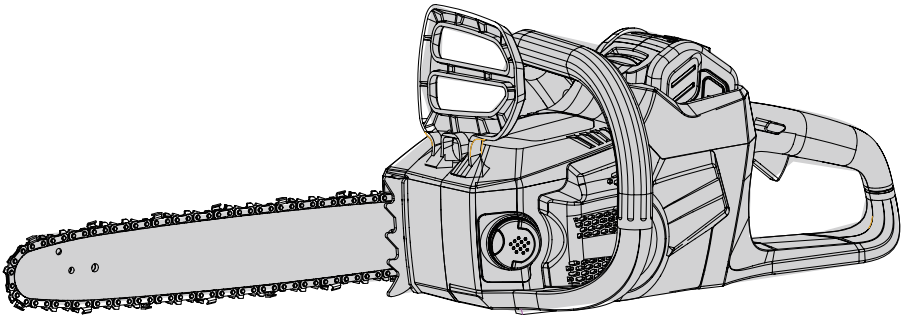


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**greenworks™**

**40V CORDLESS CHAINSAW**  
**2000902**



  
c **SA** <sup>®</sup> us  
218549

Owner's Manual

**TOLL-FREE HELPLINE: 1-888-90WORKS** (888.909.6757)

[www.GreenWorksTools.com](http://www.GreenWorksTools.com)

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 Read all safety rules and instructions carefully before operating this tool.

# CONTENTS

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Contents .....	2
Product specifications.....	2
General safety rules .....	3-5
Symbols.....	6-7
Know your blower .....	8
Assembly instruction.....	9-11
Operation.....	12-14
Maintenance.....	15
Troubleshooting.....	16
Warranty.....	17
Exploded View.....	18
Part List .....	19

# PRODUCT SPECIFICATIONS

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## 40V BRUCHLESS CHAINSAW

Bar length .....	14 in. (356 mm)
Chain pitch.....	3/8 in. (9.5 mm)
Chain gauge.....	0.05 in. (1.27 mm)
Chain type.....	91PJ052X
Guide bar type.. ..	140SDEA041
Chain oil tank capacity.. ..	1.8 oz (50 ml)
Unit weight (without 4A battery).. ..	3.3 lbs. (1.5 kg)



# GENERAL SAFETY RULES

---

## **W A R N I N G**

**Read and understand all instructions before using this product.** Failure to follow all instructions listed below may result in electric shock, fire, and/or serious personal injury.

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- Do not start cutting until you have a clear work area, secure footing, and a planned retreat path from the falling tree. Cluttered areas invite accidents.
- Keep all children, bystanders, visitors, and animals out of the work area while starting or cutting with the chain saw.
- Do not operate chain saw in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust. Power tools create sparks which may ignite the dust or fumes.
- Wear snug fitting clothing. Always wear heavy, long pants, overalls, jeans or chaps made of cut resistant material or ones that contain cut resistant inserts. Wear non-slip safety footwear. Wear non-slip heavy duty gloves to improve your grip and to protect your hands. Do not wear jewelry, short pants, sandals, or go barefoot. Do not wear loose fitting clothing, which could be drawn into the motor or catch the chain or underbrush. Secure hair so it is above shoulder level.
- Heavy protective clothing may increase operator fatigue, which could lead to heat stroke. During weather that is hot and humid, heavy work should be scheduled for early morning or late afternoon hours when temperatures are cooler.
- Wear eye protection which is marked to comply with ANSI Z87.1 as well as hearing and head protection when operating this equipment.
- Always be aware of what you are doing when using the chain saw. Use common sense. Do not operate the chain saw when you are tired, ill, or under the influence of alcohol, drugs, or medication.
- Do not expose the chain saw to rain.
- Do not use the chain saw in damp or wet locations.
- Stay alert and pay attention to what you are doing. Use common sense when using this unit.
- Keep all parts of your body away from the saw chain when the unit is running.
- Always carry the chain saw by the front handle with the battery removed and the guide bar and saw chain positioned to the rear.
- Never let anyone use your chain saw who has not received adequate instructions in its proper use.
- Before you start the unit, make sure the saw chain is not contacting any object.
- Stop the chain saw before setting it down.
- To avoid accidental starting, never carry the unit with your finger on the trigger switch.
- Maintain the unit with care. Keep the cutting edge sharp and clean for best performance and to reduce the risk of injury. Follow instructions for lubricating and changing accessories.
- Keep handles dry, clean, and free of oil and grease.

# GENERAL SAFETY RULES

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- Do not dispose of batteries in a fire, the cell may explode, check with local codes for possible special disposal instruction.
- Do not open or mutilate the batteries; released electrolyte is corrosive and may cause damage to the eyes or skin, and may be toxic if swallowed.
- Exercise care in handling battery in order not to short the battery with conducting material such as rings, bracelets and keys. The battery or conductor may overheat and cause burns.
- Do not operate a chain saw with one hand. Use a firm grip with thumbs and fingers encircling the chain saw handles. Serious injury to the operator, helpers, bystanders, or any combination of these persons may result from one-handed operation. A chain saw is intended for two handed use.
- Avoid body contact with grounded surfaces such as metal pipes and wire fences. There is an increased risk of electric shock if your body is grounded.
- Do not operate a chain saw that is damaged, improperly adjusted, or not completely and securely assembled. The chain should slow to a stop when the trigger switch is released. If the chain continues to turn after the trigger switch has been released, have the unit serviced by an authorized service center.
- Check for damaged parts. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by an authorized service dealer unless otherwise indicated elsewhere in this manual.
- All chain saw service, other than the items listed in the operation and maintenance sections, should be performed by your authorized service center.
- Always maintain a proper stance.
- Do not use chain saw if switch does not turn it on and off. Have defective switch replaced by authorized service center.
- Remove the battery when not in use, before servicing, and when making adjustments and changing attachments, such as saw chain and bar.
- Do not cut vines and/or small underbrush.
- Do not operate a chain saw in a tree, on a ladder, or scaffold; this is extremely dangerous.
- Use extreme caution when cutting small size brush and saplings because the small material may catch the saw chain and be whipped toward you or pull you off balance.
- When cutting a limb that is under tension, be alert for spring back so that you will not be struck when the tension in the wood fibers is released.
- Do not force the chain saw. The job can be performed better and safer at the rate for which it was intended.
- Always use the right product for your application. The chain saw should be used for cutting wood only. Never use the chain saw to cut plastic, masonry or non-wood building materials.

# GENERAL SAFETY RULES

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- Use only Yardworks 40 V batteries.
  - Do not use the chain saw for purposes not intended.
  - Store chain saw when not in use. Chain saw should be stored in a dry and high or locked area out of the reach of children.
  - Save these instructions. Refer to them frequently and use them to instruct others who may use this tool. If you loan someone this tool, loan them these instructions also.
  - Always use two hands when operating the chain saw.
  - Contact of the guide-bar tip with any object should be avoided.
  - Tip contact may cause the guide bar to move suddenly upward and backward, which may cause serious injury.
- 

## **W A R N I N G**

When using an cordless chain saw, basic safety precaution should be always followed to reduce the risk of fire, electric shock, and injury to persons, including the following:

---

## **W A R N I N G**

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contain chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

1. Lead from lead-based paints.
2. Crystalline silica from bricks and cement and other masonry products, and
3. Arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals, work in a wellventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

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# GENERAL SAFETY RULES

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## **WARNING**

Kickback may occur when the moving chain contacts an object at the upper portion of the tip of the guide bar or when the wood closes in and pinches the saw chain in the cut. Contact at the upper portion of the tip of the guide bar can cause the chain to dig into the object and stop the chain for an instant. The result is a lightning fast reverse reaction which kicks the guide bar up and back toward the operator. If the saw chain is pinched along the top of the guide bar, the guide bar can be driven rapidly back toward the operator. Either of these reactions can cause loss of saw control which can result in serious injury. Do not rely exclusively upon the safety devices built into the saw. As a chain saw user, you should take several steps to keep your cutting jobs free from accident or injury.

---

## **CHILD SAFETY**

Tragic accidents can occur if the operator is not aware of the presence of children.

- Keep children out of the working area and under the watchful care of a responsible adult.
- Do not allow children under the age of 14 to operate this blower. Children who are 14 years of age and older must read and understand the operating instructions and safety rules in this manual and must be trained and supervised by a parent.
- Stay alert, and turn the blower off if a child or any other person enters the working area.
- Use extreme care when approaching blind corners, doorways, shrubs, trees, or other objects that may obscure your view of a child who may run into the path of the blower.

# GENERAL SAFETY RULES

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## **⚠ WARNING (PROPOSITION 65)**

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

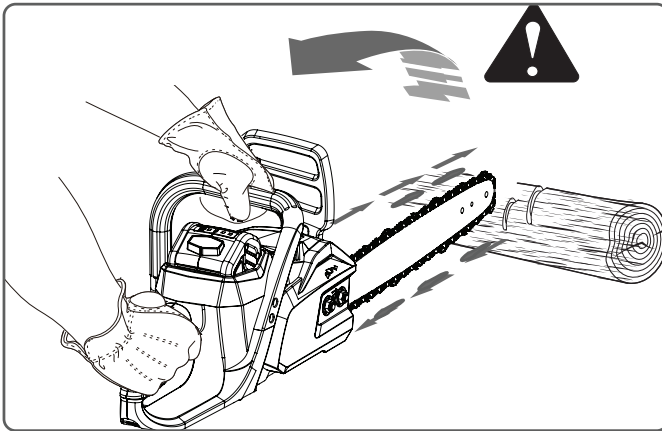
- Lead from lead-based paints
- Crystalline silica from bricks and cement and other masonry products, and
- Arsenic and chromium from chemically treated lumber.

