



1800 Power Curve[®]
Snowthrower

Model No. 38026—24000001 and Up

Operator's Manual



Contents

	Page
Introduction	2
Safety	3
Toro Snowthrower Safety	4
Sound Pressure	4
Sound Power	4
Vibration	4
Safety and Instruction Decals	5
Setup	6
Installing the Upper Handle and Chute Crank ..	6
Installing the Discharge Chute	7
Before Starting	7
Operation	8
Starting and Stopping	8
Operating Tips	8
Maintenance	9
Lubricating the Snowthrower	9
Replacing the Scraper	10
Replacing the Rotor	10
Replacing the Large Belt	11
Replacing the Small Belt	12
Storage	12

Introduction

Read this manual carefully to learn how to operate and maintain your product properly. The information in this manual can help you and others avoid injury and product damage. Although Toro designs and produces safe products, you are responsible for operating the product properly and safely.

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

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

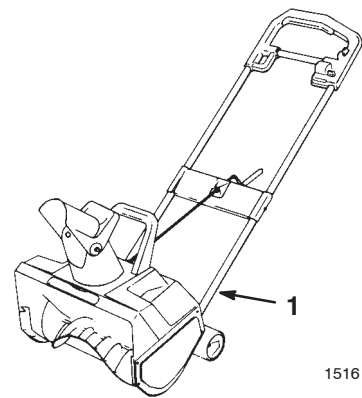


Figure 1

1. Location of the model and serial numbers

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

Model No. _____
Serial No. _____

This manual identifies potential hazards and has special safety messages that help you and others avoid personal injury and even death. **Danger**, **Warning**, and **Caution** are signal words used to identify the level of hazard. However, regardless of the hazard, be extremely careful.

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.

Safety

This snowthrower meets or exceeds the ISO standard 8437 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, the ISO 8437:1989 standard, and European Standard EN 786:1996 and EN 60335-2-91:2002:

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.

Preparation

- Thoroughly inspect the area where you will use the snowthrower. Remove all doormats, sleds, boards, wires, and other foreign objects.
- Release the control bar to disengage the rotor blades before starting the engine.
- Do not operate the snowthrower without wearing adequate winter garments. Wear footwear that will improve your footing on slippery surfaces.
- Never attempt to make any adjustments while the motor is running, except where specifically recommended by Toro.
- Let the motor 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.
- Always ensure that the ventilation openings are kept clear of debris.

- Before use, check the supply and extension cord for signs of damage or aging.

Operation

- Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.
- Disconnect the machine from the power source before checking, cleaning, or working on the machine and when it is not in use.
- If the cord becomes damaged during use, disconnect the cord from the power supply immediately. **Do not touch the cord before disconnecting the power supply.**
- Do not use the machine if the cord is damaged or worn.
- Keep extension cords away from the rotor blades.
- The power supply used with the appliance should be a residential current device (RCD) with a tripping current of not more than 30 mA.
- Exercise extreme caution when crossing gravel drives, walks, or roads. Stay alert for hidden hazards or traffic.
- Do not attempt to clear snow from a crushed-rock or gravel surface. This product is intended for use only on paved surfaces.
- After striking a foreign object, stop the motor, thoroughly inspect the snowthrower for any damage, and repair the damage before operating the snowthrower.
- If the unit should start to vibrate abnormally, stop the motor and check immediately for the cause. Vibration is generally a warning of trouble.
- Stop the motor whenever you leave the operating position, before unclogging the discharge chute, and when making any repairs, adjustments, or inspections.
- When cleaning, repairing, or inspecting, make certain that the rotor blades and all moving parts have stopped.
- 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, plates, or other safety protective 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.
- 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.

