Form No. 3447-408 Rev A

8in Pole Saw

Model No. 51454—Serial No. 321000001 and Up

Operator's Manual

For assistance, please see www.Toro.com/support for instructional videos or contact 1-888-384-9939 before returning this product.

This pole saw is designed for trimming small branches and limbs up to 8 inches (20.3 cm) in diameter. It is to be used only by adults. 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 product ready. Figure 1 identifies the location of the model and serial numbers on the product. Write the numbers in the space provided.

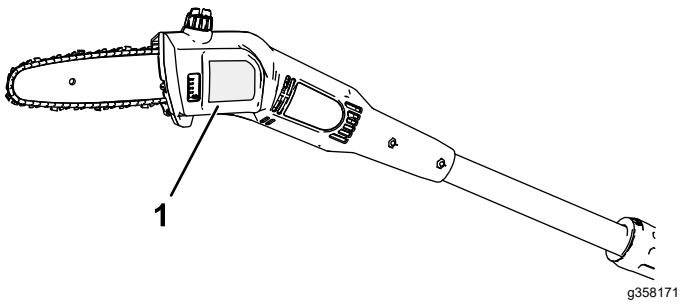

Figure 1

1. Model and serial number location.

Model No. _____

Serial No. _____

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

Figure 2
Safety-alert symbol

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

⚠ WARNING

CALIFORNIA
Proposition 65 Warning

The power cord on this product contains lead, a chemical known to the State of California to cause birth defects or other reproductive harm. Wash hands after handling.

Use of this product may cause exposure to chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

8111 Lyndale Avenue South
Bloomington, MN 55420

Register at www.Toro.com.

Original Instructions (EN)
Printed in China

3447-408

Safety

Read All Instructions

⚠ WARNING

Read all safety warnings designated by the safety-alert symbol and all instructions.

Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

The term "power tool" in all of the warnings refers to your mains-operated (corded) power tool.

1. **Work area safety**
   - A. **Keep the work area clean and well lit.** *Cluttered or dark areas invite accidents.*
   - B. **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gasses, or dust.** *Power tools create sparks, which may ignite the dust or fumes.*
   - C. **Keep children and bystanders away while operating a power tool.** *Distractions can cause you to lose control.*
   - D. **Keep the cable away from the cutting area.** *During operation the cable may be hidden in shrubs and can be accidentally cut by the saw chain.*
2. **Personal safety**
   - A. **Stay alert, watch what you are doing, and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol, or medication.** *A moment of inattention while operating power tools may result in serious personal injury.*
   - B. **Use personal protective equipment. Always wear eye protection.** *Protective equipment such as long pants, dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions reduces personal injuries. Use of rubber gloves is recommended.*
   - C. **Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing, and gloves away from moving parts.** *Loose clothes, jewelry, or long hair can be caught in moving parts. Adequate protective clothing will reduce personal injury by flying debris or accidental contact with the saw chain.*
   - D. **Always use head protection when operating the pole saw overhead.** *Falling debris can result in serious personal injury.*
   - E. **Prevent unintentional starting. Ensure that the switch is in the OFF position before connecting to the power source, or picking up or carrying the power tool.** *Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.*
   - F. **Remove any adjusting key or wrench before turning on the power tool.** *A wrench or a key left attached to a rotating part of the power tool may result in personal injury.*
   - G. **Do not overreach. Keep proper footing and balance at all times.** *This enables better control of the power tool in unexpected situations.*
   - H. **If devices are provided for the connection of dust extraction and collection facilities, ensure that these are connected and properly used.** *Using a dust collector can reduce dust-related hazards.*
   - I. **Keep hands and feet away from the cutting area.**
   - J. **Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.** *A careless action can cause severe injury within a fraction of a second.*
   - K. **Do not allow children or untrained people to operate or service this device. Allow only people who are responsible, trained, familiar with the instructions, and physically capable to operate or service the device.**
3. **Power tool use and care**
   - A. **Do not force the power tool. Use the correct power tool for your application.** *The correct power tool will do the job better and safer at the rate for which it was designed.*
   - B. **Do not use the power tool if the switch does not turn it on and off.** *Any power tool that cannot be controlled with the switch is dangerous and must be repaired.*
   - C. **Disconnect the plug from the power source from the power tool before making any adjustments, changing accessories, or storing power tools.** *Such preventive safety measures reduce the risk of starting the power tool accidentally.*
   - D. **Store idle power tools indoors, out of the reach of children, and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** *Power tools are dangerous in the hands of untrained users.*
   - E. **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the operation of the power tool. If the power tool is damaged, have it repaired before use.** *Many accidents are caused by poorly maintained power tools.*
   - F. **Keep cutting tools sharp and clean.** *Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.*
   - G. **Use the power tool, accessories, and tool bits, etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** *Use of the power tool for operations different from those intended could result in a hazardous situation.*
   - H. **Keep guards in place and in working order.**
   - I. **Keep handles and grasping surfaces dry, clean and free from oil and grease.** *Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.*
4. **Electrical safety**

   Electrical specifications: 120V ~ 60Hz 6.5A
   - A. Ground Fault Circuit Interrupter (GFCI) protection should be provided on the circuit(s) or outlet(s) to be used for the power tool. Receptacles are available having built-in GFCI protection and may be used for this measure of safety.
   - B. To reduce the risk of electric shock, this power tool has a polarized plug (one blade is wider than the other) and will require the use of a polarized extension cord. The power tool plug will fit into a polarized extension cord only one way. If the plug does not fit, obtain a correct polarized extension cord. A polarized extension cord will require the use of a polarized wall outlet. This

plug will fit into the polarized wall outlet only one way. If the plug still does not fit, contact a qualified electrician to install the proper wall outlet. Do not change the equipment plug, extension cord receptacle, or extension cord plug in any way.