Your risk of exposure to these chemicals varies depending on how often you do this type of work. To reduce your exposure to these chemicals, work in a well-ventilated area, and work with approved safety equipment, such as dust masks that are specially designed to filter out microscopic particles.

---

The following precautions should be followed to minimize kickback:

- Always grip the saw firmly with both hands. Place your right hand on the rear handle and your left hand on the front handle with your thumbs and fingers encircling the chain saw handles. A firm grip together with a stiff left arm will help you maintain control of the saw if kickback occurs.

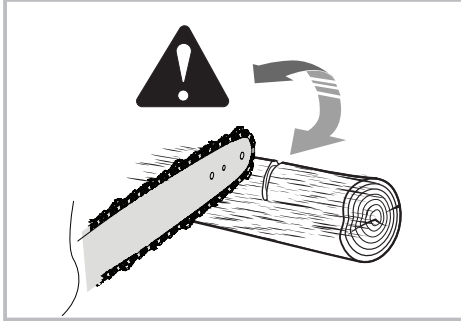


- Make sure that the area in which you are cutting is free from obstructions. Do not let the nose of the guide bar contact a log, branch, fence, or any other obstruction that could be hit while you are operating the saw.
  - Always cut with the unit running. Fully squeeze the trigger switch and maintain cutting speed.
  - Use only the replacement guide bars and low kickback chains specified by the manufacturer for the saw.
-

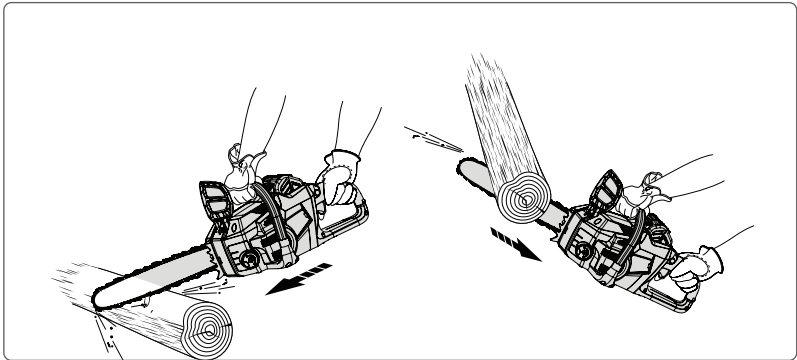
# GENERAL SAFETY RULES

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- With a basic understanding of kickback, you can reduce or eliminate the element of surprise. Sudden surprise contributes to accidents.
- Keep proper footing and balance at all times.
- Do not cut above shoulder height or overreach when cutting.
- Follow the sharpening and maintenance instructions for the saw chain.



- Push and Pull - This reaction force is always opposite to the direction the chain is moving where wood contact is made. Thus, the operator must be ready to control the PULL when cutting on the bottom edge of the bar, and PUSH when cutting along the top edge.



## UNDERSTANDING YOUR CHAIN SAW SAFETY DEVICES














### LOW KICKBACK SAW CHAIN

The rakers (depth gauges) ahead of each cutter can minimize the force of a kickback reaction by preventing the cutters from digging in too deeply at the kickback zone. Only use replacement chain that is equivalent to original chain or has been certified as low kickback chain per ANSI B175.1. Low kickback/skip tooth saw chain is a chain that has met the kickback performance requirements of ANSI B175.1 - 1991. (American National Standard for Power Tools - Gasoline-Powered Chain Saws-Safety Requirements) when tested on the representative sample of chain saws below 3.8 c.i.d. specified in ANSI B175.1 - 1991. As saw chains are sharpened during their useful life, they lose some of the low kickback qualities and extra caution should be used.



# SYMBOLS




Some of the following symbols may be used on this product. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the product

SYMBOLS	DESIGNATION	EXPLANATION
V	Volts	Voltage
A	Amperes	Current
Hz	Hertz	Frequency (cycles per second)
W	Watts	Power
hrs	Hours	Time
$n_0$	No Load Speed	Rational speed, at no load
	Class II Construction	Double-insulated construction
/ min	Per Minute	Revolutions, strokes, surface speed, orbits etc., per minute.
	Lithium-Ion Battery Recycling	Designates that this tool is in compliance with Lithium-Ion battery recycling program requirements.
	Safety Alert Symbol	Precautions that involve your safety.
	Read the Operator's Manual	To reduce the risk of injury, user must read and understand operator's manual before using this product.
	Eye and Head Protection	Wear eye and head protection when operating this equipment.
	Gloves	Wear non-slip, heavy-duty protective gloves when handling the chain saw and the blade.
	Safety Footwear	Wear non-slip safety footwear when using this equipment.
	Kickback	DANGER! Beware of kickback.
	Operate With Two Hands	Hold and operate the saw properly with both hands.
	One Handed	Do not operate the saw using only one hand.
	Bar Nose Contact	Avoid bar nose contact.
	Keep Bystanders Away	Keep all bystanders at least 50 ft. (15 m) away.
	Wear Ear protection	Wear ear protection when operating this equipment.

# SYMBOLS

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The following signal words and meanings are intended to explain the levels of risk associated with this product.

SYMBOL	SIGNAL	MEANING
	<b>DANGER</b>	Indicates an imminently hazardous situation, which, if not avoided, will result in death or serious injury.
	<b>WARNING</b>	Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.
	<b>CAUTION</b>	Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury.
	<b>CAUTION</b>	(Without Safety Alert Symbol) Indicates a situation that may result in property damage.

## SERVICE

Servicing requires extreme care and knowledge and should be performed only by a qualified service technician. For service we suggest you return the product to your nearest **AUTHORIZED SERVICE CENTER** for repair. When servicing, use only identical replacement parts.

---

### **WARNING**

- Not use for wet materials.
  - Disconnect before cleaning or changing accessories.
- 

---

### **WARNING**

To avoid serious personal injury, do not attempt to use this product until you have read this Owner's Manual thoroughly and understand it completely. If you do not understand the warnings and instructions in this Owner's Manual, do not use this product. Call the Toll-free Helpline (1-888-909-6757) for assistance.

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The operation of any power tool can result in foreign objects being thrown into your eyes, which can result in severe eye damage. Before operating a power tool, always wear safety goggles, safety glasses with side shields, or a full face shield when needed. We recommend a Wide Vision Safety Mask for use over eyeglasses or standard safety glasses with side shields. Always use eye protection that is marked to comply with ANSI Z87.1.

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**SAVE THESE INSTRUCTIONS**

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# KNOW YOUR CHAIN SAW

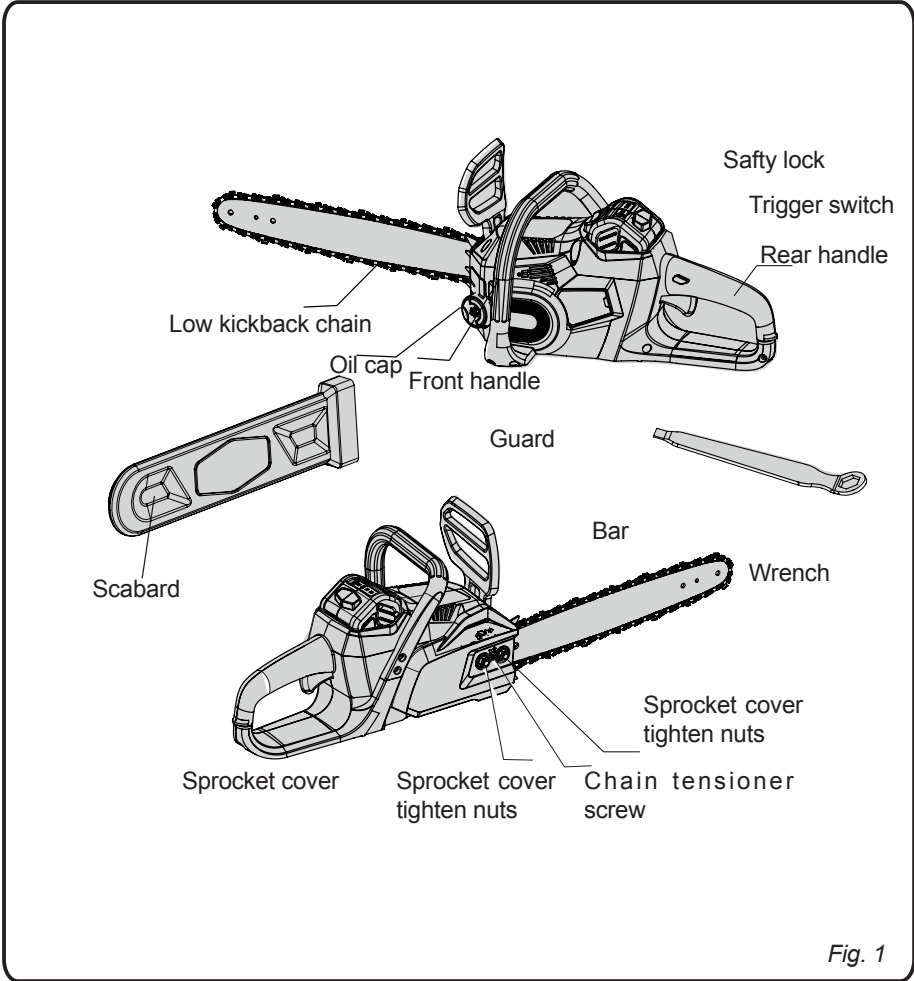


Fig. 1

## KNOW YOUR CHAIN SAW (See Figure 1.)

The safe use of this product requires an understanding of the information on the product and in this operator's manual as well as a knowledge of the project you are attempting. Before use of this product, familiarize yourself with all operating features

# ASSEMBLY INSTRUCTION

---

Before beginning to operate this product, make sure all parts are present. Compare parts with package contents list. If any part is missing or damaged, do not attempt to operate the product.