Maintenance and Storage

- Check all fasteners at frequent intervals for proper tightness to be sure that the equipment is in safe working condition.
- 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 blades can injure fingers or hands.** Stay behind the handles and away from the discharge opening while operating the snowthrower. **Keep your face, hands, feet, and any other part of your body or clothing away from moving or rotating parts.**
- Before adjusting, cleaning, repairing, and inspecting the snowthrower, and before unclogging the discharge chute, **stop the motor and wait for all moving parts to stop.**
- Use a stick, **not your hands**, to remove obstructions from the discharge chute.
- **Before** leaving the operating position, stop the motor and wait for all moving parts to stop.
- 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. Also, tighten any loose fasteners.
- **Do not** use the snowthrower on a roof.
- Perform only those maintenance instructions described in this manual. Before performing any maintenance, service, or adjustment, stop the motor and disconnect the power cord from the power source. If major repairs are ever needed, contact your Authorized Service Dealer.
- Purchase only genuine Toro replacement parts and accessories.

Sound Pressure

This unit has a maximum sound pressure level at the operator's ear of 89 dBA, based on measurements of identical machines per Directive 98/37/EC.

Sound Power

This unit has a guaranteed sound power level of 104 dBA, based on measurements of identical machines per Directive 2000/14/EC.

Vibration

This unit does not exceed a hand/arm vibration level of 2.26 m/s², based on measurements of identical machines per Directive 98/37/EC.

Safety and Instruction Decals



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



107-3040

1. Cutting dismemberment, impeller and cutting dismemberment, auger hazards—keep bystanders a safe distance from the snowthrower.



107-3324

1. Double insulated
2. Thrown object; cutting dismemberment, impeller; and cutting dismemberment, auger hazards—read the *Operator's Manual* and keep bystanders a safe distance from the snowthrower.
3. Electric shock hazard—do not use a damaged power cord; disconnect the power cord from the power source and read the instructions before servicing or performing maintenance.

Setup

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

Installing the Upper Handle and Chute Crank

1. Stand the snowthrower on its wheels and position the upper handle.
2. Inspect the open internal wiring; if it is damaged, do not assemble. Contact an Authorized Service Dealer.



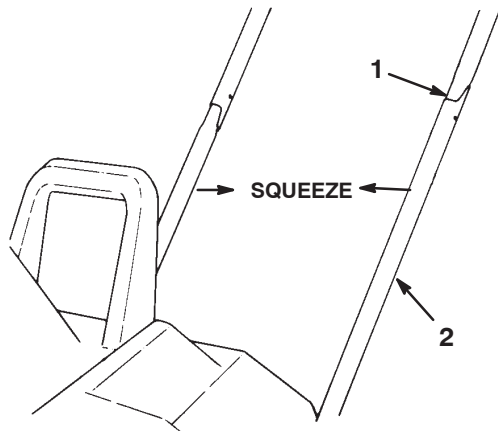
Caution



Internal wiring could be damaged during assembly, causing serious personal injury when operating the snowthrower.

- Carefully assemble the snowthrower so that you will not damage the electrical wiring.
- If wiring is damaged, do not assemble the snowthrower. Contact an Authorized Service Dealer.

3. Carefully insert the right side of the upper tubing **over** the end of the lower right side tubing (Fig. 2).



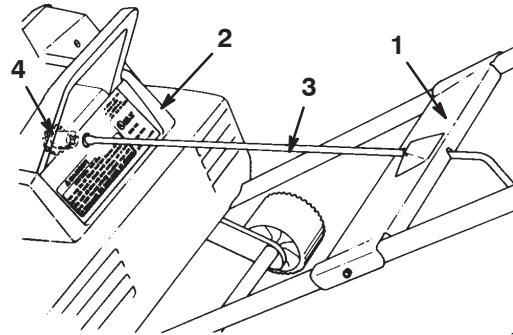
1531

Figure 2

1. Uppertubing
2. Lower tubing

4. Carefully insert the left side of the upper tubing **into** the end of the lower left side tubing (Fig. 2).
5. Squeeze the upper tubes together, and wiggle the upper tubes down until the mounting holes in the upper and lower tubing line up (Fig. 2).