C. **Power tool plugs must match the outlet. Never modify the plug in any way**. *Unmodified plugs and matching outlets will reduce the risk of electric shock.*

D. **Avoid body contact with earthed or grounded surfaces.** *There is an increased risk of electric shock if your body is earthed or grounded.*

E. **Do not abuse the cord. Never use the cord for carrying, pulling, or unplugging the power tool. Keep the cord away from heat, oil, sharp edges, or moving parts.** *Damaged or entangled cords increase the risk of electric shock.*

F. **Do not expose power tools to rain or wet conditions.** *Water entering a power tool will increase the risk of electric shock.*

G. **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** *Use of a cord suitable for outdoor use reduces the risk of electric shock.*

H. **Disconnect the plug from the power source when the power tool is not in use.**

I. **In a double-insulated power tool, two systems of insulation are provided instead of grounding. No grounding means is provided on a double-insulated power tool, nor should a means for grounding be added to the power tool. Servicing a double-insulated power tool requires extreme care and knowledge of the system, and should be done only by the qualified service personnel at your Authorized Service Dealer.** *Replacement parts for a double-insulated power tool must be identical to the parts that they replace. A double-insulated power tool is marked with the words "Double Insulation" or "Double Insulated." The symbol (⧈) may also be marked on the power tool.*

J. **Extension Cord**

⚠ WARNING

Using an incorrect extension cord may result in electric shock.

Use only with an extension cord intended for outdoor use, such as an extension cord of cord type SW-A, SOW-A, STW-A, STOW-A, SJW-A, SJOW-A, SJTW-A, or SJTOW-A

Ensure that your extension cord is in good condition. When using an extension cord, use one heavy enough to carry the current your product will draw. *An undersized extension cord will cause a drop in line voltage, resulting in loss of power and overheating.*

The following table lists the correct cord size depending on the length of the cord. *If you are in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.*

Extension Cord Length	Minimum Wire Gauge (A.W.G.)
7.6 m (25 ft)	16
15.0 m (50 ft)	16
30.5 m (100 ft)	14
45.7 m (150 ft)	12

Note: Do not use an extension cord over 45.7 m (150 ft) long.

To reduce the risk of disconnection of the extension cord during use, connect the extension cord to the trimmer as illustrated in Connecting to a Power Source (page 8).

5. **Service**

A. **Have your power tool serviced by a qualified repair person using only identical replacement parts.** *This will ensure that the safety of the power tool is maintained.*

B. **If the cord is damaged, it must be replaced by the manufacturer, its authorized service agent or an authorized service dealer in order to avoid hazard.**

6. **Pole Saw Safety**

A. **Keep all parts of the body away from the saw chain. Do not remove cut material or hold material to be cut when the saw chain is moving. Ensure that the switch is off and the power source is disconnected when clearing jammed material. The saw chain continues to move after the you turn off the switch. Before you start the pole saw, ensure that the saw chain is not contacting anything.** *A moment of inattention while operating pole saws may cause entanglement of your clothing or body with the saw chain.*

B. **Carry the pole saw by the handle with the saw chain stopped. When transporting or storing the pole saw, always fit the saw chain device cover.** *Proper handling of the pole saw will reduce possible personal injury from the saw chain.*

C. **Hold the power tool by insulated gripping surfaces only, because the saw chain may contact hidden wiring.** *Saw chains contacting a "live" wire may make exposed metal parts of the power tool "live" and could give you an electric shock.*

D. **Do not use the pole saw in bad weather conditions, especially when there is a risk of lightning.** *This decreases the risk of being struck by lightning.*

E. **To reduce the risk of electrocution, never use near any electrical power lines.** *Contact with or use near power lines may cause serious injury or electric shock resulting in death.*

F. **Always use two hands when operating the pole saw.** *Hold the pole saw with both hands to avoid loss of control.*

G. **Do not operate a pole saw in a tree.** *Operation of a pole saw while up in a tree may result in personal injury.*

H. **Always keep proper footing and operate the pole saw only when standing on fixed, secure and level surface.***Slippery or unstable surfaces such as ladders may cause a loss of balance or control of the pole saw.*

I. **When cutting a limb that is under tension be alert for spring back.** *When the tension in the wood fibers is released the spring loaded limb may strike you and/or throw the pole saw out of control.*

J. **Use extreme caution when cutting brush and saplings.** *The slender material may catch the saw chain and be whipped toward you or pull you off balance.*

K. **Follow instructions for lubricating, chain tensioning, and changing accessories.** *Improperly tensioned or lubricated chain may either break or increase the chance for kickback.*

L. **Keep handles dry, clean, and free from oil and grease.** *Greasy, oily handles are slippery causing loss of control.*

M. **Cut wood only. Do not use pole saw for purposes not intended. For example: do not use pole saw for cutting plastic, masonry or non-wood building materials.** *Use of the pole saw for operations different than intended could result in a hazardous situation.*

N. **Avoid kickback.** *Kickback may occur when the nose or tip of the guide bar touches an object, or when the wood closes in and pinches the saw chain in the cut.*

Tip contact in some cases may cause a sudden reverse reaction, kicking the guide bar up and back toward you.

Pinching the saw chain along the top of the guide bar may push the guide bar rapidly back toward you.

Either of these reactions may cause you to lose control of the saw, which could result in serious personal injury. Do not rely exclusively upon the safety devices built into your saw. As a pole saw user, you should take several steps to keep your cutting jobs free from accident or injury.

Kickback is the result of tool misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below:

- **Maintain a firm grip, with thumbs and fingers encircling the pole saw handles, with both hands on the handle and position your body and arm to allow you to resist kickback forces.** *Kickback forces can be controlled by the operator, if proper precautions are taken. Do not let go of the pole saw.*
- **Use only replacement bars and chains specified by the manufacturer.** *Incorrect replacement bars and chains may cause chain breakage and/or kickback.*
- **Follow the manufacturer's sharpening and maintenance instructions for the saw chain.** *Decreasing the depth gauge height can lead to increased kickback.*

SAVE THESE INSTRUCTIONS

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.