## **UNPACKING**

This product has been shipped completely assembled.

- Carefully remove the product and any accessories from the box. Make sure that all items listed in the package contents section are included.
- Inspect the product carefully to make sure no breakage or damage occurred during shipping.
- Do not discard the packing material until you have carefully inspected and satisfactorily operated the product.
- If any parts are damaged or missing, please call 1.866.523.5218 for assistance.

---

## **⚠ WARNING**

If any parts are damaged or missing, do not operate this product until the parts are replaced. Using a product with damaged or missing parts could result in serious personal injury.

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## **⚠ WARNING**

Do not attempt to modify this product or create accessories not recommended for use with this product. Any such alteration or modification is misuse and could result in a hazardous condition leading to possible serious personal injury.

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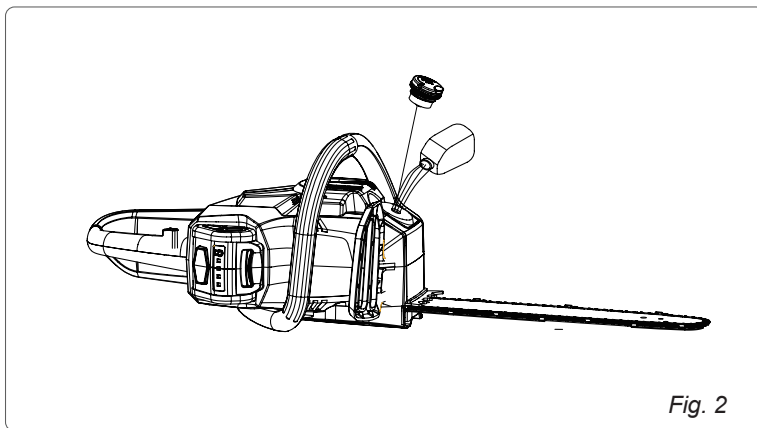
# ASSEMBLY INSTRUCTION

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## ADDING BAR AND CHAIN LUBRICANT

Use a bar and chain lubricant with this product. It is designed for chains and chain oilers, and is formulated to perform over a wide temperature range with no dilution required.

- Remove oil cap.
- Carefully pour the bar and chain oil into the tank.
- Wipe off excess oil and replace cap.
- Check and fill the oil tank when quick view oil indicator is below the MIN. line.
- Repeat as needed.



---

**NOTE:** Chain saw comes from the factory with no bar and chain oil added. The level should also be checked after every 20 minutes of use and refilled as needed.

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### NOTE:

- Do not use dirty, used or otherwise contaminated oils. Damage may occur to the bar or chain.
- It is normal for oil to seep from the saw when not in use. To prevent seepage, empty the oil tank after each use then run for one minute. When storing the unit for a long period of time (three months or longer) be sure the chain is lightly lubricated; this will prevent rust on the chain and bar sprocket.

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## **▲ I M P O R T A N T**

To preserve natural resources, please recycle or dispose of oil properly. Consult your local waste authority for information regarding available recycling and/disposal options.

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# ASSEMBLY INSTRUCTION

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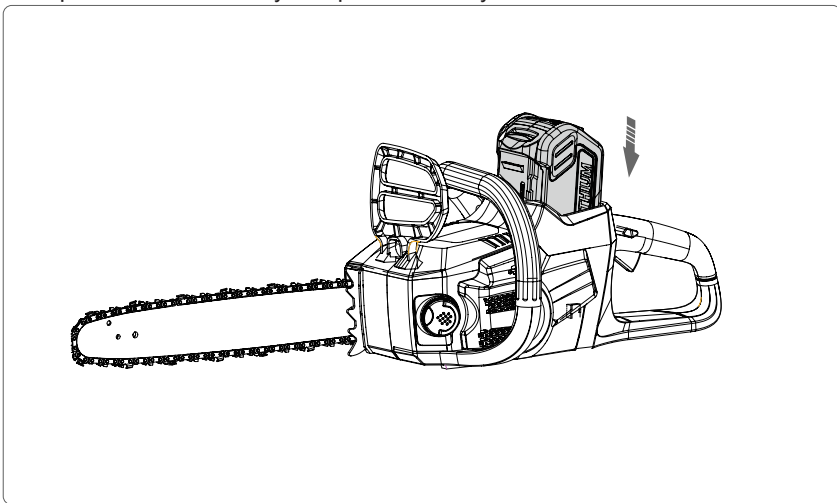
## BATTERY

### TO INSTALL THE BATTERY:

1. Align the battery with the battery opening.
2. Insert the battery into the battery opening until the battery release button locks into place.
3. Push down on the battery until it locks into place. You should hear a “click” once it is installed.

### TO REMOVE THE BATTERY:

1. Press the battery release button on the chain saw. This will cause the battery to raise out of the tool slightly.
2. Grasp the chain saw firmly and pull the battery out of the handle.



---

## **▲** IMPORTANT

The battery may not be charged when it is purchased. Before using the chain saw for the first time, place the battery in the battery charger and charge it fully. Be sure to read all safety precautions and follow the instructions in the battery and charger manuals. When storing the chain saw for a prolonged period of time, remove the battery. When the chain saw is going to be used again, charge the battery for at least a full charging period. The battery has no memory effect.

---

## **▲** WARNING

Follow these instructions in order to avoid injury and to reduce the risk of electric shock or fire:

- Replace the battery or the charger immediately if the battery case or charger cord is damaged.
  - Read, understand, and follow the instructions contained in the charger manual.
- 
-

# OPERATION

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## STARTING AND STOPPING THE CHAIN SAW

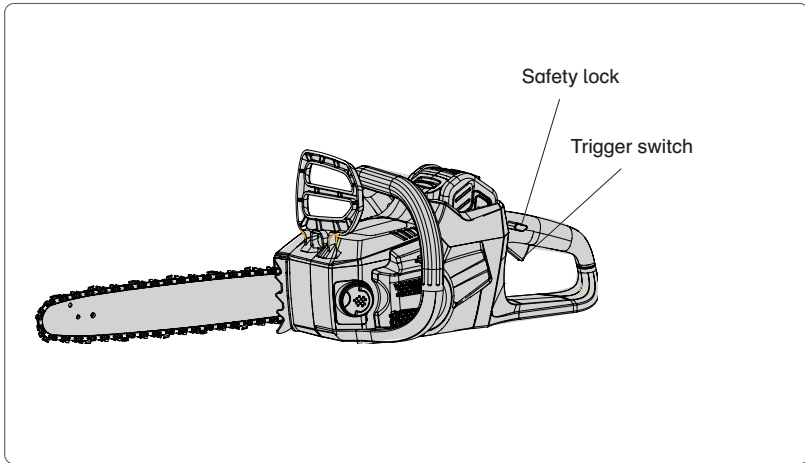
### A. To start the chain saw:

- Make sure chain tension is at desired setting. Refer to adjusting the chain tension in the Care and Maintenance section of this manual.
- Make sure the chain cover lock knob is tight to the chain cover.
- Make sure no objects or obstructions are in the immediate vicinity which could come in contact with the bar and chain.
- Fit the battery into the chain saw.
- Press in the safety lock. This makes the trigger switch operational.
- Press and hold the trigger switch and keep it pressed for continued operation.

### B. To stop the chain saw:

- Release the trigger switch.

Upon release of the trigger switch, the safety lock will be automatically reset to the lock position.



*NOTE: It is normal for the chain to coast to a stop once the trigger switch is released.*

# OPERATION

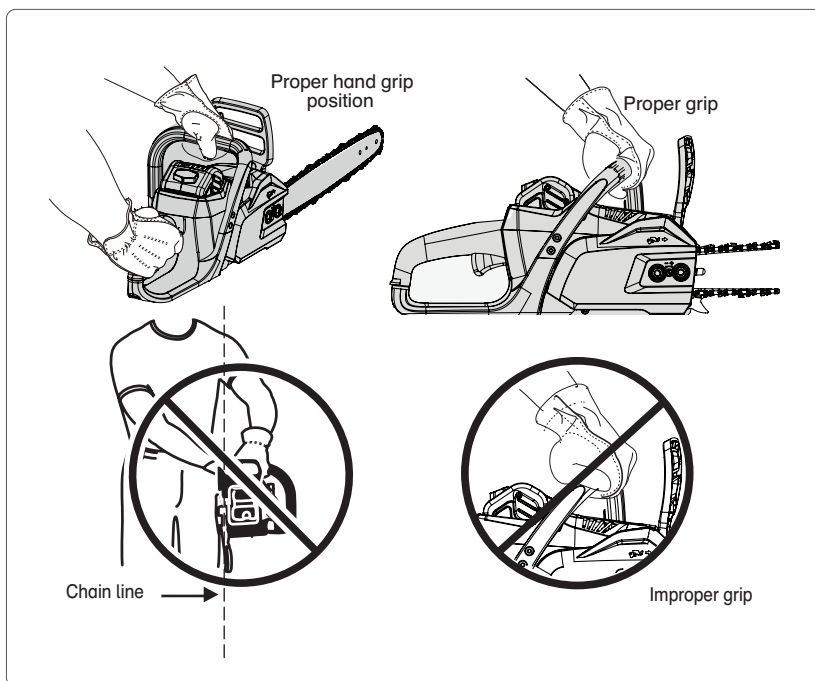
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## PREPARING FOR CUTTING

### A. Proper grip on handles

See General Safety Rules for appropriate safety equipment.