6. Place the mounting plate over the tubes (Fig. 3).

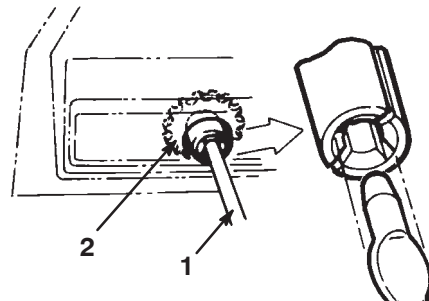


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Figure 3

1. Mounting plate
2. Shroud
3. Chute crank
4. Gear

7. Align the mounting plate holes with the upper and lower tubing holes.
8. Insert the end of the chute crank through the hole in the shroud.
9. Turn the chute crank rod **slowly** until the flattened end drops into the slot in the gear, then firmly push the chute crank into the gear until it snaps into place (Figs. 3 and 4).



1533

Figure 4

1. Chute crank
2. Chute crank gear

10. Secure the upper and lower tubing and the mounting plate together with 2 machine screws and 2 locknuts.

Note: Position the screw heads on the outside of the mounting plate. **Be careful not to damage the internal electrical wiring when you insert the screws.** If the wiring blocks the hole, use a blunt 1/8-in. punch to carefully route the electrical wiring away from the aligned holes.

Installing the Discharge Chute

1. Position the chute deflector onto the discharge chute and align the mounting holes (Fig. 5).

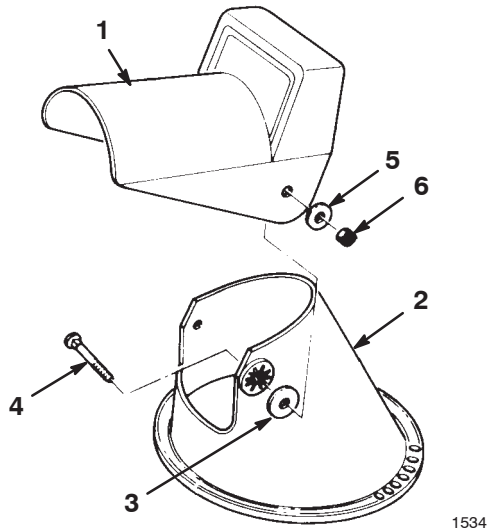


Figure 5

- | | |
|----------------------|----------------------|
| 1. Chute deflector | 4. Carriage bolt (2) |
| 2. Discharge chute | 5. Metal washer (2) |
| 3. Rubber washer (2) | 6. Locknut (2) |

2. Insert a rubber washer between the chute deflector and the discharge chute on each side while maintaining the hole alignment (Fig. 5).
3. Secure the deflector to the discharge chute with 2 carriage bolts, 2 metal washers, and 2 locknuts.

Note: Ensure that the square shoulders on the carriage bolts align with the inside square on the discharge chute. Position the metal washers to the outside of the chute deflector as shown in Figure 5. **Do not overtighten the bolts.**

Before Starting

For safe and efficient use of your appliance, use only an extension cord recommended for outdoor use. Use only a 2.5 mm² extension cord up to 25 m long.



Warning



Contact with water while operating the snowthrower can cause electric shock, resulting in personal injury or death.

Don't handle the plug or the appliance with wet hands or while standing in water.

Note: To prevent the extension cord from disconnecting during operation, tie it to the loop in the upper handle before you connect it to the snowthrower (Fig. 6).

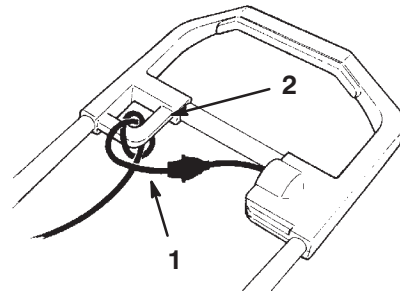


Figure 6

- | | |
|-------------------|---------|
| 1. Extension cord | 2. Loop |
|-------------------|---------|



Warning



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

Thoroughly inspect the electrical cord before using the snowthrower. If the cord is damaged, do not operate the snowthrower. Repair or replace the damaged cord immediately. Contact an Authorized Service Dealer for assistance.