Symbol	Name	Explanation
AC	Alternating current	Type of current
AMPS or A	Amperes	Current
Hz	Hertz	Frequency (cycles per second)
RPM	Revolutions per minute	Speed of string
VOLTS or V	Volts	Voltage

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145-3115

1. Warning—read the Operator's Manual; wear hearing protection; wear eye protection; wear a hard hat, wear gloves, wear substantial slip-resistant shoes, do not expose to rain; Caution—Cutting/dismemberment hazard of hands; entanglement hazard—stay away from moving parts; keep bystanders away during operation; Electrical shock hazard—keep away from power lines; Do not use a damaged cord.

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145-3111

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Setup

1

Installing the Bar and Chain

No Parts Required

Procedure

⚠ DANGER

Contact with the pole saw teeth can cause serious personal injury.

- **Disconnect the plug from the power source before adjusting or maintaining the pole saw.**
- **Always wear gloves when adjusting or maintaining the pole saw.**

1. Place the pole saw on a flat surface and ensure it is disconnected from the power source.
2. Remove the side cover; turn the bar cover knob counterclockwise until the knob is removed and then remove the side cover (Figure 3).

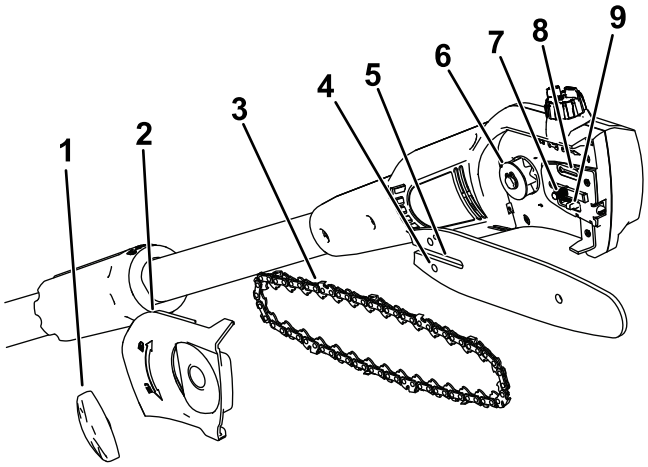

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Figure 3

1. Bar cover knob
2. Side cover
3. Chain
4. Chain adjusting stud slot
5. Guide bar slot
6. Drive sprocket
7. Guide bar stud
8. Oil outlet
9. Chain adjusting stud

3. Place the chain around the sprocket on the front end of the guide bar, with the cutting edge of the chain teeth on the top of the bar facing forward as shown in the diagram beneath the side cover of the pole saw.
4. Continue to feed the chain around the guide bar and align the chain into the groove of the guide bar.
5. Position the open loop of the chain (the side not on the guide bar) around the drive sprocket on the pole saw (Figure 3).

   Important: **Ensure that the chain adjusting stud is inserted into the chain adjusting stud slot on the guide bar (Figure 3).**

   You may need to rotate the chain-tensioning screw to fit the stud into the slot on the guide bar (Figure 16).
6. Install the side cover and bar cover knob and loosely tighten the side cover by turning the knob clockwise.
7. Adjust the chain tension; refer to Adjusting the Chain Tension (page 12).

2

Assembling the Pole Saw

No Parts Required

Procedure

1. Unfold the sections of the handle (Figure 4).

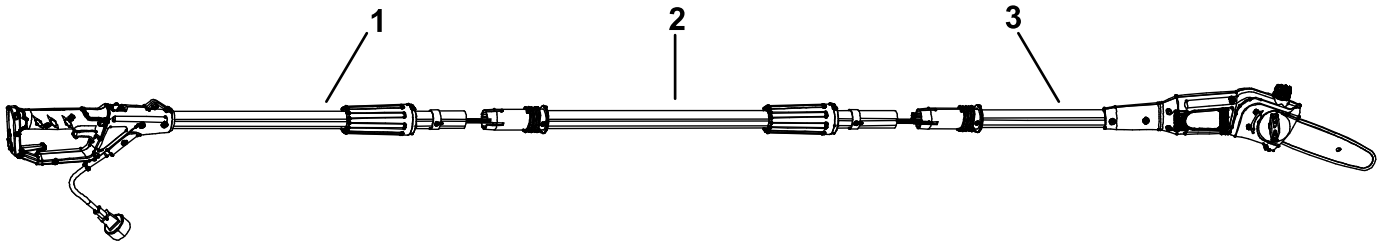

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Figure 4

1. Handle pole section
2. Middle pole section
3. Saw pole section

2. Align the middle pole section with the end of the handle pole section.
3. Slide the collar on the handle pole section upwards and turn it clockwise to secure the sections together (Figure 5).

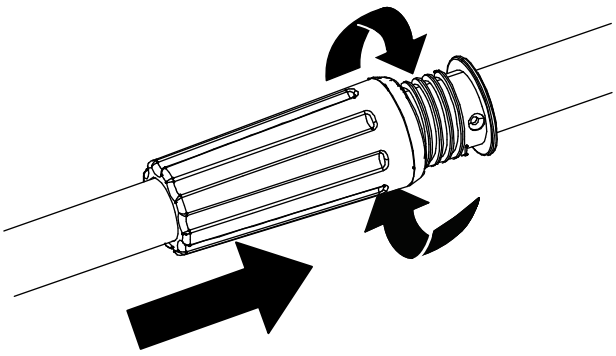

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Figure 5

4. Repeat this procedure to connect the saw pole section to the middle pole section.

3

Adding Bar and Chain Oil to the Pole Saw

No Parts Required

Procedure

Important: **Use only bar and chain oil (sold separately).**

Fill the pole saw with bar and chain oil before first operation; refer to Checking the Oil Level and Adding Bar and Chain Oil (page 11).