- Wear non-slip gloves for maximum grip and protection.
- Hold the saw firmly with both hands. Always keep your left hand on the front handle and your right hand on the rear handle so that your body is to the left of the chain line.
- Maintain a proper grip on the saw whenever the motor is running. The fingers should encircle the handle and the thumb is wrapped under the handlebar. This grip is least likely to be broken by a kickback or other sudden reaction of the saw. Any grip in which the thumb and fingers are on the same side of the handle is dangerous because a slight kick of the saw can cause loss of control.



---

## **⚠** WARNING

DO NOT operate the trigger switch with your left hand and hold the front handle with your right hand. Never allow any part of your body to be in the chain line while operating a saw. Never use a left-handed (cross-handed) grip or any stance that would place your body or arm across the chain line.

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# OPERATION

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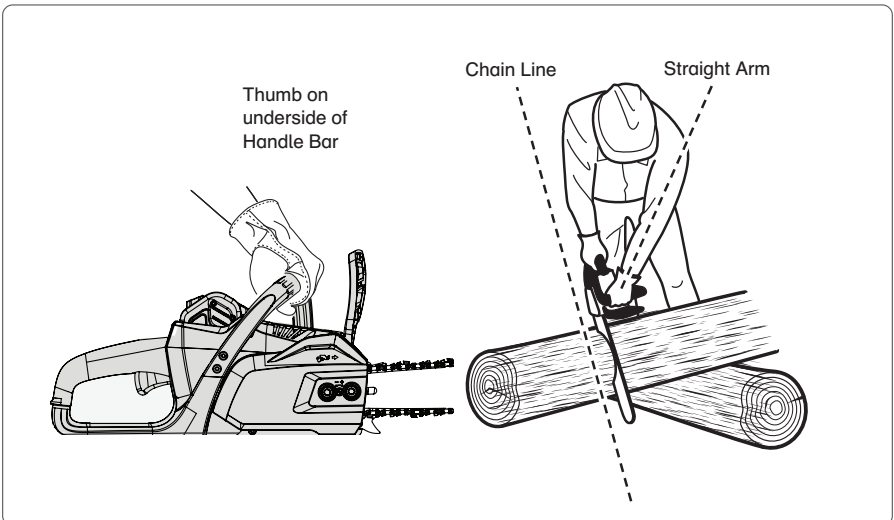
## PROPER CUTTING STANCE

- Balance your weight with both feet on solid ground.
- Keep left arm with elbow locked in a “straight arm” position to withstand any kickback force.
- Keep your body to the left of the chain line.
- Keep your thumb on underside of front handle.

## BASIC OPERATING/CUTTING PROCEDURES

Practice cutting a few small logs using the following technique to get the “feel” of using the saw before you begin a major sawing operation.

- Take the proper stance in front of the wood.
- Press the safety lock and squeeze the trigger switch then release the safety lock and let the chain accelerate to full speed before entering the cut.
- Begin cutting with the saw against the log.
- Keep the unit running the entire time you are cutting, maintain a steady speed.
- Allow the chain to cut for you; exert only light downward pressure. Forcing the cut could result in damage to the bar, chain, or motor.
- Release the trigger switch as soon as the cut is completed, allowing the chain to stop. If you run the saw without a cutting load, unnecessary wear can occur to the chain, bar, and unit.
- Do not put pressure on the saw at the end of the cut.

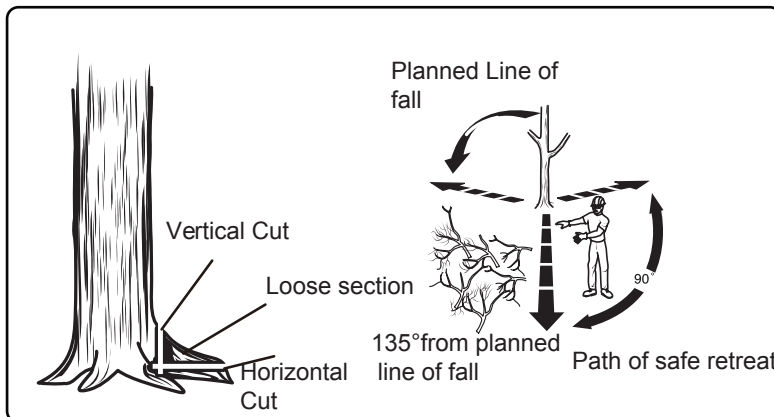


# OPERATION

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## REMOVING BUTTRESS ROOTS

A buttress root is a large root extending from the trunk of the tree above the ground. Remove large buttress roots prior to felling. Make the horizontal cut into the buttress first, followed by the vertical cut. Remove the resulting loose section from the work area. Follow the correct tree felling procedure as stated in Proper Procedure For Tree Felling after you have removed the large buttress roots.

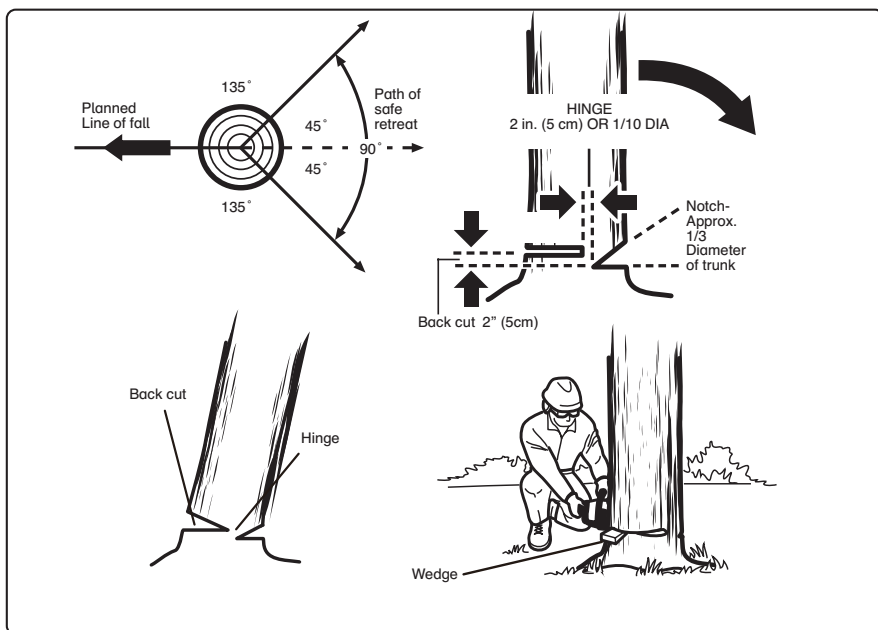


## PROPER PROCEDURE FOR TREE FELLING

- Felling a tree — When bucking and felling operations are being performed by two or more persons at the same time, the felling operation should be separated from the bucking operation by a distance of at least twice the height of the tree being felled. Trees should not be felled in a manner that would endanger any person, strike any utility line or cause any property damage. If the tree does make contact with any utility line, the utility company should be notified immediately.
- Operator should keep on the uphill side of terrain as the tree is likely to roll or slide after it is felled.
- Pick your escape route (or routes in case the intended route is blocked). Clear the immediate area around the tree and make sure there are no obstructions in your planned path of retreat. Clear the path of safe retreat approximately 135° from the planned line of fall.
- Consider the force and direction of the wind, the lean and balance of the tree, and the location of large limbs. These things influence the direction in which the tree will fall. Do not try to fell a tree along a line different from its natural line of fall.
- Remove dirt, stones, loose bark, nails, staples, and wire from the tree where felling cuts are to be made.
- Notched Undercut. Cut a notch about 1/3 the diameter of the trunk on the side of the tree. Make the notch cuts so they intersect at a right angle to the line of fall. This notch should be cleaned out to leave a straight line. To keep the weight of the wood off the saw, always make the lower cut of the notch before the upper cut.

# OPERATION

- **Felling Backcut.** As the felling cut gets close to the hinge, the tree should begin to fall. If there is any chance the tree may not fall in the desired direction or it may rock back and bind the saw chain, stop cutting before the felling cut is complete and use wedges of wood, plastic or aluminum to open the cut and drop the tree along its desired line of fall. Make the backcut level and horizontal, and at a minimum of 2 in. (5 cm) above the horizontal cut of the notch.
- On large diameter trees, stop the back cut before it is deep enough for the tree to either fall or settle back on the stump. Then insert soft wooden or plastic wedges into the cut so they do.
- As tree starts to fall, stop the chain saw and put it down immediately. Retreat along the cleared path, but watch the action in case something falls your way.