Operation

Check the condition of the snowthrower before operating it to ensure that the rotor turns freely.

Starting and Stopping

1. To start the rotor, squeeze the control bar (Fig. 7).

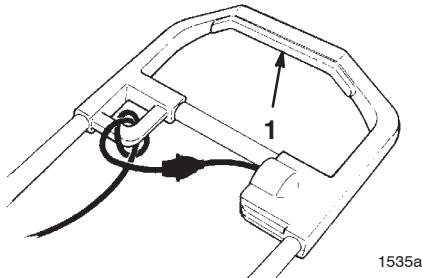


Figure 7

1. Control bar

2. To stop the rotor, release the control bar.

Operating Tips



Warning



If snowthrower hits an object while in operation, the object could be thrown in operator's or bystander's direction. Thrown objects could cause serious personal injury.

Keep the area to be cleared free of all objects which may be picked up and thrown by the rotor blades.

- Always keep children and pets away from the area of operation.
- Keep the area to be cleared free of stones, toys, or other objects which the rotor blades can throw. Such items could be covered by snowfall and go unnoticed. If the snowthrower strikes an object during operation, stop the snowthrower, unplug the extension cord, remove the obstruction, and check the snowthrower for damage.

- To adjust the discharge chute, rotate the chute crank clockwise to move the discharge chute to the left; counterclockwise to move it to the right.

Note: The chute crank makes a noise as you turn the crank. This is normal.

To adjust the height of the snow stream, raise or lower the chute deflector handle (Fig. 8).

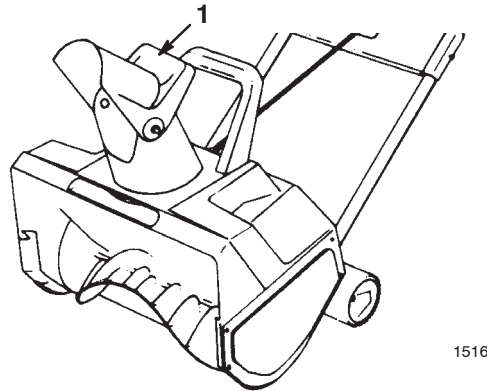


Figure 8

1. Chute deflector handle



Warning

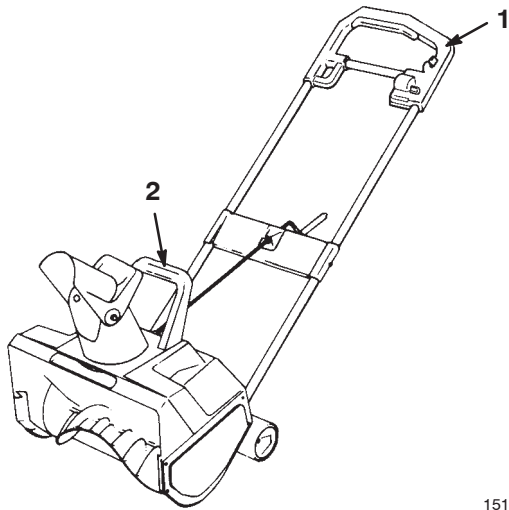


A gap between the discharge chute and the chute deflector may allow the snowthrower to throw snow and objects in the direction of the operator. Thrown objects could cause serious personal injury.

- Do not force the chute deflector too far forward so that a gap appears between the discharge chute and chute deflector.
- Do not overtighten the locknuts that hold the chute deflector in place.

- Begin removing snow near the electrical outlet and work outward. Blow back and forth, not away from and toward the outlet.
- When turning at the end of a swath, step over the cord and turn the snowthrower.
- Always overlap each swath and discharge the snow downwind when possible.

- To shave down large banks of snow, lift the snowthrower by the primary and secondary handles (Fig. 9) and place the snowthrower on the bank. Let the weight of the snowthrower shave down the bank in a back-and-forth motion.