Operation

Before Using the Pole Saw

Before using the pole saw, do the following:

- Check the chain tension; refer to Adjusting the Chain Tension (page 12).
- Clean the pole saw components, inspect them for excessive wear or damage, and replace them as needed; refer to Servicing the Guide Bar, Chain, and Drive Sprocket (page 13).
- Check the chain for sharpness and damage, and sharpen or replace as needed; refer to Sharpening the Chain (page 14).
- Check the oil level; refer to Checking the Oil Level and Adding Bar and Chain Oil (page 11).
- Check the pole saw for damage, general appearance, and performance; ensure that the switches move freely, the vents and handles are clean, and the bar is not bent or damaged.

Connecting to a Power Source

⚠ WARNING

If you do not fully seat the extension cord on the inlet plug, the loose plug could lead to overheating and cause a fire, possibly burning you or others.

Ensure that you fully seat the cord on the plug and use the cord lock feature to secure the cord.

***NOTICE!* Do not use a damaged cord.**

Note: This tool has a polarized plug (one blade is wider than the other) and only fits into a polarized outlet or polarized extension cord one way.

Tie together 2 connections so that the cords do not become unplugged as shown in Figure 6.

METHOD OF SECURING EXTENSION CORD

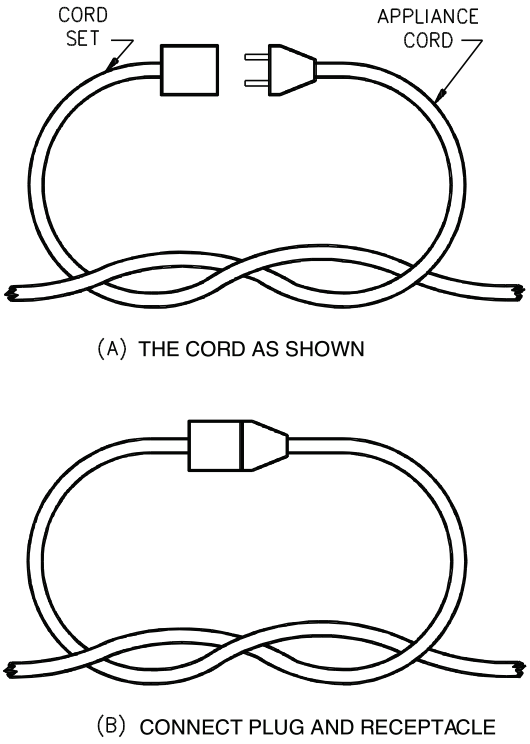

Figure 6

This tool also has a cord lock to secure the cord to the machine; (Figure 7).

1. Form a loop at the end of the extension cord.
2. Put the loop of the extension cord through the opening at the bottom of the handle pole section.
3. Position the loop over the cord lock and pull the ends of the loop until the cord is secured in the lock.
4. Plug the extension cord into the tool plug and ensure that it is fully seated.

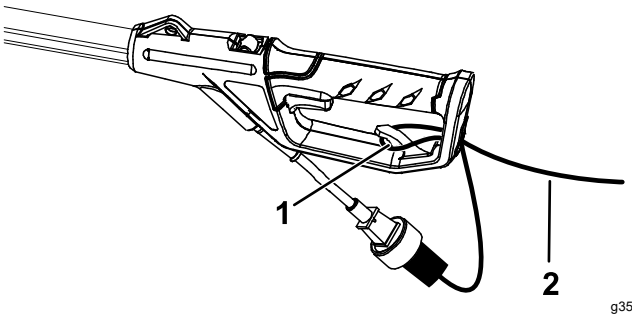

Figure 7

1. Cord lock
2. Extension cord

Starting the Pole Saw

1. Set the pole saw down on a level surface and remove the protective cover from the chain.
2. Ensure that the vents on the pole saw are free from dust and debris (Figure 8).

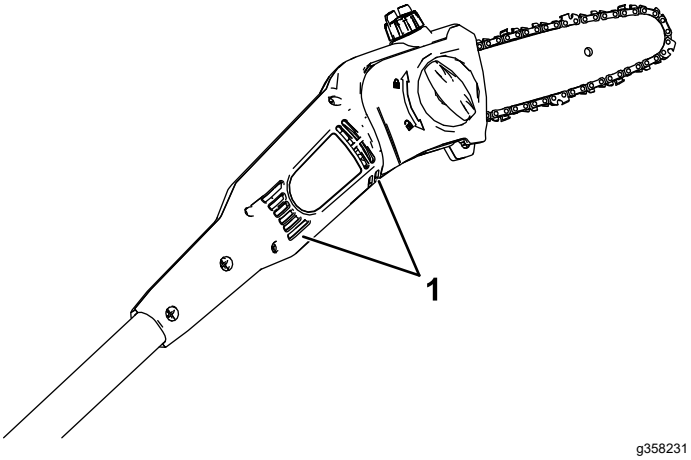

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Figure 8

1. Vents

3. Press down on the lock-out button, then squeeze the trigger to start the pole saw.

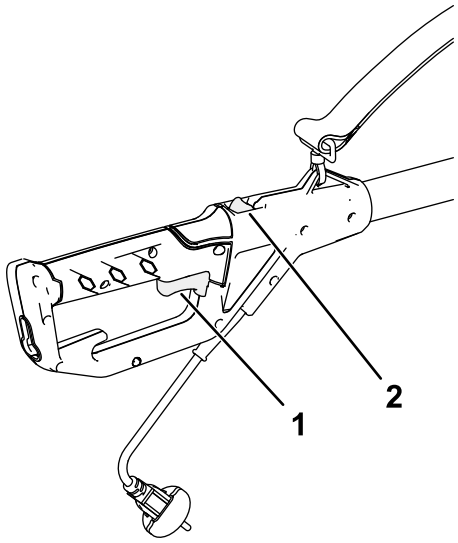

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Figure 9

1. Trigger
2. Lock-out button

Shutting Off the Pole Saw

To shut off the pole saw, release the trigger and the lock-out button.