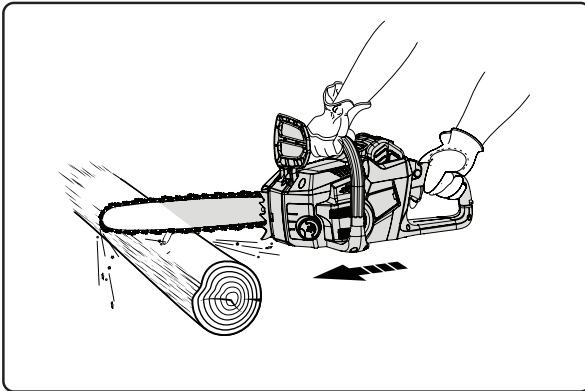
# OPERATION

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## BUCKING

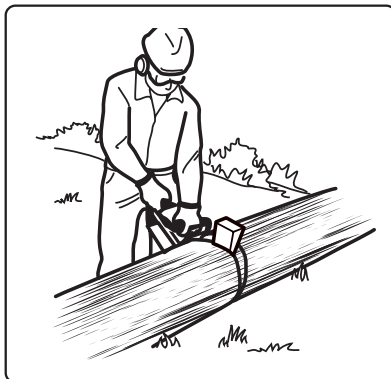
Bucking is the term used for cutting a fallen tree to the desired log length.

- Always make sure your footing is secure and your weight is distributed evenly on both feet.
- Cut only one log at a time.
- Support small logs on a saw horse or another log while bucking.
- Keep a clear cutting area. Make sure that no objects can contact the guide bar nose and chain during cutting as this can cause kickback. Refer to Kickback earlier in this manual.
- When bucking on a slope, always stand on the uphill side of the log. To maintain complete control of the chain saw when cutting through the log, release the cutting pressure near the end of the cut without relaxing your grip on the chain saw handles. Do not let the chain contact the ground. After completing the cut, wait for the saw chain to stop before you move the chain saw. Always stop the motor before moving from tree to tree.



## BUCKING WITH A WEDGE

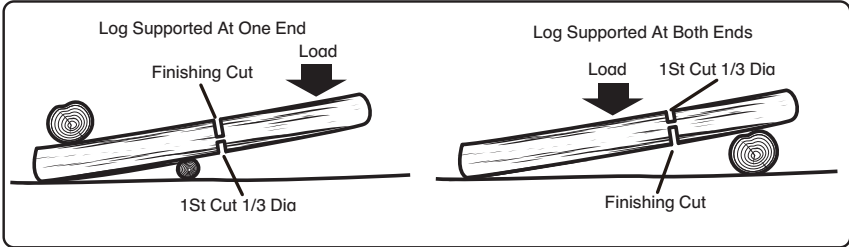
If the wood diameter is large enough for you to insert a soft bucking wedge without touching the chain, you should use the wedge to hold the cut open to prevent pinching.



# OPERATION

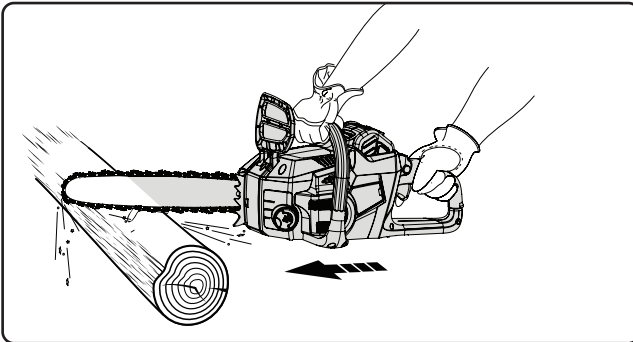
## BUCKING LOGS UNDER STRESS

When the log is supported on one end, cut 1/3 the diameter from the underside. Then make the finished cut by overbucking to meet the first cut. When the log is supported on both ends, cut 1/3 of the diameter from the top overback. Then make the finished cut by under bucking the lower 2/3 to meet the first cut.



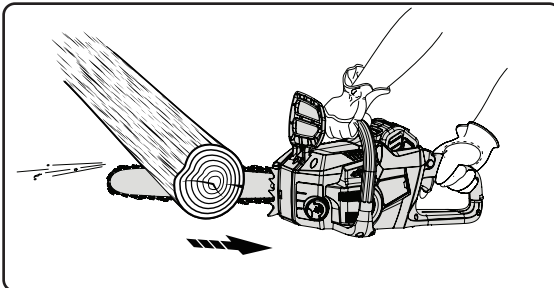
## OVERBUCKING

Begin on the top side of the log with the bottom of the saw against the log; exert light pressure downward. Note that the saw will tend to pull away from you.



## UNDERBUCKING

Begin on the under side of the log with the top of the saw against the log; exert light pressure upward. During under bucking, the saw will tend to push back at you. Be prepared for this reaction and hold the saw firmly to maintain control.



# OPERATION

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## LIMBING

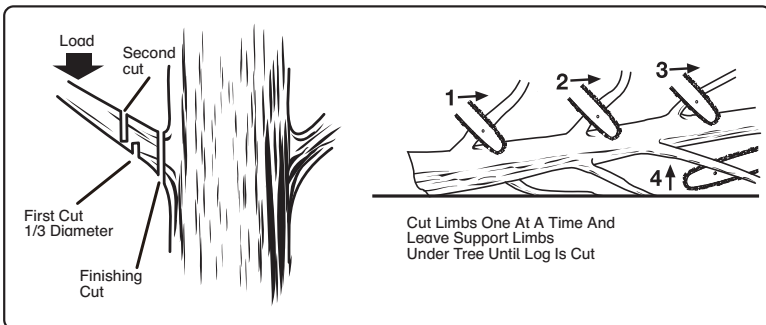
Limbing is removing branches from a fallen tree.

- Work slowly, keeping both hands on the chain saw with a firm grip. Always make sure your footing is secure and your weight is distributed evenly on both feet.
- Leave the larger support limbs under the tree to keep the tree off the ground while cutting.
- Limbs should be cut one at a time. Remove the cut limbs from the work area often to help.
- Keep the work area clean and safe.
- Branches under tension should be cut from the bottom up to avoid binding the chain saw.
- Keep the tree between you and the chain saw while limbing. Cut from the side of the tree opposite the branch you are cutting.

## PRUNING

Pruning is trimming limbs from a live tree.

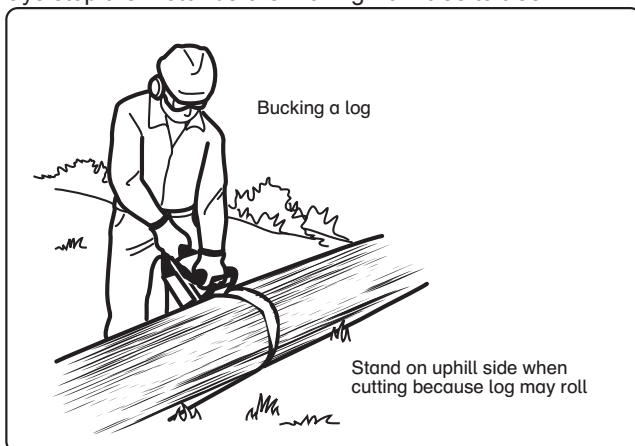
- Work slowly, keeping both hands on the chain saw with a firm grip. Always make sure your footing is secure and your weight is distributed evenly on both feet.
- Do not cut from a ladder. This is extremely dangerous. Leave this operation for professionals.
- Do not cut above chest height as a saw held higher is difficult to control against kickback.
- When pruning trees it is important not to make the finishing cut next to the main limb or trunk until you have cut off the limb further out to reduce the weight. This prevents stripping the bark from the main member.
- Underbuck the branch 1/3 through for your first cut.
- Your second cut should overbuck to drop the branch off.
- Now make your finishing cut smoothly and neatly against the main member so the bark will grow back to seal the wound.



## OPERATION

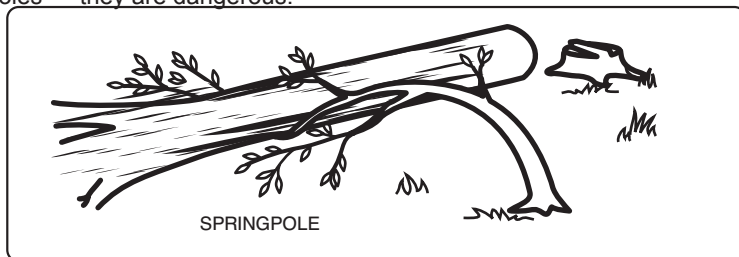
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When bucking on a slope always stand on the uphill side of the log. when cutting through to maintain complete control release the cutting pressure near the end of the cut without relaxing your grip on the chainsaw handle. Don't let the chain contact the ground. After completing the cut wait for the saw chain to stop before you move the chainsaw. Always stop the motor before moving from tree to tree.



### CUTTING SPRINGPOLES

A springpole is any log, branch, rooted stump, or sapling which is bent under tension by other wood so that it springs back if the wood holding it is cut or removed. On a fallen tree, a rooted stump has a high potential of springing back to the upright position during the bucking cut to separate the log from the stump. Watch out for springpoles — they are dangerous.



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### **⚠ WARNING**

If the limbs to be pruned are above chest height, hire a professional to perform the pruning.