1516

Figure 9

1. Primary handle 2. Secondary handle

- When clearing steps, hold the snowthrower by the primary and secondary handles and use a swinging or sweeping motion.

	Warning	
When using the secondary handle, never direct the snow discharge chute at the operator or bystanders. The snowthrower can throw objects and cause serious personal injury. When using the secondary handle, always turn the discharge chute in the opposite direction from where you or bystanders are standing.		

- Keep the extension cord clear of obstructions, sharp objects, and all moving parts. Do not pull sharply on cord or abuse it in any manner. Frequently inspect the extension cord for damage that may result in an electric shock. If the extension cord becomes damaged, replace it.
- In cold and snowy weather conditions, some controls and moving parts may freeze. Therefore, when any control becomes difficult to operate, stop the motor, disconnect the extension cord, and check for frozen parts. **Do not use excessive force when trying to operate frozen controls.** Free all the controls and moving parts before operating.

- When operating the snowthrower, keep the wheels 1 inch (2.5 cm) off the pavement by tipping the snowthrower forward. This helps prevent the snow from building up on the wheels.
- After clearing the snow, let the motor run for a few minutes so that moving parts don't freeze. Then shut off the motor, wait for all moving parts to stop, and wipe the ice and snow off the snowthrower. Rotate the chute crank several times to remove the snow.

Maintenance

Important All electrical repairs should be performed only by an Authorized Service Dealer.

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

	Warning	
If the extension cord is plugged into the snowthrower, someone could accidentally operate snowthrower while you are performing maintenance on it, causing serious personal injury. Disconnect the extension cord before you perform any maintenance.		

Lubricating the Snowthrower

You do not need to lubricate the snowthrower; all the bearings were lubricated at the factory for the life of the snowthrower.

Replacing the Scraper

The scraper is located at the bottom of the rotor housing as shown in Figure 10.

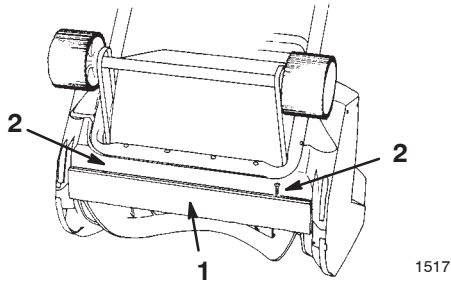


Figure 10

1. Scraper 2. Screw

1. Remove the 2 screws that secure the scraper to the snowthrower (Fig. 10).
2. Install the new scraper and fasten it securely with 2 screws.

Replacing the Rotor

1. Remove the 3 screws that secure the right side cover and the skid to the snowthrower frame (Fig. 11).

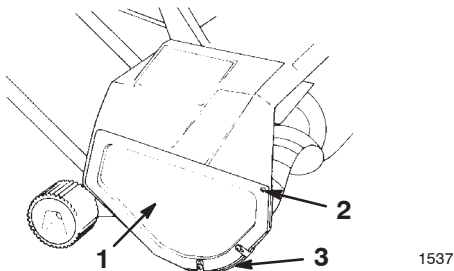


Figure 11

1. Right side cover 3. Skid
2. Screw

2. Use a 5/16-inch Allen wrench to turn the rotor shaft clockwise (left-hand thread) while holding the rotor (Fig. 12).

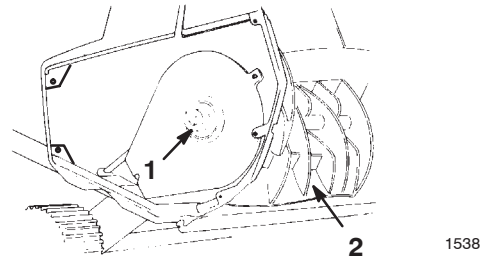


Figure 12

1. Rotor shaft 2. Rotor

Note: You may need to tap the Allen wrench with a hammer to loosen the rotor shaft. Wedge a stick or a hammer handle in the rotor to prevent it from rotating.