Cutting with the Pole Saw

⚠ WARNING

Operating a pole saw improperly can cause serious personal injury or death.

Read and follow all operating instructions carefully to avoid possible personal injury.

⚠ WARNING

Do not operate near electrical power lines; the pole saw has not been designed to provide protection from electric shock in the event of contact with overhead electric lines,

Consult local regulations for safe distances from overhead electric power lines and ensure that the operating position is safe and secure before operating the pole saw.

⚠ WARNING

Kickback can cause serious or fatal injury to you.

Avoid touching objects to be cut with the nose of the pole saw guide bar.

There are 2 types of kickback:

- A fast **upward** motion of the pole saw that results when the chain at the nose or top of the bar contacts an object
- A fast **backward** motion of the pole saw that results when the chain at the nose or top of the bar is pinched by the object being cut

Figure 10 shows the area of the bar to avoid contacting an object to prevent kickback.

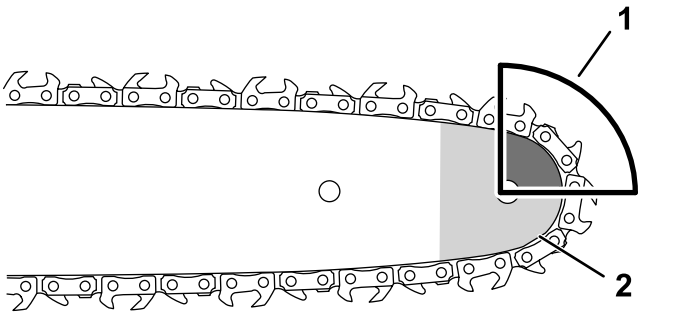

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Figure 10

1. Kickback area (nose, top of the bar)
2. Nose

1. Grip the pole saw with 2 hands.
2. Stand on solid, even ground in front of the tree to be trimmed and position yourself for balanced, stable footing while cutting.
3. Ensure that you only cut the wood that you intend to cut; do not allow the saw chain to contact the earth, other logs, or any other objects when cutting.
4. Ensure that the saw chain is rotating at full speed before starting a cut.

5. Cut with the branch near the rear of the guide bar, close to the cutting guide; press the saw chain lightly against the wood and allow the weight of the pole saw to drive the cutting (Figure 11).

Important: **If the chain binds in the cut, do not attempt to free it by running the motor. Shut off the pole saw, disconnect the plug from the power source, and lift the limb while holding the saw; this should release the pinch and free the pole saw.**

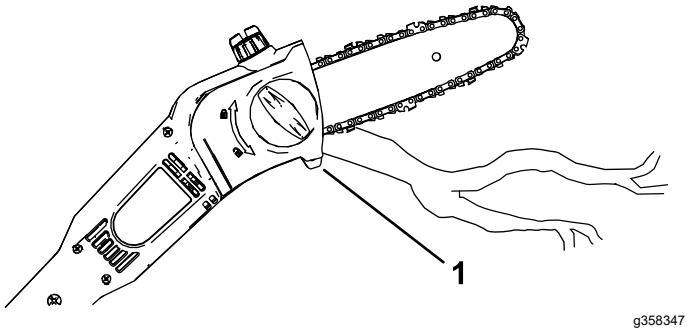

Figure 11

1. Cutting guide

6. Keep steady pressure on the pole saw, cutting in a straight line, and release pressure only near the end of the cut.
7. Release the trigger as soon as you complete a cut.

Pruning a Tree

⚠ WARNING

Cutting higher limbs from a tree off the ground can put you in an unstable position that could be unsafe for you while handling a pole saw, resulting in possible serious personal injury or death to you or bystanders.

When cutting limbs from a standing tree, use the following practices:

- **Do not climb on limbs or branches with a pole saw.**
- **Do not overreach, and cut with both hands on the pole saw.**
- **Ensure that all bystanders are away from the area where branches may fall.**

1. Grip the pole saw as described in Cutting with the Pole Saw (page 9).
2. While cutting small branches, apply light pressure to the branch to be cut.
3. While cutting larger branches, make a shallow undercut and then complete the cut from the topside of the branch.
   A. Cut from the underside of the limb about 15 cm (6 inches) from the trunk. Cut a third of the way through the limb.
   B. Cut 5.0 to 10.0 cm (2 to 4 inches) farther out on the limb and from above. Cut the limb until it falls.
   C. Cut the limb stub at the branch collar (Figure 12).

   Important: **Do not cut the limb past the collar, flush to the trunk, or leave a large limb stub; this damages the tree.**

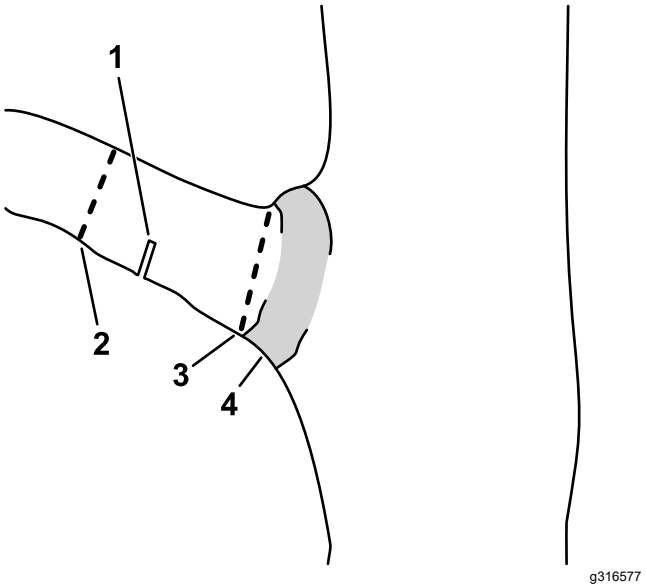

Figure 12

1. First relief undercut
2. Second through cut
3. Final pruning cut to remove the limb stub
4. Branch collar (where the trunk transitions to the limb)

Maintenance

Recommended Maintenance Schedule(s)

Maintenance Service Interval	Maintenance Procedure
Before each use or daily	• Check the oil level and add bar and chain oil if necessary. • Check that oil is flowing to the chain. • Check the chain tension and adjust it if necessary. • Ensure that the bar is straight and undamaged • Check the chain for sharpness; contact an Authorized Service Dealer to have the chain sharpened or replaced.
Yearly or before storage	• Service the guide bar, chain, and drive sprocket. • Check the chain for sharpness; contact an Authorized Service Dealer to have the chain sharpened or replaced.