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### **⚠ WARNING**

Springpoles are dangerous and could strike the operator, causing the operator to lose control of the chain saw. This could result in severe or fatal injury to the operator.

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# MAINTENANCE

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## GENERAL MAINTENANCE

Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use clean cloths to remove dirt, dust, lubricant, grease, etc., firmly to maintain control.

- Do not at any time let brake fluids, gasoline, petroleum-based products, penetrating oils, etc., come in contact with plastic parts. Chemicals can damage, weaken, or destroy plastic, which may result in serious personal injury.

## LUBRICATION

- All of the bearings in this product are lubricated with a sufficient amount of high grade lubricant for the life of the unit under normal operating conditions. Therefore, no further lubrication is required.

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### **WARNING**

- When servicing, use only identical replacement parts. Use of any other parts may create a hazard or cause product damage.
- Always wear safety goggles or safety glasses with side shields during power tool operation or when blowing dust. If the operation is dusty, also wear a dust mask.

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### **WARNING**

Never start the motor before installing the guide bar, chain, chain cover, and chain cover lock knob. Without all these parts in place, the clutch can fly off or explode, exposing the user to possible serious injury.

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### **WARNING**

- To avoid serious personal injury, read and understand all the safety instructions in this section.
- Before performing any maintenance, make sure the battery is removed. Failure to heed this warning could result in serious personal injury.

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### **WARNING**

Always wear gloves when handling the bar and chain; these components are sharp and may contain burrs.

Never touch or adjust the chain while the motor is running. The saw chain is very sharp; always wear protective gloves when performing maintenance to the chain to avoid possible serious lacerations.

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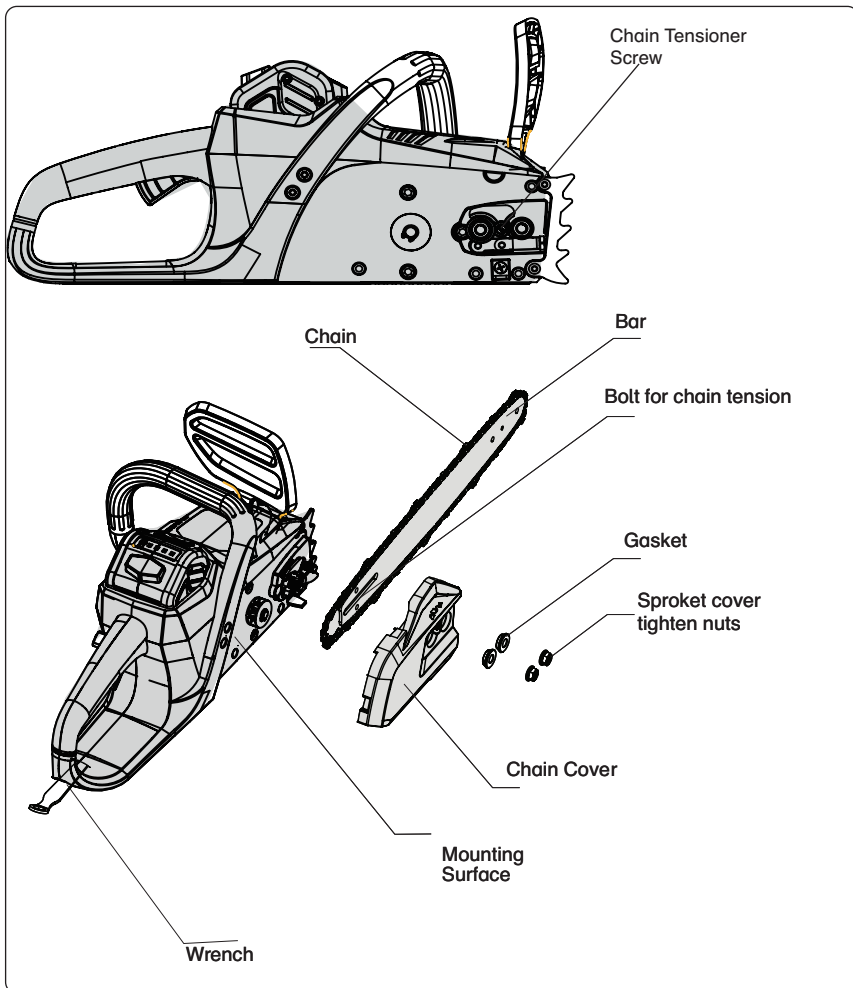
*NOTE: When replacing the guide bar and chain, always use the specified bar and chain listed in the bar and chain combinations section later in this manual.*



# MAINTENANCE

## REPLACING THE GUIDE BAR AND CHAIN

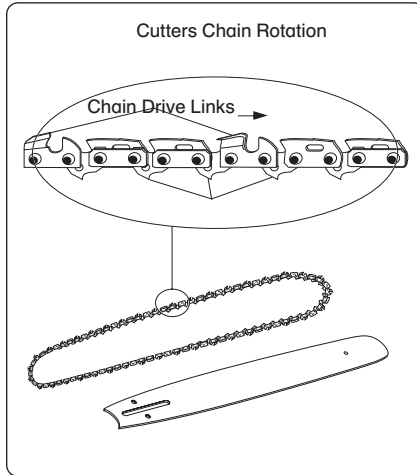
- Remove the battery from the chain saw.
- Remove the supplied wrench from the rear handle.
- Unscrew the sprocket cover tighten nuts from chain cover by rotating them counterclockwise with the wrench and remove the chain cover.
- Remove the bar and chain from the mounting surface.



# MAINTENANCE

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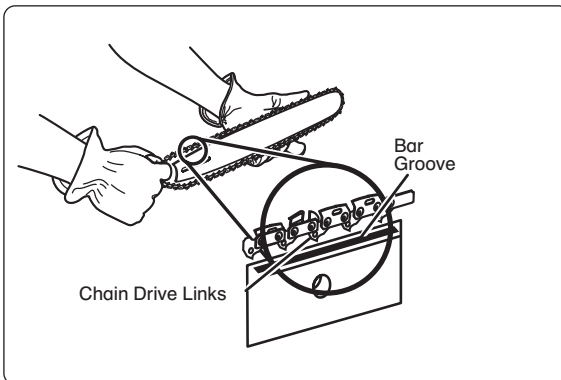
- Lay out the new saw chain in a loop and straighten any kinks. The cutters should face in the direction of chain rotation. If they face backwards, turn the loop over.
- Place the chain drive links into the bar groove.



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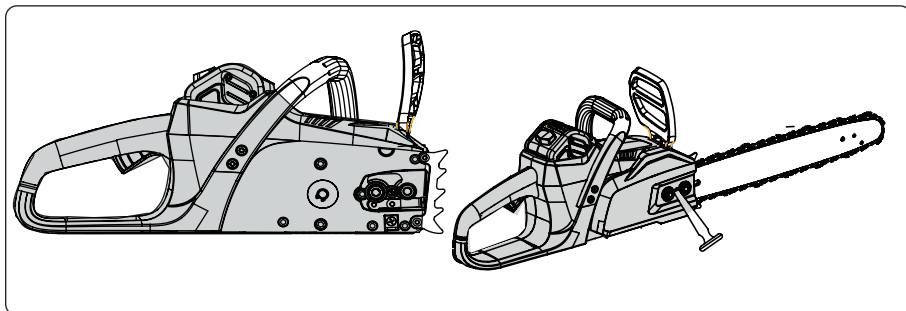
*NOTE: Make certain of direction of the chain.*

- Position the chain so there is a loop at the back of the bar.
- Hold the chain in position on the bar and place the loop around the sprocket.
- Make sure the bar hole fits well with bolt for saw chain tension.
- Replace the chain cover.

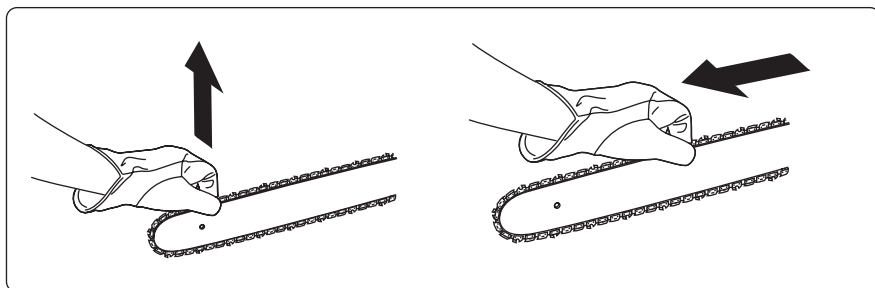


## MAINTENANCE

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- Turn the chain tensioner screw by the wrench clockwise until the saw chain is properly tensioned. The guide bar must then be pushed upwards, check chain tension again, do not tension the chain too tight.
- After the chain is well-tensioned, tighten the nuts again.



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**NOTE:** The saw chain is properly tensioned if, in the middle of the guide bar, it can be lifted 3mm to 4mm from the edge of the guide bar.

