - Carburetor and internal parts
  - Fuel injection system
- Air Induction System
  - Air cleaner
  - Reed intake system
  - Intake manifold
  - Controlled hot air intake system
- Ignition System
  - Spark plug(s)
  - Ignition coils and electronics
  - Advance/retard mechanisms
- Catalytic Converter/Thermal Reactor System
  - Catalytic converter
  - Thermal reactor
  - Exhaust manifold
- Air Injection System
  - Air injection system or pulse valve
  - Valves affecting distribution of air
- Exhaust Gas Recirculation (EGR) System
  - EGR valve body and piping system connecting to the intake side of the engine
  - EGR control system
- Particulate Controls
  - Traps, filters, precipitators, and any other device used to capture particulate emissions
- Miscellaneous Items Used in the Above Systems
  - Vacuum, temperature, and time-sensitive valves and switches
  - Electronic controls
  - Hoses, connectors, and assemblies of same

### **Instructions for Obtaining Warranty Service**

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

1. Contact any 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 website at [www.Toro.com](http://www.Toro.com). U.S. Customers may also call 800-421-9684 to use our 24-hour Toro dealer locator system.
2. Bring the product and your proof of purchase (sales receipt) to the Service Dealer.

The owner shall not be charged for diagnostic labor which leads to the determination that a warranted part is defective, if the diagnostic work is performed at a warranty station.

### **General Conditions**

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 this warranty, except for damages to other engine components caused by the failure of a warranted part still under warranty.

All implied warranties of merchantability (that the product is fit for ordinary use) and fitness for use (that the product is fit for a particular purpose) are limited to the duration of the express warranty.

Some states do not allow exclusions of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions 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.



Gas Powered  
Snow Products

## The Toro Total Coverage Guarantee

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

### Conditions and Products Covered

The Toro Company and its affiliate, Toro Warranty Company, pursuant to an agreement between them, jointly promise to repair any Toro Product used for normal residential purposes\* if defective in materials or workmanship.

The following time periods apply from the date of purchase:

<u>Snow Products</u>	<u>Warranty Period</u>
• All Products and Attachments	2 year full warranty
• Power Max™ Snow Products:	
Chute	5 year full warranty
Chute Deflector	5 year full warranty
Impeller Housing Cover	5 year full warranty

This warranty includes the cost of parts and labor, but you must pay transportation costs. Transportation within a fifteen mile radius of the servicing dealer is covered under this warranty for two-stage snowthrowers only.

This warranty applies to all gasoline powered snow products.

\* Normal 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.

### Limited Warranty for Commercial Use

Toro Consumer Products used for commercial, institutional, or rental use are warranted against defects in materials or workmanship for 45 days from the date of purchase.

### Instructions for Obtaining Warranty Service

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

1. Contact any 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 website at [www.Toro.com](http://www.Toro.com). U.S. Customers may also call 800-248-8676 to use our 24-hour Toro dealer locator system.
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 Toll free (U.S. customers)  
866-854-9033 Toll free (Canada customers)

### 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.

### Owner Responsibilities

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

### Items and Conditions Not Covered

There is no other express warranty except for special emission system coverage 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, brake and clutch adjustments
- Any product or part which has been altered, 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

All repairs covered by this warranty must be performed by an Authorized Toro Service Dealer using Toro approved replacement parts.

### General Conditions

Repair by an Authorized Toro Service Dealer is your sole remedy under this warranty.

Neither The Toro Company nor Toro Warranty Company is liable for indirect, incidental or consequential damages in connection with the use of the Toro Products covered by 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, 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.