Checking the Oil Level and Adding Bar and Chain Oil

Service Interval: Before each use or daily

Important: **Use only bar and chain oil (sold separately).**

1. Shut off the pole saw; refer to Shutting Off the Pole Saw (page 9).
2. Check the oil level in the window. If the oil does not fill the window, add bar and chain oil as needed (Figure 13).

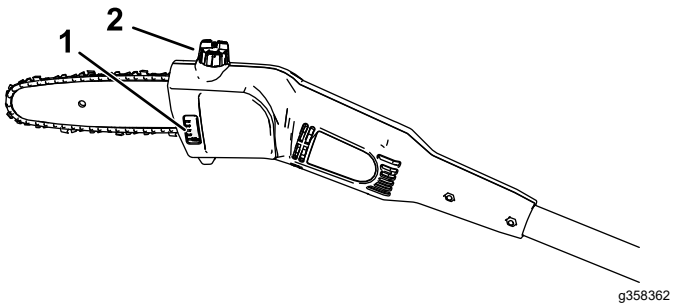

Figure 13

1. Oil window
2. Oil cap

3. Place the pole saw on a flat surface with the oil cap facing up.
4. Clean the area around the oil cap (Figure 13).

   Note: Ensure that you do not allow debris/wood chips to enter the oil tank.
5. Unfold the wing-nut tab on the oil cap tab, remove the cap, and pour bar and chain oil into the pole saw until the oil fills the tank (Figure 13).

   Important: **Do not fill the pole saw higher than the bottom of the fill neck.**
6. Clean up any spilled oil, secure the oil cap, and fold the wing-nut tab down.
7. Ensure that oil is flowing to the chain; refer to Checking the Flow of Bar and Chain Oil (page 11).

Checking the Flow of Bar and Chain Oil

Service Interval: Before each use or daily

1. Prepare to use the pole saw; refer to Before Using the Pole Saw (page 8).
2. To ensure that oil is flowing to the chain, point the nose of the pole saw a few inches from a surface (e.g. paper, cardboard, a stump) and run the pole saw; you should be able to see a light spray of oil on the surface (Figure 14).

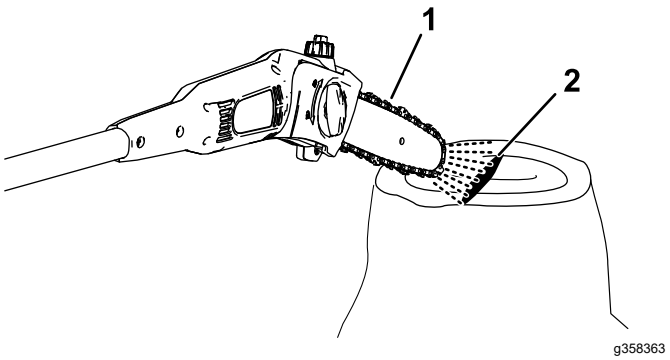

Figure 14

1. Run the pole saw a few inches from a surface.
2. If the oil is flowing, it will spray off the chain and accumulate.

3. If oil is not flowing, ensure that there is oil in the tank and that the area under the side cover is clean; refer to Checking the Oil Level and Adding Bar and Chain Oil (page 11) and Servicing the Guide Bar, Chain, and Drive Sprocket (page 13).

Adjusting the Chain Tension

Service Interval: Before each use or daily

Ensure that the chain is properly tensioned.

A loose chain shortens the life of the drive sprocket and the guide bar and may cause the chain to fall off.

An overtightened chain overheats the guide bar and chain, causing rapid wear, and may burn out the motor or break the chain.

The chain tension is correct when you are able to use a gloved hand to pull the chain smoothly around the guide bar. The chain should remain in contact with the bottom edge of the guide bar.

Also, check the chain tension of a new chain after a few cuts; a new chain usually stretches and requires adjustment after a few cuts.

⚠ DANGER

Contact with the pole saw teeth can cause serious personal injury.

- **Disconnect the plug from the power source before adjusting or maintaining the pole saw.**
- **Always wear gloves when adjusting or maintaining the pole saw.**

1. Place the pole saw on a level surface and disconnect the machine from the power supply; refer to Shutting Off the Pole Saw (page 9).
2. Allow the saw chain to cool.

   Important: **Do not tension a hot chain; it may contract as it cools, resulting in an overtightened chain.**
3. Inspect the guide bar for bends or damage, replace if necessary.
4. Turn the bar cover knob counterclockwise to loosen the bar cover, but do not remove it (Figure 15).