Note: If you cannot remove the rotor shaft by holding the rotor, remove the left side cover and the skid (Fig. 13).

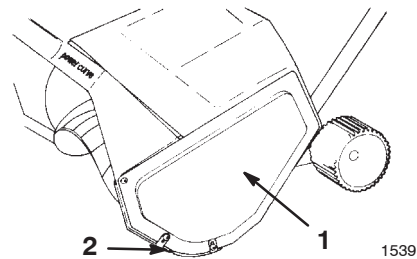


Figure 13

1. Left side cover 2. Skid

3. Hold the hex nut with a 7/8-inch wrench while unscrewing the rotor shaft (Fig. 14).

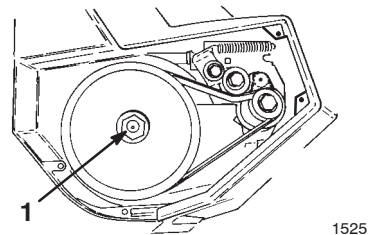


Figure 14

1. Hex nut

4. Hold the rotor and pull out the rotor shaft.
5. Remove the rotor.

- Align the left side of the new rotor with the coupler.

Note: The 3 bosses on the rotor end must align with the slots on the coupler (Fig. 15).

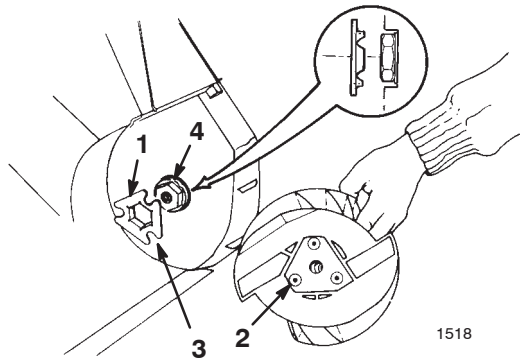


Figure 15

- | | |
|------------|--------------|
| 1. Coupler | 3. Slot |
| 2. Boss | 4. Drive hex |

Note: When mounting the coupler to the drive hex, align the coupler tabs to the **inside**.

- Slide the right side of the rotor into the mounting position.
- Insert the rotor shaft through the rotor and ensure that the shaft fits into the bearing on the right side.
- Torque it to at least 10 ft-lb (14 N·m).
- Install the cover and the skid.

Replacing the Large Belt

- Remove the 3 screws that secure the left side plate to the snowthrower frame (Fig. 13).
- Remove the side plate and the skid.



Caution



The idler spring could fly in your face while you remove it, causing personal injury.

Wear safety goggles when working with the idler spring.

- Remove the idler spring from the idler arm (Fig. 16).

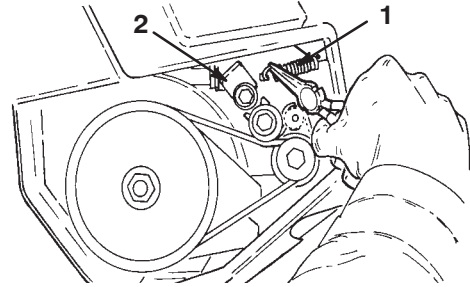


Figure 16

- | | |
|-----------------|--------------|
| 1. Idler spring | 2. Idler arm |
|-----------------|--------------|

- Rotate the rotor with your left hand while sliding the belt off the large pulley with your right hand (Fig. 17).

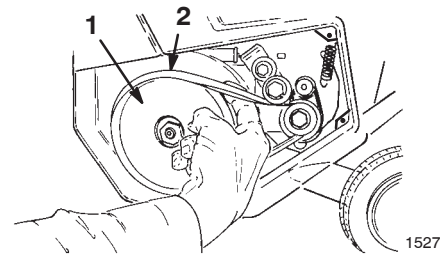


Figure 17

- | | |
|-----------------|---------|
| 1. Large pulley | 2. Belt |
|-----------------|---------|

- Slip the new belt over the small pulley (Fig. 18).