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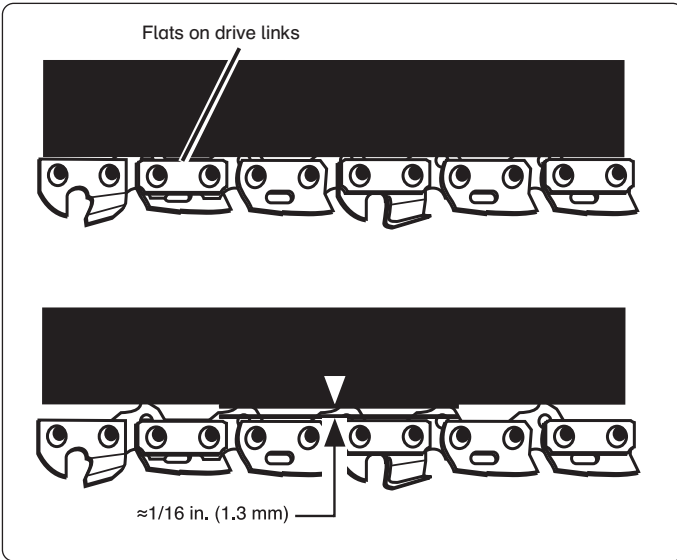
**NOTE:** If the chain is too tight, it will not rotate. Loosen the chain cover lock knob slightly and turn the chain tensioning knob 1/4 turn counterclockwise. Lift the tip of the guide bar up and retighten the chain cover lock knob. Ensure that the chain will rotate without binding.

# MAINTENANCE

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## ADJUSTING THE CHAIN TENSION

- Rotate the chain cover lock knob clockwise to secure. Re-tension the chain whenever the flats on the drive links hang out of the bar groove.



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### **⚠ WARNING**

Never touch or adjust the chain while the motor is running. The chain saw is very sharp. Always wear protective gloves when performing maintenance on the chain.

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### **⚠ WARNING**

A chain tensioned while warm may be too tight upon cooling. Check the “cold tension” before next use.

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*NOTE: During normal saw operation, the temperature of the chain increases. The drive links of a correctly tensioned warm chain will hang approximately 1/16 in. (1.3 mm) out of the bar groove.*

*NOTE: New chains tend to stretch; check the chain tension frequently and tension as required.*

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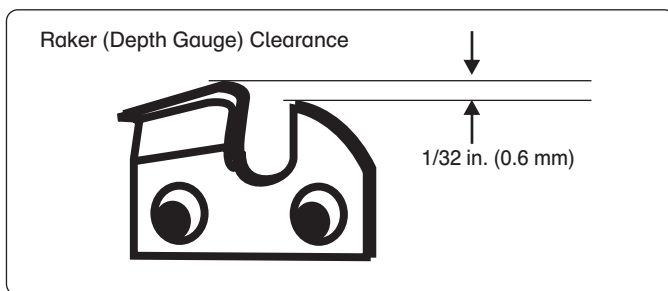
# MAINTENANCE

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## CHAIN MAINTENANCE

Use only a low-kickback chain on this saw. This fast-cutting chain provides kickback reduction when properly maintained. For smooth and fast cutting, maintain the chain properly. The chain requires sharpening when the wood chips are small and powdery, the chain must be forced through the wood during cutting, or the chain cuts to one side. During maintenance of the chain, consider the following:

- Improper filing angle of the side plate can increase the risk of severe kickback
- Raker (depth gauge) clearance.
- Too low increases the potential for kickback.
- Not low enough decreases cutting ability.
- If the cutter teeth hit hard objects such as nails or stones, or are abraded by mud or sand on the wood, have an authorized service center sharpen the chain.



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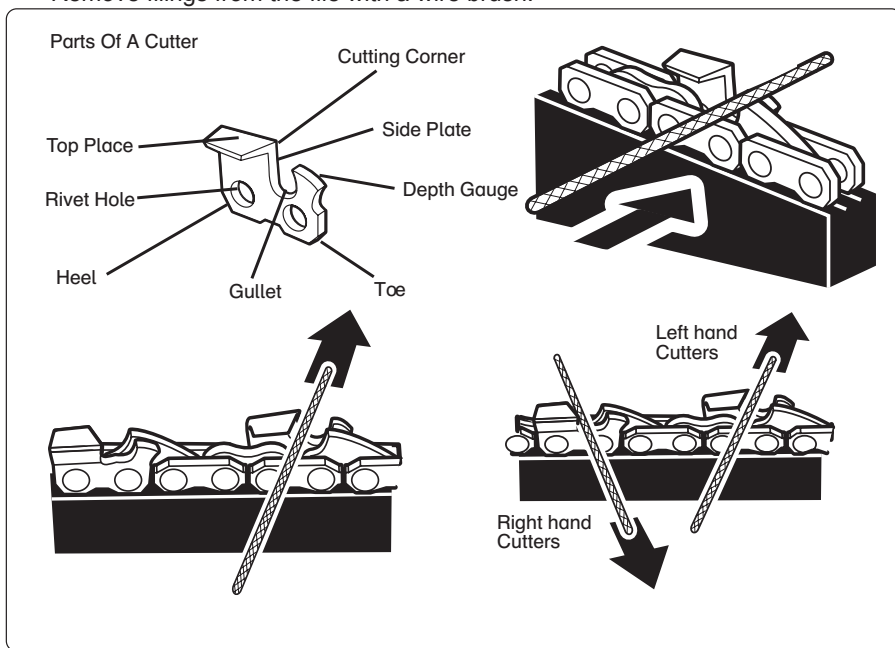
### NOTE:

- *Inspect the drive sprocket for wear or damage when replacing the chain. If signs of wear or damage are present in the areas indicated, have the drive sprocket replaced by an authorized service center.*
- *If you do not fully understand the correct procedure for sharpening the chain after reading the instructions that follow, have the saw chain sharpened by an authorized service center or replace with a recommended low-kickback chain.*

# MAINTENANCE

## SHARPENING THE CUTTERS

- Be careful to file all cutters to the specified angles and to the same length, as fast cutting can be obtained only when all cutters are uniform.
- Tension the chain prior to sharpening. Refer to Adjusting The Chain Tension.
- Use a 5/32 in. (4 mm) diameter round file and holder. Do all of your filing at the midpoint of the bar.
- Keep the file level with a top plate of the tooth. Do not let the file dip or rock.
- Using light but firm pressure. Stroke towards the front corner of the tooth.
- Lift the file away from the steel on each return stroke.
- Put a few firm strokes on every tooth. File all left hand cutters in one direction. Then move to the other side and file the right hand cutters in the opposite direction.
- Remove filings from the file with a wire brush.



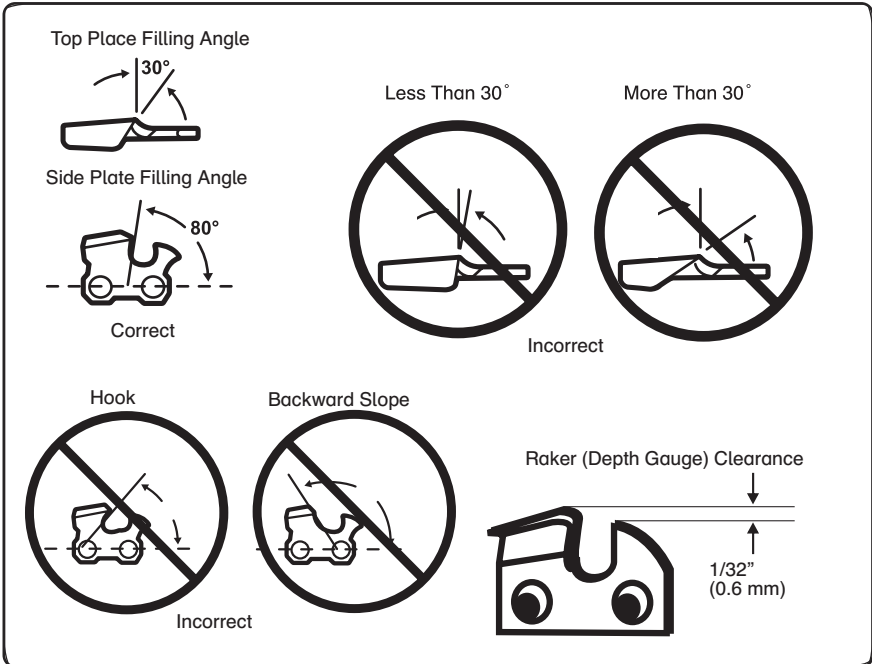
## **⚠** WARNING

- Make sure the battery is removed from the chain saw before you work on the saw.
- The saw chain is very sharp. Always wear protective gloves when performing maintenance to the chain to prevent serious personal injury.
- A dull or improperly sharpened chain can cause excessive motor speed during cutting, which may result in severe motor damage.

# MAINTENANCE

## TOP PLATE FILING ANGLE

- CORRECT 30° – file holders are marked with guide marks to align file properly to produce correct top plate angle.
- LESS THAN 30° – for cross cutting.
- MORE THAN 30° – feathered edge dulls quickly.



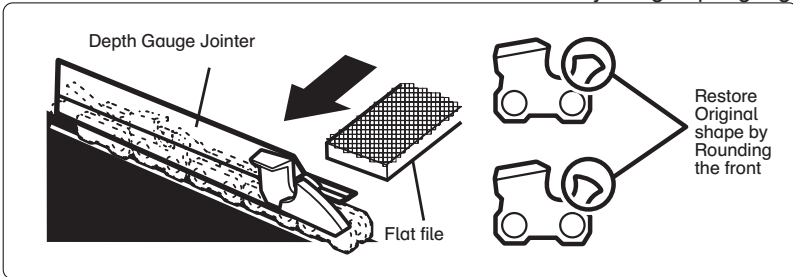
## SIDE PLATE ANGLE

- Correct 80° – Produced automatically if you use the correct diameter file in the file holder.
- Hook – “Grabs” and dulls quickly; increases the potential of kickback. Results from using a file with a diameter too small or a file held too low.
- Backward Slope – Needs too much feed pressure; causes excessive wear to the bar and chain. Results from using a file with a diameter too large or file held too high.