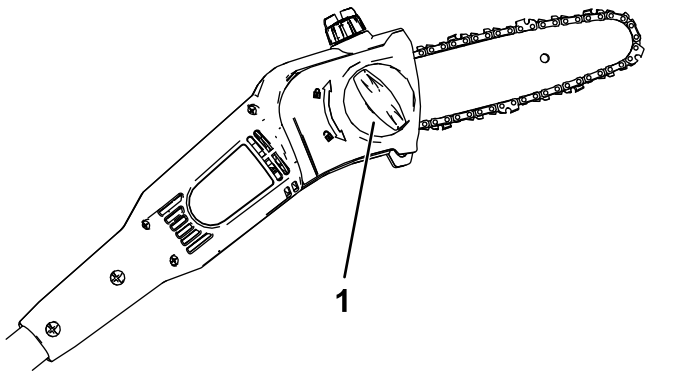

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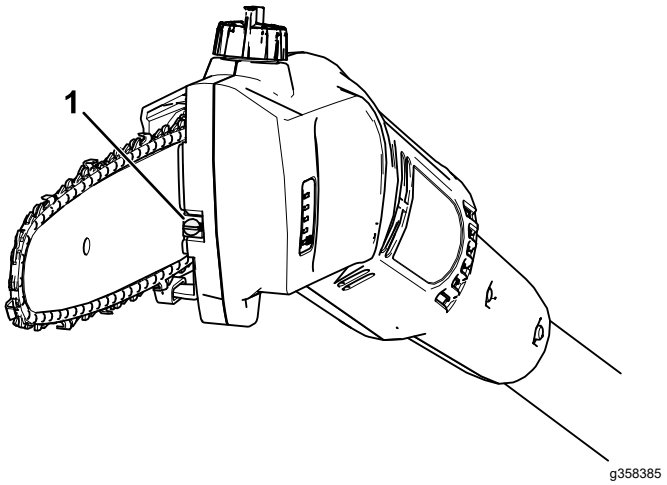
Figure 15

1. Bar cover knob

5. Adjust the chain tension using the chain tensioning screw (Figure 16), and then secure the side cover to the pole saw by turning the bar cover knob clockwise before checking the tension (Figure 15).
   - **To tighten the chain,** turn the chain tensioning screw clockwise.
   - **To loosen the chain,** turn the chain tensioning screw counterclockwise.



g358385

Figure 16

1. Chain tensioning screw

   Adjust the chain tension until the chain touches the bottom edge of the guide bar, then pull the chain away from the bottom edge of the guide bar; a properly adjusted chain can only be pulled 3.2 to 6.4 mm (1/8 to 1/4 inch) away from the guide bar, and snaps back on release.

   Note: While adjusting the chain tension, lift up the tip of the guide bar with a gloved hand to ensure the guide bar does not sag and affect chain tension.
6. Use a gloved hand to pull the chain around the guide bar. A properly tensioned chain should move smoothly and remain in contact with the bottom edge of the guide bar.
7. If the chain is not properly tensioned, repeat steps 4 through 7.

Servicing the Guide Bar, Chain, and Drive Sprocket

Yearly or before storage

⚠ DANGER

Contact with the pole saw teeth can cause serious personal injury.

- **Disconnect the plug from the power source before adjusting or maintaining the pole saw.**
- **Always wear gloves when adjusting or maintaining the pole saw.**

1. Place the pole saw on a flat surface and disconnect the plug from the power source; refer to Shutting Off the Pole Saw (page 9).
2. Remove the side cover; turn the bar cover knob counterclockwise until the knob is removed and then remove the side cover (Figure 17).

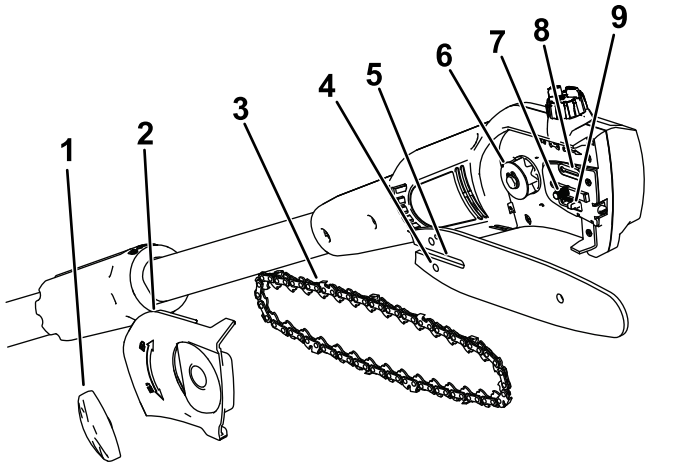


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Figure 17

1. Bar cover knob
2. Side cover
3. Chain
4. Chain adjusting stud slot
5. Guide bar slot
6. Drive sprocket
7. Guide bar stud
8. Oil outlet
9. Chain adjusting stud

3. Loosen the chain by turning the chain-tightening screw counterclockwise (Figure 16).
4. Separate the chain from the guide bar and set them aside.
5. Clean any debris from the area under the side cover.
6. Inspect the drive sprocket; if it is excessively worn or damaged, replace it; contact your authorized service dealer.
7. Check the oil outlet (Figure 17) for debris and clean the area if necessary.
8. Clean the guide bar and chain; use a wire or a small flat-head screwdriver to remove dirt and debris from the groove along the edge of the guide bar, starting from the sprocket on the front end and moving rearward.

   Ensure that the oil channel in the bar that aligns with the oil outlet on the pole saw is clean so that oil can flow freely to the chain (Figure 18).

g315856

Figure 18

Internal sections of the guide bar shown

1. Ensure that this channel connecting to the oil outlet is clean.
2. Ensure that the bar sprocket is clean and rotates freely.

9. Inspect the guide bar and chain; if the bar is bent, the grooves are damaged, or if the sprocket on the front end does not rotate freely, replace the guide bar; if the chain is excessively worn or damaged, replace it.
10. Install the guide bar and chain; refer to Installing the Guide Bar and Chain (page 14).
11. Ensure that oil is flowing to the chain; refer to Checking the Flow of Bar and Chain Oil (page 11).

Installing the Guide Bar and Chain

⚠ DANGER

Contact with the pole saw teeth can cause serious personal injury.

- **Disconnect the plug from the power source before adjusting or maintaining the pole saw.**
- **Always wear gloves when adjusting or maintaining the pole saw.**

1. If the side cover is installed to the machine, remove it; refer to Servicing the Guide Bar, Chain, and Drive Sprocket (page 13).
2. Place the chain around the sprocket on the front end of the guide bar, **with the cutting edge of the chain teeth on the top of the bar facing forward** as shown in the diagram beneath the side cover of the pole saw.
3. Feed the chain around the guide bar and align the chain into the groove of the guide bar.