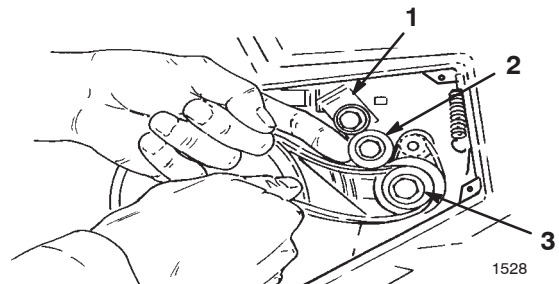
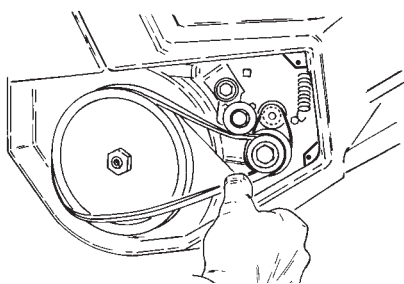


Figure 18

- | | |
|-----------------|-----------------|
| 1. Idler arm | 3. Small pulley |
| 2. Idler pulley | |

- Lift up the idler arm and slip the belt under the idler pulley (Fig. 18).

7. Rotate the rotor with your left hand while sliding the belt onto the large pulley with your right hand (Fig. 19).



1529

Figure 19

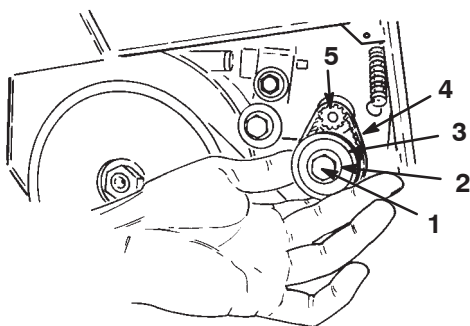
8. Assemble the idler spring (Fig. 16), ensuring that the idler pulley rides on the belt.
9. Install the left side cover and the skid with the 3 screws.

Replacing the Small Belt

1. Remove the screws that secure the left side plate and the skid to the snowthrower frame (Fig. 13).
2. Remove the side plate and the skid.
3. Remove the large belt by slowly sliding it off the small pulley (Fig. 17).

Note: Refer to steps 2 and 3 of Replacing the Large Belt on page 11.

4. Remove the small pulley bolt (left hand thread) by turning the bolt clockwise.
5. Remove the 2 washers and the small pulley (Fig. 20).



1530

Figure 20

- | | |
|----------------------------|-----------------------|
| 1. Bolt (left-hand thread) | 4. Small belt |
| 2. Washers | 5. Motor shaft pulley |
| 3. Small pulley | |

6. Remove and discard the small belt (Fig. 20).

7. Slide 2 washers onto the bolt and insert the bolt through the small pulley.

Note: The bolt must ride on bearings in the small pulley.

8. Place the new belt on the small pulley.
9. Slide the belt over the motor shaft pulley (Fig. 20).
10. Torque the bolt to 25 to 30 in-lb (2.8 to 3.4 N·m). **Do not overtighten the bolt.**

Note: The bolt, the bolt head, and the washers must be flush against the small pulley.

11. Slip the large belt over the small pulley (Fig. 19). Refer to step 5 through 9 of Replacing the Large Belt on page 11.

Storage

1. Run the snowthrower for a few minutes to melt away any snow on the snowthrower.
2. Disconnect the extension cord from the snowthrower.
3. Examine the extension cord thoroughly for signs of wear or damage. Replace it if it is worn or damaged.
4. Examine the snowthrower thoroughly for worn, loose, or damaged parts. For repairing or replacing parts, contact an local Authorized Service Dealer for assistance.
5. Store the extension cord with the snowthrower.
6. Store the snowthrower in a clean, dry place.