# MAINTENANCE

## SIDE PLATE ANGLE

- Maintain the depth gauge at a clearance of 1/32 in. (0.6 mm). Use a depth gauge tool for checking the depth gauge clearances.
- Every time the chain is filed, check the depth gauge clearance.
- Use a flat file and a depth gauge jointer to lower all gauges uniformly. Use a 1/32 in. (0.6 mm) depth gauge jointer. After lowering each depth gauge, restore original shape by rounding the front. Be careful not to damage adjoining drive links with the edge of the file.
- Depth gauges must be adjusted with the flat file in the same direction the adjoining cutter was filed with the round file.
- Use care not to contact cutter face with flat file when adjusting depth gauges.



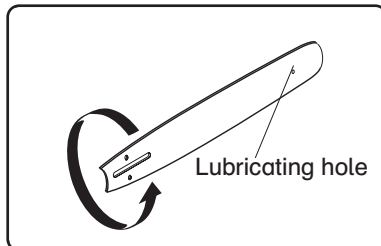
## MAINTAINING THE GUIDE BAR

Every week of use, reverse the guide bar on the saw to distribute the wear for maximum bar life.

The bar should be cleaned every day of use and checked for wear and damage. Feathering or burring of the bar rails is a normal process of bar wear. Such faults should be smoothed with a file as soon as they occur. A bar with any of the following faults should be replaced:

- Wear inside the bar rails that permits the chain to lay over sideways
- Bent guide bar
- Cracked or broken rails
- Spread rails

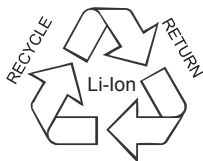
Lubricate guide bars weekly with a sprocket at their tip. Using a grease syringe, lubricate weekly in the lubricating hole. Turn the guide bar and check that the lubrication holes and chain groove are free from impurities.





# ENVIRONMENTALLY SAFE BATTERY DISPOSAL

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The batteries used in this pole saw's battery pack contain the following toxic and corrosive material: LITHIUM-ION.

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## **▲ W A R N I N G**

Toxic materials must be disposed of in a specific manner in order to prevent contamination of the environment. Before disposing of damaged or worn out Lithium-Ion battery packs, contact your local waste disposal agency or the local Environmental Protection Agency for information and specific instructions. Take the batteries to a local recycling and/or disposal center that is certified for disposal. If the battery pack cracks or breaks, whether it leaks or not, do not recharge it and do not use it. Dispose of it and replace it with a new battery pack.

**DO NOT ATTEMPT TO REPAIR IT!**

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Follow these instructions and to avoid damage to the environment:

- Cover the battery's terminals with heavy-duty adhesive tape.
- Do not attempt to remove or destroy any of the components of the battery pack.
- Do not attempt to open the battery pack.
- If a leak develops, the electrolytes that are released are corrosive and toxic. Do not get the solution in the eyes or on the skin, and do not swallow it.
- Do not place batteries in regular household trash.
- DO NOT incinerate batteries.
- DO NOT place batteries where they will become part of any waste landfill or municipal solid waste stream.
- Dispose of batteries at a certified recycling or disposal center.

# TROUBLESHOOTING

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<b>PROBLEM</b>	<b>CORRECTIVE ACTION</b>
Bar and chain running hot and smoking.	<ol style="list-style-type: none"><li>1. Tension chain. Refer to Chain Tension earlier in this manual.</li><li>2. Check oil tank.</li></ol>
Bar and chain running hot and smoking.	<ol style="list-style-type: none"><li>1. Re-tension chain. Refer to Chain Tension earlier in this manual.</li><li>2. Refer to Replacing the Bar and Chain earlier in this manual.</li><li>3. Inspect guide bar and chain for damage.</li></ol>
Motor runs, chain rotates but does not cut.	<ol style="list-style-type: none"><li>1. Sharpen chain.</li><li>2. Reverse direction of chain.</li></ol>

# LIMITED FOUR-YEAR WARRANTY

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GREENWORKS™ hereby warrants this product, to the original purchaser with **proof of purchase**, for a period of four (4) years against defects in materials, parts or workmanship. GREENWORKS™, at its own discretion will repair or replace any and all parts found to be defective, through normal use, free of charge to the customer. This warranty is valid only for units which have been used for personal use that have not been hired or rented for industrial/commercial use, and that have been maintained in accordance with the instructions in the owners' manual supplied with the product from new.

Battery and charger carry a two (2) year warranty against defects in workmanship and materials. Batteries must be charged in accordance with the operator's manuals directions and regulations in order to be valid.

## ITEMS NOT COVERED BY WARRANTY:

1. Any part that has become inoperative due to misuse, commercial use, abuse, neglect, accident, improper maintenance, or alteration; or
2. The unit, if it has not been operated and/or maintained in accordance with the owner's manual; or
3. Normal wear, except as noted below;
4. Routine maintenance items such as lubricants, blade sharpening;
5. Normal deterioration of the exterior finish due to use or exposure.

## GREENWORKS HELPLINE (1 888 90WORKS):

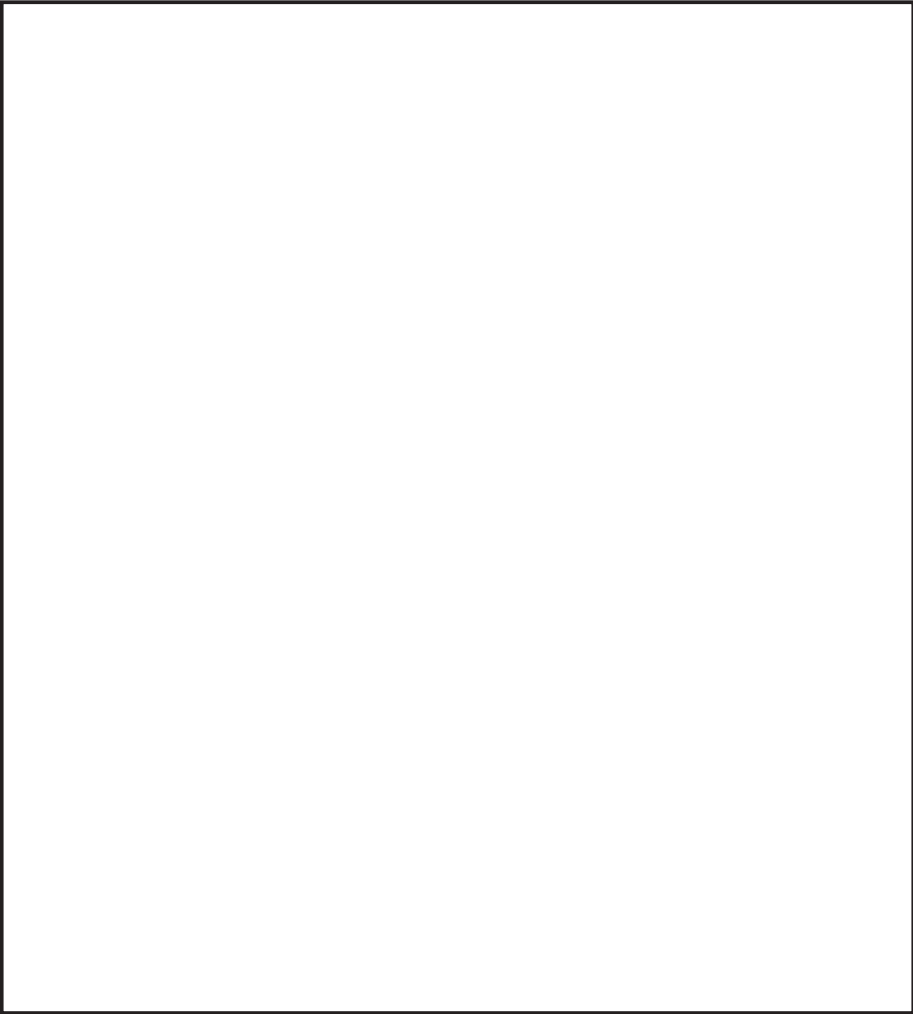
Warranty service is available by calling our toll-free helpline, 9am to 5pm EST. at **1-888-909-6757 (1-888-90WORKS)**.

## TRANSPORTATION CHARGES:

Transportation charges for the movement of any power equipment unit or attachment are the responsibility of the purchaser. It is the purchaser's responsibility to pay transportation charges for any part submitted for replacement under this warranty unless such return is requested in writing by GREENWORKS.

EXPLODED VIEW

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# PARTS LIST

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ITEM NO.	PART NO.	DESCRIPTION	QTY
1		Blower Tube	1
2		Air Deflector	1
3		Duct	1
4		Fan	1
5		Cruise Knob	1
6		Trigger	1
7		Right Housing	1
8		Switch	1
9		PCBA	2
10		Motor	2
11		Nut	2
12		Sleeve	1
13		Cord Sleeve	1
14		Plug	1
15		Motor Housing	1
16		Inlet cover	1
17		Left Housing	14



**TOLL-FREE HELPLINE: 1-888-90WORKS (888.909.6757)**

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