   Note: If you are installing a new chain, flip the guide bar to avoid uneven wear.
4. Position the open loop of the chain (not on the guide bar) around the drive sprocket on the pole saw and install the guide bar and attached chain onto the pole saw.

   Important: **Ensure that the chain adjusting stud is inserted into the chain adjusting stud slot on the guide bar (Figure 17). You may need to rotate the chain-tensioning screw to fit the stud into the hole in the guide bar.**
5. Install the side cover, but do not fully tighten the side cover knob.
6. Adjust the chain tension; refer to Adjusting the Chain Tension (page 12).

Sharpening the Chain

Yearly or before storage

A sharp chain ensures better cutting performance.

The chain needs to be sharpened or replaced if you must force it onto the wood, or if it produces sawdust instead of full wood chips.

Contact an Authorized Service Dealer to have the chain sharpened or replaced.

Service

Should the pole saw need service, take the tool to your Authorized Service Dealer.

Storage

- Disconnect the machine from the power supply and check for damage after use.
- Clean all foreign material from the machine.
- Store the machine in a well-ventilated place that is inaccessible to children.
- Keep the machine away from corrosive agents such as garden chemicals and de-icing salts.
- Store the machine in an enclosed clean, dry area.

Troubleshooting

Perform only the steps described in these instructions. All further inspection, maintenance, and repair work must be performed by an authorized service center or a similarly qualified specialist if you cannot solve the problem yourself.

Problem	Possible Cause	Corrective Action
The pole saw does not run or does not run continuously.	1. The machine is not connected to the power supply. 2. There is debris under the cover.	1. Ensure that the inlet plug is fully seated on the extension cord and that the extension cord is plugged in. 2. Remove the cover and clean out any debris.
The pole saw runs, but the chain does not rotate.	1. The chain is not properly seated on the drive sprocket. 2. There is debris under the cover.	1. Install the chain and ensure that the links are properly seated in the drive sprocket. 2. Remove the cover and clean out any debris.
The pole saw does not properly cut.	1. The chain is not tensioned correctly. 2. The chain is dull or damaged. 3. The guide bar is bent or the grooves are damaged. 4. The chain is installed backward. 5. The chain is not being lubricated properly.	1. Set the proper tension on the chain. 2. Replace the chain. 3. Replace the guide bar 4. Install the chain correctly. 5. Check the oil level and ensure that oil is flowing to the chain.
The chain oil is not lubricating properly.	1. The oil level is low. 2. The oil outlet is plugged. 3. There is debris under the cover. 4. The oil channel or groove in the guide bar is plugged.	1. Check the oil level. 2. Clean out debris from the oil outlet. 3. Remove the cover and clean out any debris. 4. Clean out debris in the bar.

California Proposition 65 Warning Information

What is this warning?

You may see a product for sale that has a warning label like the following:

WARNING: Cancer and Reproductive Harm—www.p65Warnings.ca.gov.

What is Prop 65?

Prop 65 applies to any company operating in California, selling products in California, or manufacturing products that may be sold in or brought into California. It mandates that the Governor of California maintain and publish a list of chemicals known to cause cancer, birth defects, and/or other reproductive harm. The list, which is updated annually, includes hundreds of chemicals found in many everyday items. The purpose of Prop 65 is to inform the public about exposure to these chemicals.

Prop 65 does not ban the sale of products containing these chemicals but instead requires warnings on any product, product packaging, or literature with the product. Moreover, a Prop 65 warning does not mean that a product is in violation of any product safety standards or requirements. In fact, the California government has clarified that a Prop 65 warning "is not the same as a regulatory decision that a product is 'safe' or 'unsafe.'" Many of these chemicals have been used in everyday products for years without documented harm. For more information, go to https://oag.ca.gov/prop65/faqs-view-all.

A Prop 65 warning means that a company has either (1) evaluated the exposure and has concluded that it exceeds the "no significant risk level"; or (2) has chosen to provide a warning based on its understanding about the presence of a listed chemical without attempting to evaluate the exposure.

Does this law apply everywhere?

Prop 65 warnings are required under California law only. These warnings are seen throughout California in a wide range of settings, including but not limited to restaurants, grocery stores, hotels, schools, and hospitals, and on a wide variety of products. Additionally, some online and mail order retailers provide Prop 65 warnings on their websites or in catalogs.

How do the California warnings compare to federal limits?

Prop 65 standards are often more stringent than federal and international standards. There are various substances that require a Prop 65 warning at levels that are far lower than federal action limits. For example, the Prop 65 standard for warnings for lead is 0.5 µg/day, which is well below the federal and international standards.

Why don't all similar products carry the warning?

- Products sold in California require Prop 65 labelling while similar products sold elsewhere do not.
- A company involved in a Prop 65 lawsuit reaching a settlement may be required to use Prop 65 warnings for its products, but other companies making similar products may have no such requirement.
- The enforcement of Prop 65 is inconsistent.
- Companies may elect not to provide warnings because they conclude that they are not required to do so under Prop 65; a lack of warnings for a product does not mean that the product is free of listed chemicals at similar levels.

Why does the manufacturer include this warning?

the manufacturer has chosen to provide consumers with as much information as possible so that they can make informed decisions about the products they buy and use. the manufacturer provides warnings in certain cases based on its knowledge of the presence of one or more listed chemicals without evaluating the level of exposure, as not all the listed chemicals provide exposure limit requirements. While the exposure from the manufacturer products may be negligible or well within the "no significant risk" range, out of an abundance of caution, the manufacturer has elected to provide the Prop 65 warnings. Moreover, if the manufacturer does not provide these warnings, it could be sued by the State of California or by private parties seeking to enforce Prop 65 and subject to substantial penalties.